ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

This certification must accompany any document submitted to Illinois EPA in accordance with the corrective action requirements set forth in a facility's RCRA permit. The original and two copies of all documents submitted must be provided.

1.0 FACILITY IDENTIFICATION

Name: WRB Refining LP - Wood River Refinery

Street Address: 900 South Central Ave.

City: Roxana, IL 62084

County: Madison

Site No. (IEPA): 1191150002

Site No. (USEPA): ILD 080 012 305

2.0 OWNER INFORMATION

Name: Not Applicable

Mailing Address:

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC d/b/a Shell Oil Products US

17 Junction Drive, PMB #399

Glen Carbon, IL 62034

Contact Name:

Kevin Dyer

Contact Title:

Principal Program Manager

Phone No.:

618-288-7237

4.0 TYPE OF SUBMISSION (check applicable item and provide requested information, as applicable)

☐ RFI Phase I Workplan/Report
☐ RFI Phase II Workplan/Report
☐ CMP Report; Phase _____
☒ Other (describe):
Soil Vapor Sampling and SVE Monitoring Report – 4th Quarter 2012
Date of Submittal February 1, 2013

IEPA Permit Log No. B-43R
Date of Last IEPA Letter on Project 3/14/12
Log No. of Last IEPA Letter on Project B-43R-CA-25
Does this submittal include groundwater information: ☒ Yes ☐ No

5.0 DESCRIPTION OF SUBMITTAL: (briefly describe what is being submitted and its purpose)

Soil Vapor Sampling and SVE Monitoring report for the 4th quarter 2012 in the project area located in the Village of Roxana.

6.0 DOCUMENTS SUBMITTED (identify all documents in submittal, including cover letter; give dates of all documents)

Cover letter, RCRA Corrective Action Certification and Soil Vapor Sampling and SVE Monitoring Report – 4th Quarter 2012

7.0 CERTIFICATION STATEMENT - ***(This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below).*** The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7.1 **OWNER/OPERATOR CERTIFICATION** (Must be completed for all submittals. Certification and signature requirements are set forth in 35 IAC 702.126.) All submittals pertaining to the corrective action requirements set forth in a RCRA Permit must be signed by the person designated below (or by a duly authorized representative of that person):

1. For a Corporation, by a principal executive officer of at least the level of vice-president.
2. For a Partnership or Sole Proprietorship, by a general partner or the proprietor, respectively.
3. For a Governmental Entity, by either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____ _____ (Date)

Title: _____

Operator Signature: Kevin E Adgate 01/22/13 (Date)

Title: Principal Program Manager

7.2 **PROFESSIONAL CERTIFICATION** *(if necessary)* - Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Professional's Signature: Robert B Billman

1/30/13
Date:

Professional's Name: Robert B. Billman

Professional's Address: URS Corporation

1001 Highlands Plaza Drive West

St. Louis, MO 63110

Professional's Phone No.: 314-743-4108

Professional's Seal:



7.3 **LABORATORY CERTIFICATION** *(if necessary)* - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory Eurofins Air Toxics, Inc.

Signature of Laboratory Responsible Officer

1-4-13
Date

Heidi Hayes Technical Director
Name and Title of Laboratory Responsible Officer

Mailing Address of Laboratory

180 Blue Ravine Rd. Suite B
Folsom, CA 95630

URS

February 1, 2013

Mr. Steven F. Nightingale, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Subject: **Soil Vapor Sampling and SVE Monitoring Report – 4th Quarter 2012**
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R

Dear Mr. Nightingale:

On behalf of Shell Oil Products US, URS Corporation is submitting the enclosed report for your review. This report includes information required by Condition 3 of Illinois Environmental Protection Agency's (IEPA) letter dated August 5, 2010, and Condition 13 of IEPA's letter dated September 13, 2012.

If you have any questions during your review, please contact Kevin Dyer, SOPUS Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or me at robert.mooshegian@urs.com (314/743-4106).

Sincerely,
URS Corporation, on behalf of Shell Oil Products US

Kelly Hurst
Senior Environmental Scientist

Robert Mooshegian, CHMM
Senior Project Manager

Enclosures: RCRA Corrective Action Certification and Report (original plus 2 copies)

Cc: Kevin Dyer, SOPUS
Marty Reynolds, Village of Roxana (Repository)
Eric Petersen, ConocoPhillips
David Webb, IDPH
Jim Moore, IEPA, Springfield
Repository - Roxana Public Library
Gina Search – IEPA, Collinsville

1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
Phone: 314.429.0100
Fax: 314.429.0462

REPORT

SOIL VAPOR SAMPLING AND SVE MONITORING– 4TH QUARTER 2012

Roxana, Illinois

Prepared for:

Shell Oil Products US
17 Junction Drive
PMB#399
Glen Carbon, Illinois 62034

February 2013

URS Corporation
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project 21562735

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Shell Oil Products US (SOPUS) has been conducting a subsurface investigation in the Village of Roxana in the area generally bounded by the alley north of East First Street, the Roxana Public Works Yard, Illinois Route 111 and the property boundary (a/k/a West Fenceline) of the WRB Refining, LP (WRB)[1] Wood River Refinery (WRR) (**Figure 1**). Additional investigation has been conducted inside the WRR; this work was conducted in cooperation with WRB/Phillips 66 (P66)[2]. For the purposes of presentation in this report only, the combined area is collectively referred to as the "Investigation Area." The Investigation Area includes a portion of a residential area in the Village of Roxana, Roxana Public Works Yard, and the adjoining portions of the WRR. For the purposes of this report, the term "Village" is used to denote the residential area generally bounded by the alley north of East 1st Street (north), 8th Street (south), Chaffer Street (east) and Illinois Route 111 (South Central Avenue) (west).

SOPUS has been investigating and delineating soil vapor in the Investigation Area through the installation, development, and sampling of vapor monitoring ports (VMPs). Vapor monitoring locations (VMP-1 through VMP-16) were installed based on a work plan submitted to the Illinois Environmental Protection Agency (IEPA) on behalf of SOPUS on January 21, 2009. IEPA approved the work plan with conditions on May 12, 2009. The results of the vapor investigation and delineation efforts were presented in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report*, dated February 18, 2010 (URS, 2010a). Based on recommendations contained in that report, an additional four vapor monitoring ports were installed, developed, and sampled at one existing (VMP-3) and three new vapor monitoring locations (VMP-17 through VMP-19) in the Spring/Summer 2010, with results presented in the *Addendum to February 2010 Report – Supplemental Investigation Activities,* dated September 20*,* 2010 (URS, 2010b).

IEPA provided comments to the February 18, 2010 report in a letter to SOPUS dated August 5, 2010. In particular, Comment Number 3 required quarterly soil vapor sampling and reporting, and Comment Number 2 described the need to further delineate the extent of soil vapors beneath the area. Six VMPs (VMP-20 through VMP-25) were installed and added to the quarterly sampling program beginning with 1st Quarter 2011 (1Q11). The locations of vapor monitoring points in the soil vapor sampling network are presented on **Figure 2**.

[1] WRB, formed January 1, 2007, is a 50/50 joint venture between ConocoPhillips (COP) and EnCana US Refineries, LLC (now known as Cenovus Energy, Inc.).

[2] ConocoPhillips Company announced the separation of the Refining and Marketing business from the Exploration & Production business on July 14, 2011. The separation included an ownership change as well as a name change that became effective May 1, 2012. Phillips 66 is now the operator of the WRB WRR.

IEPA provided further comments in a March 16, 2011 letter (IEPA, 2011) to SOPUS approving the *Soil Vapor Extraction (SVE) Pilot Test Workplan*. In particular, Comment Number 2 required that quarterly soil vapor sampling continue at the 25 VMP locations, and Comment Number 9 requested an updated report, including a discussion of the geology, extent of groundwater impact, and distribution of impacted soil vapor. These items/comments were included in the 1Q11 Soil Vapor Report (URS, 2011a), and have been updated for this report.

As a result of a meeting between SOPUS and the IEPA on February 8, 2012, the quarterly soil vapor sampling program was expanded to include six additional soil VMPs (VMP-31, VMP-32, and VMP-42 through VMP-45). VMP-31 and VMP-32 were installed in 2nd Quarter 2011 (2Q11) to monitor soil vapor during operation of the Internal Combustion Engines (ICE) located near 4th and Chaffer Street. VMP-42 through VMP-45 were installed during the 3rd Quarter 2011 (3Q11) and 4th Quarter 2011 (4Q11) in conjunction with the SVE System installation to monitor soil vapor concentrations. Monitoring of these VMPs commenced with the 2nd Quarter 2012 (2Q12) sampling event.

Based on the September 13, 2012 letter (IEPA, 2012), VMP-29, VMP-30, and VMP-41 located within the Roxana Public Works yard will be included in the quarterly sampling program. These VMPS were added to the quarterly sampling program during 2Q12 based on a draft of the IEPA, 2012 letter. VMP-29 and VMP-30 were installed to monitor the SVE pilot test within the Roxana Public Works Yard in 2Q11. VMP-41 was installed during the 3Q11 in conjunction with the SVE System installation to monitor soil vapor concentrations within the Roxana Public Works Yard. The locations of these VMPs in the soil vapor sampling network are presented on **Figure 2**. Additional VMPs (VMP-47 thru VMP-55) were installed during the 4th Quarter 2012 (4Q12) in the Village. Monitoring of these VMPS will commence in the 1st Quarter 2013 (1Q13) sampling event.

In the same IEPA, 2012 letter, IEPA also requested development of a quarterly report documenting the results of monitoring and remedial efforts associated with operating the SVE system. These results are presented in **Section 5** of the current 4Q12 Soil Vapor Sampling SVE Monitoring report.

This section summarizes the current understanding of the Investigation Area geology and hydrogeology.

2.1 GEOLOGY

The Investigation Area is located approximately 1.5 miles east of the Mississippi River within the American Bottoms floodplain. The surface topography is generally flat; however it slopes downward to the west-southwest in the southwestern portion of the Village, with a total drop in elevation of approximately 15 feet across the area.

The ground surface in the Village within the Investigation Area, where not developed with structures, is primarily grass covered with paved (i.e. chip and seal, asphalt, etc.) alleys and streets. Beneath any man-made fill material, the subsurface conditions generally consist of silty clay underlain by sands to the depths investigated.

Subsurface stratigraphy within the Investigation Area consists of the following materials, from the ground surface down:

- Fill - (mainly clay, some gravel and cinders, etc.) Extends from the surface to approximately six feet below ground surface (bgs).
- Clay/Silt - Primarily silty clay. Where present, the clay generally extends from the base of the fill to approximately 12 feet bgs.
- Sand - Consisting primarily of fine to medium grained (which coarsens with depth) sand with some silt and clay, especially at the shallower depths. The sand begins at the base of the clay (or base of the fill if the clay is not present) and extends to the total depth of the borings.
- Discontinuous lower permeability lenses of clay with some silt and sand are occasionally present. These lenses vary in thickness from 1 inch to a few feet and do not appear to be laterally (or vertically) extensive.

Cross-sections depicting the underlying geology were previously presented in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report*, dated February 18, 2010 (URS, 2010a). These cross-sections were developed based on information provided on cone penetration test (CPT) logs and soil boring logs. A modified cross-section presenting analytical data is discussed in **Section 4.3** of this report.

2.2 HYDROGEOLOGY

Groundwater in the sand underlying the Investigation Area is the primary source for large volume water production in the area (e.g., industrial and municipal supply). Prior to development in the area, the natural movement of groundwater was toward the west (toward the Mississippi River). Since development in the area, groundwater pumping has altered the groundwater flow in the area to flow toward nearby pumping wells (e.g. WRR, BP, etc.).

The water table encountered during 4Q12 was at a depth of approximately 27 to 45 feet bgs (approximate elevation 399 to 403 feet above sea level). The variation in depth of groundwater from the ground surface is partially due to a change in surface elevation across the study area. As a result, there is generally a 15 to 30 foot thick vadose (unsaturated) zone in the sand. Groundwater gauging data from 4Q12 indicates that the groundwater has dropped approximately 1 to 2 feet along the WRR West Fenceline since 3rd Quarter 2012 (3Q12). Water level measurements collected during the 4Q12 groundwater gauging event and historical water level measurements collected over the past three years are provided in **Table 1**. Depth to product (if present) and depth to water were noted in electronic format using Panasonic Toughbook® technology (Toughbook®) and on groundwater field gauging sheets.

There are discontinuous low permeability clay lenses above the water table (approximately 20 feet bgs) mixed with silt and sand. These clay lenses are isolated and limited in occurrence.

The potentiometric surface observed during the 4Q12 comprehensive groundwater monitoring well gauging (**Figure 3**) illustrates groundwater flow within the Village and WRR. **Figure 4** provides the groundwater potentiometric surface for the Investigation Area with respect to the deepest vapor ports. The gauging results indicate that some of these vapor ports were submerged beneath the water table during this event.

The 4Q12 soil vapor sampling event was performed in accordance with applicable URS site-specific Standard Operating Procedures (SOPs) that incorporate previous IEPA comments, conditions, and/or modifications. The 4Q12 VMP sampling event was conducted October 3-26, 2012.

3.1 VAPOR MONITORING PORT SAMPLING

The soil vapor sampling network currently consists of 46 VMP locations (**Figure 2**), of which 34 locations are currently being utilized for quarterly sampling. VMPs are generally screened at four depths[3] at each location. The individual VMPs are labeled and color-coded in the field from shallow to deep by using the color scheme of yellow (first interval), blue (second interval), green (third interval), and red (fourth interval). Additional VMPs installed as part of a supplemental sampling event in 2nd Quarter 2010 (2Q10) are color-coded white (10-foot depth). Vapor ports installed during 3Q11 and 4Q11 do not have the shallow (5-foot depth) port included, and begin with the blue interval port. Soil VMP depths are provided in **Table 2**.

VMP Sampling

VMP sampling activities were attempted at each utilized location within the Investigation Area. The sampling was performed in accordance with SOP No. 44R3 – Soil Vapor Purging and Sampling and ASTM D-7663-12.

Prior to VMP sampling, an initial stainless-steel canister vacuum check was performed. A designated pressure gauge provided by the laboratory was attached to the stainless-steel canister inlet, and the stainless-steel canister valve was opened completely. The pressure gauge reading was recorded as "Initial Vacuum Reading" on the stainless-steel canister tag and the field form. This ensured that the canister showed a vacuum of approximately 26 to 30 inches of mercury (Hg). If the canister displayed an initial vacuum of less than 26 inches of Hg, the canister was set aside and returned to the laboratory.

In addition, each flow controller was subjected to an isolated vacuum check to ensure that connectors did not leak. This was conducted by attaching a plug to one end of the flow controller and a barbed connector to the other. A 15 mL hand pump with a vacuum gauge was then attached to the barb. The hand pump evacuated the air inside the flow controller until a vacuum of at least 10 inches Hg was achieved. If the vacuum change over five minutes was equal to or less than 0.5 inches of Hg, the controller was considered acceptable for sampling use.

The following steps were used to collect each VMP sample:

[3] With the exception of single shallow ports at VMP-17, 18, 19, three ports at VMP 41 through VMP 45, and five ports at VMP-3.

- Upon arrival at a sampling location, the sampling crew would open the vapor port vault to check integrity of each individual soil VMP. This included checking that each port was closed with either a Swagelok® stainless-steel reducer and plug or a 4-way stopcock in place, and each VMP was properly labeled to identify the proper depth.
- The sample train was set up as shown in the photo below. A hose barb connector was connected directly to the monitoring port using compression ferrule connections. The sample train was then attached through Tygon® tubing. A flow controller, provided by the laboratory, was then connected to the stainless-steel canister inlet. Flow controllers were not reused during the sampling event. Each flow controller is pre-set by the laboratory to collect the sample over a half-hour period. For a 1-Liter stainless-steel canister, one half-hour is a standard collection time (~28 ml/min). Once the sample train was assembled, a vacuum leak check was performed in accordance with SOP No. 44R3 – Soil Vapor Purging and Sampling.
- An enclosure was then placed over the VMP and assembled sample train as shown in the photo below. The enclosure has openings for:
  - The introduction of tracer gas (i.e., helium);
  - Pressure relief to the atmosphere and access for a tracer gas monitoring device;
  - Tygon® tubing to connect to the peristaltic pump for Valve #1 (out) and Valve #2 (out and in).



- The enclosure has sufficient glove access to open or close all valves within. The enclosure was sealed to the ground at each location with a hydrated bentonite seal.
- Helium gas was introduced into the enclosure until the atmosphere reached a concentration of approximately 50% Helium; the regulator on the helium tank was manually controlled to maintain that range.
- Three well volumes were purged from each VMP prior to sampling using a 15 mL hand pump[4]. If the pump gauge held a vacuum, the VMP was presumed to be saturated with water and no sample was collected. VMP water saturation was compared against the groundwater measurements from the initial gauging event for confirmation.
- After purging was completed a Tedlar bag sample was collected using a peristaltic pump. A Dielectric Technologies MGD-2002 field analyzer was then used to detect possible helium readings within the Tedlar bag sample. This check verifies the vacuum check for the sample train and integrity of the sample port. If the helium reading was $\geq$10% concentration of the helium in the enclosure, the Tedlar bag sample was additionally analyzed using a Landtec landfill gas detector to obtain a direct methane reading. The presence of methane can cause a false positive helium reading on the MGD-2002 field analyzer.
- Once the initial helium leak check was completed, the stainless-steel canister valve was opened to collect a sample for approximately 30 minutes or until a vacuum gauge reading of 5 inches Hg was observed. After sample completion, the stainless-steel canister valve was closed (isolating it from the sample train) and soil vapor was bypassed to the second Tedlar bag sample.
- A second Tedlar bag was filled following the completion of the stainless-steel canister sampling. Soil vapor readings were taken from the Tedlar bag sample for total volatile organics with a photoionization detector (PID) and a Thermo Scientific TVA 1000 Vapor Analyzer - Flame Ionization Detector (FID); and for carbon dioxide (CO_2), methane (CH_4), lower explosive limit (LEL), and oxygen (O_2) with a Landtec GEM 2000 landfill gas meter. Readings were also obtained and recorded for helium with a MGD-2002 field analyzer. This check was used to verify the sample train integrity during and at the completion of sampling. If the helium readings were

[4] The purge volume was calculated using the following assumptions: vapor port tubing (1/8-in diameter): 2.41 ml/foot (single volume) and sample train assembly (1/4-in diameter): 9.65 mL/foot (single volume).

≥10% of the concentration of the helium in the enclosure, a third Tedlar bag sample was collected.

- At the completion of sampling, the stainless-steel canister and flow controller were removed and separated from the sample train and a final vacuum reading was taken with a designated pressure gauge provided by the laboratory. The stainless-steel canisters were then maintained in a safe location to minimize temperature change and protect from damage prior to shipping.
- At the completion of sampling, either the VMP plug was reinstalled or the 4-way stopcock was closed to maintain port integrity.
- Field data pertaining to canister identification data (ID), start and finish time, initial and final vacuum readings, purge volumes, and leak checks for each VMP was recorded electronically using a touchpad in a Soil Vapor Sampling – Canister Sampling Data database. Data from portable field analyzers, such as, a PID, a FID, a landfill gas meter, and a helium gas detector were recorded electronically in the field by using a touchpad in a Soil Vapor Sampling – Tedlar Sampling Data database.
- Field duplicates were collected by including an additional T-connection in the sample train and attaching a second stainless-steel canister with a separate flow controller. Both the original and duplicate samples were started at the same time.

Field data forms are included for the bag sampling data in **Table 3**. Field measurements from this event and previous events are presented on **Table 3.**

Additional Notes on VMP Sampling

Saturated VMP Screens - The groundwater monitoring well gauging results indicated that some of the VMP screens were submerged beneath the water table during 4Q12. However, purging was attempted at each of the ports with a 15 mL hand pump to verify the VMP screens were submerged.

A total of five 4th interval VMPs held a vacuum or produced water when purged with a 15 mL hand pump indicating the VMPs were most likely submerged beneath the water table. One 2nd interval VMP was also found to be submerged. VMPs that were submerged and could not be sampled during 4Q12 are identified on **Figures 5 and 6**.

Resamples – VMP-12-25 was resampled on October 25, 2012 after the sample collected on October 24, 2012 yielded a final vacuum of zero (0) inches of Hg. VMP-24-5 was resampled on October 19, 2012 after the sample collected on October 9, 2012 was received at the laboratory

with lower than expected final vacuum. The field data for these samples are provided on **Table 3**.

Helium Leaks – Eight VMPs failed to pass the helium leak check in the field when sampling was initially attempted. Sampling was reattempted at VMP-1-23.5, VMP-2-5, VMP-3-5, VMP-5-5, VMP-12-11.5, VMP-22-18, VMP-31-5, and VMP-31-10. Valid samples were obtained, except for VMP-3-5. The field data for these samples are provided on **Table 3**.

3.2 HEALTH & SAFETY, DECONTAMINATION, AND INVESTIGATION DERIVED WASTE

Health & Safety

The quarterly sampling activities were performed and governed by the *Roxana / Route 111, WRR, and Rand Avenue Investigation and Remediation Health and Safety Plan,* dated October 2012 (URS, 2012a), as prepared by URS.

Prior to beginning site work and at the start of work each day, a daily safety meeting was held. The purpose of this meeting was to discuss the day's planned activities and to address any potential health and safety concerns. As a part of the daily safety meeting, job hazard analyses (JHAs) were reviewed to address task specific safety concerns.

URS field personnel primarily wore U.S. Environmental Protection Agency (USEPA) modified Level D personal protective equipment (PPE), which included hard hat, steel-toed boots, safety glasses, etc. In addition, work within the WRR was performed wearing flame retardant clothing (FRCs) per WRR requirements (in areas where required).

A PID with a 10.6 electron volt (eV) probe, combustible gas indicator (CGI), UltraRAE with benzene specific measuring tubes, and individual hydrogen sulfide gas detectors (for locations inside WRR) were used during the field activities to monitor air quality. Field instruments were calibrated prior to use each day in accordance with the manufacturer's specifications.

Decontamination

Field personnel and equipment underwent decontamination procedures to ensure the health and safety of those present, to maintain sample integrity, and to minimize cross contamination. Non-disposable/reusable sampling equipment (e.g., compression fittings) was decontaminated prior to the collection of each analytical sample by spraying with Alconox or Liquinox and distilled water. For vapor sampling equipment, a 15 mL hand pump was attached to the sampling apparatus and ambient air was pumped into the sampling apparatus to remove any internal dust particles or moisture. Personnel and small equipment decontamination was performed at the sample locations.

Investigation Derived Waste

Investigation derived waste (IDW) for this sampling event included PPE and expendable materials (e.g., gloves and tubing), which has a low probability of impact. The expendable materials were collected in trash bags and disposed with municipal waste.

3.3 SAMPLE HANDLING AND LABORATORY TESTING

Sample Handling

Stainless-steel canisters were labeled with a sample ID, site name, sampler initials, sample date and time, the parameters that were to be analyzed, and pre- and post- vacuum readings. After collection, the samples were logged on a chain of custody (COC) form and packaged in a UN certified box to prevent damage during shipment. The samples were then delivered under the proper COC documentation to the laboratory. Due to the potential flammable nature of the vapor in the stainless-steel canisters, some soil vapor samples were shipped as hazardous materials according to applicable International Civil Aviation Organization (ICAO) regulations.

Laboratory Testing

Eurofins Air Toxics, Inc. (Eurofins) of Folsom, California conducted the laboratory testing and the following test methods were utilized during this scope of work:

- Volatile Organic Compounds (VOCs) via Modified USEPA Total Organic-15 (TO-15) (including butane and isopentane) for soil vapor, and
- Natural gases (defined for purposes of this report as oxygen, nitrogen, carbon monoxide, methane, carbon dioxide, ethane, and ethene) via Modified ASTM D-1946 + Helium for soil vapor.

URS worked with the laboratory to attain reporting limits for compounds that have screening criteria so that, to the extent possible, they were less than the screening criteria. In some cases, this necessitated reporting results between the method detection limit (MDL) and reporting limit (RL). Although results reported in this range are "J"-flagged as estimated, these data may be beneficial in cases where analytes would otherwise be reported as non-detect at RLs above screening levels. The laboratory provided URS with a list of their "base" RL capability for target analytes. Sample RLs are a product of base RL, pressurization dilution factor, and analytical dilution factor. Thus the sample RL will increase with increases in dilution factor. Results that were reported below the RLs but above the MDL were "J"-flagged as estimated concentrations by the laboratory.

3.4 DATA QUALITY REVIEW AND DATA MANAGEMENT

Laboratory data were provided in electronic form, and analytical data were independently reviewed and qualified by URS. One hundred percent of the data were subjected to a data quality review (Level 3 review). Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008). Specific criteria reviewed included sample receipt condition and holding times, method blanks, surrogate spike recoveries, laboratory control samples, results reported from dilutions, and field duplicate results. The laboratory assigned data qualifiers on the basis of their quality control or to indicate sample analysis information (e.g., dilutions). Data qualifiers were also added by URS, as appropriate, and are included on the data tables and laboratory result pages. Laboratory data reports along with data reviews are included in **Appendix A**.

The screening values used were presented in IEPA's proposed amendments to Tiered Approach to Corrective Action Objectives (TACO) Title 35 – Part 742; Appendix B, Table H: Tier 1 Soil Gas and Groundwater Remediation Objectives for the Indoor Inhalation Exposure Route – Diffusion and Advection for soil vapor dated November 9, 2010 and are shown on **Table 4.** Not all TO-15 Method constituents have TACO screening criteria.

Field data and documentation collected as part of this scope of work became part of the project file. URS maintains the files for the site and the database management system.

The following documentation was completed and supplements the COC records, excluding SVE system data which are described in **Section 5**:

- Field logbooks;
- Groundwater field gauging sheets;
- Soil vapor sample collection sheets;
- Field sample collection data via electronic Toughbook®; and
- Safety documentation

4.1 DATA QUALITY REVIEW RESULTS

A total of 117 investigative and 12 field duplicate samples were collected from VMPs for analysis of VOCs (TO-15 analytes) and natural gases. Compounds qualified by URS due to method blank contamination, field duplicate results, and quality control sample recoveries are specified in the data reviews (**Appendix A**). Based on method blanks, laboratory control sample recoveries, results reported from dilutions, and field duplicate results, soil vapor results reported for the analyses performed were accepted for their intended use.

4.2 SOIL VAPOR ANALYTICAL RESULTS

The following TO-15 analytes were detected at concentrations at or above the reporting limit in soil vapor during the 4Q12 sampling event:

TO-15 Detections

Acetone	Isopropylbenzene (Cumene)
Benzene	4-Methyl-2-pentanone
Butane	Methyl tert Butyl Ether (MTBE)
2-Butanone	2-Propanol
Carbon disulfide	Tetrachloroethene
Chloroform	Tetrahydrofuran
Cyclohexane	Toluene
Ethanol	*Trans-1,3-Dichloropropene*
Ethylbenzene	Trichlofluoromethane
4-Ethyltoluene	1,3,5-Trimethylbenzene
Heptane	2,2,4-Trimethylpentane
Hexane	m,p-Xylene
Isopentane	o-Xylene

Italicized analytes were detected at or above the reporting limit for the first time this quarter. Additionally, several compounds were detected at concentrations estimated below the reporting limit.

Cumulative tabular summaries of the analytical results for the Village are presented in **Table 5** and the Roxana Public Works Yard and WRR are presented in **Table 6.** Analytical results were compared to the previously mentioned screening values. Sample results from VMP-1 through VMP-9, VMP-18 through VMP-24, VMP-31, VMP-32, and VMP-42 through VMP-45 (located near residences in the Village) were compared against the proposed residential screening criteria. Samples from VMP-10 through VMP-17, VMP-25, VMP-29, VMP-30, and VMP-41 (located at the Public Works Yard or WRR) were compared against the proposed industrial/commercial screening criteria. A cumulative tabular summary of the results for natural gases are presented in

Table 7. The laboratory analytical reports for the soil vapor samples collected during 4Q12 sampling event can be viewed in **Appendix A.**

Benzene was selected as the key analyte to characterize soil vapor, in the paragraphs below.

Village

Benzene detected concentrations from locations within the Village ranged from an estimated 0.00099 mg/m^3 (VMP-24-10) to 47 mg/m^3 (VMP-3-39). The results of screening for samples collected in the Village against the proposed residential screening criterion indicate that six of the sample locations had at least one port with a benzene concentration above the proposed residential screening criterion (0.37 mg/m^3) during this sampling event. The cumulative results for benzene in soil vapor for samples collected in the Village are depicted on **Figure 5**.

Analytical results also identified an exceedance of the proposed residential screening criterion for m,p-xylene at VMP-4-39. Exceedance of m,p-xylene has been observed in prior sampling events.

Roxana Public Works Yard

Benzene concentrations from locations within the Roxana Public Works Yard ranged from an estimated 0.0015 mg/m^3 (VMP-11-29) to 9,400 mg/m^3 (VMP-14-20 and VMP-14-29). Samples from at least one port at four of the locations within the Roxana Public Works Yard exceeded the proposed commercial/industrial screening criterion (2.8 mg/m^3) for benzene. The cumulative results for benzene in soil vapor for samples collected in the Roxana Public Works Yard are depicted on **Figure 6**.

WRR

Benzene concentrations from the locations sampled within the WRR ranged from an estimated 0.0098 mg/m^3 (VMP-12-11.5) to 1,200 mg/m^3 (VMP-12-39). Samples from at least one port at the two locations within the WRR exceeded the proposed commercial/industrial screening criterion (2.8 mg/m^3) for benzene. The cumulative results for benzene in soil vapor for samples collected in the WRR are depicted on **Figure 7**.

Natural Gas Data

A summary of the natural gas results is presented in **Table 7.** Natural gas data indicate that the concentration of methane increases from shallow to deep sample depths, but oxygen concentrations decrease from shallow to deep sample depths (methane and oxygen are generally inversely correlated in soil vapor). Higher oxygen levels (>5%) with lower methane levels indicate an environment capable of supporting aerobic biodegradation (Ririe et al., 1998).

Oxygen levels appear to be increasing in VMPs closer to the SVE system (e.g. along Chaffer Street) in the Village.

4.3 CONCEPTUAL SITE MODEL

Vapor Intrusion

The primary concern for shallow soil gas is the potential for intrusion through basement and/or building slabs. In September 2011, SOPUS began installation of a full scale SVE system to address the source of these vapors. The system became operational on January 31, 2012 following the completion of the 1Q12 sampling effort. The objective of the SVE system is to mitigate vapors along the West Fenceline of the WRR and in the vicinity of the Roxana Public Works Yard. Construction of the Roxana Public Works Yard portion of the SVE system was completed during 4Q12, and this portion became operational on December 3, 2012. Refer to **Section 5.1** for further discussion on SVE system operation. **Figure 8** presents a cross-section along Chaffer Street with a vertical distribution of the benzene concentrations superimposed.

At most locations, oxygen is present in the shallow depths and little or no aromatic hydrocarbons (e.g., BTEX) are present. Carbon dioxide levels are relatively high throughout the soil column at many locations, which supports that degradation of petroleum hydrocarbons is occurring via aerobic biodegradation. There is up to 30 feet of open vadose zone which allows for biological degradation of constituents in soil vapor as they slowly diffuse upwards.

C Tech Development Corporation's Environmental Visualization System PRO, Version 9.52 (EVS-PRO) was used to model the estimated distribution of benzene in the soil vapor. **Figure 9, Figure 10,** and **Figure 11** present a horizontal distribution of benzene at 5, 10, and 25 feet bgs, respectively.

Groundwater Monitoring Well Gauging and Sampling

The results are presented in the *Interim Groundwater Monitoring Program – 4th Quarter 2012* report (URS, 2012b) **Figure 12** presents the estimated distribution of dissolved phase benzene in the groundwater. A groundwater analytical profile was conducted at GWP-28 (BP Property) on October 9, 2012. The *Proposed Groundwater Monitoring Well Installation Plan* based on the analytical results for GWP-28 dated November 27, 2012 was submitted to IEPA (URS, 2012d). Light non-aqueous phase liquids (LNAPL) thicknesses observed during the 4Q12 comprehensive monitoring well gauging is presented in **Figure 13**.

This is the first quarterly report provided to IEPA related to SVE system as requested in the approval letter from IEPA, 2012 (Condition #13). As such, the discussion in this section will address operation of the SVE system from start-up through the end of the most recent quarter.

As presented in the June 2011 *Conceptual/Final Design Report* (URS, 2011b) and the May 2012 *SVE System Construction Completion Report* (URS, 2012c), URS designed and constructed a SVE system along the West Fenceline and within the Public Works Yard. The SVE system was installed to reduce the potential for vapors from LNAPL and impacted soil and groundwater within WRR to migrate into the Village.

The SVE system consists of 34 SVE wells, 25 of which are located along the West Fenceline, three are located in the Village along East 4th Street west of Chaffer Avenue, and 6 are located in the Public Works Yard. The SVE wells are connected via 4-inch piping to vapor/liquid separators (VLS) and a rotary lobe positive displacement blower housed within a customized intermodal freight container ("conex") (**Figure 14**). Piping from the SVE wells feeds into the conex, where vapor moves through the VLS', before traveling through the blower and a baffle connected to a Regenerative Thermal Oxidizer (RTO). A second blower, located on the RTO side of the baffle, pushes the vapor into the RTO and adds fresh air to dilute the vapor stream as necessary.

5.1 SVE SYSTEM OPERATIONS

System start-up was initiated on January 31, 2012. Five individual lines act as a header and are connected to specific sets of SVE wells along the West Fenceline and or in the Village at 4th Street. These lines carry vapors to the RTO and the relationship between the SVE wells and the lines that they are connected is shown on Figure 14. As the system was starting up, vapor removal from specific sets of wells were brought on line in a systematic order. The line connected to wells SVE-3, SVE-4, and SVE-25 was brought online first systematically followed by the others until all lines and wells were in operation.

Full scale operations commenced on April 1, 2012, with all lines and all SVE wells in operation, except for those located inside the Public Works Yard. Only one of the SVE wells (SVE-20/located outside of the Public Works Yard) on that line was operational during the first three quarters of the year. Lack of access prevented SVE wells inside the Public Works Yard from being connected until December of 2012. The remaining SVE wells inside the Public Works boundary (SVE-21 through SVE-24, SVE-26, and SVE-27) connected to a 6th line were brought online December 2012 when construction of that section was completed.

Sampling for VMP's 1 through 46 commenced during or prior to 3Q12 (mentioned in Condition # 9 in the IEPA, 2012 letter). In addition, access has been approved for VMP's 47 through 55 (mentioned in Condition #10). Sampling on those VMP's is scheduled to commence in 1Q13.

5.2 SVE MAINTENANCE ACTIVITES AND MODIFICATIONS

URS personnel have performed the scheduled system maintenance as outlined in the manufacturers' suggested O&M documents. The scheduled maintenance includes routine lubrication, belt and oil level checks, emergency stops checks, and checks of VLS tank levels and switches. Checking and cleaning of filters and components exposed to dirt and/or the elements were routinely performed as part of a weekly walk around inspection. Routine inspections of system SVE wells and associated vaults were conducted on a weekly basis.

In addition to routine maintenance, the following maintenance and repairs were performed on the system.

- **April 16, 2012** and **April 19, 2012** - RTO poppet valves re-adjusted (twice).
- **May 3, 2012** - Blocking valve assembly replaced.
- **November 6, 2012 –** System shut down due to failed combustion fan motor. A replacement fan motor was delivered to the site and installed; the system was subsequently restarted on November 9, 2012. IEPA was notified by e-mail of a system shut down exceeding 72 hours, as specified in condition #8 as enumerated in the IEPA, 2012 approval letter.

Activities associated with system maintenance were appropriately documented both in the field maintenance log maintained on site and in the office central (electronic) file.

System Modifications

Following system start up on January 31, 2012, the following modifications were integrated into the system design to optimize system performance and improve monitoring capability.

- **Additional Dilution Ports –** Following system initiation and monitoring of vapor concentrations, it was determined that additional dilution air would be beneficial to system operations. Elevated temperatures within the burn chambers of the RTO unit were being experienced, resulting in conditions at or near alarm set points. To resolve this condition, three unused manifold ports on the header lines were modified and utilized to draw ambient air into the system vacuum line. Two of the dilution ports were associated with the West Fenceline manifold, and one associated with the Public Works manifold. The ports protruded through the conex roof and were capped during construction activities. The caps on the lines were simply removed and ambient air

drawn in. These ports acted as supplemental dilution air to the engineered dilution valve located above the blower, and the fresh air dampers associated with the mixing box.

- **Additional Sampling Ports** – The SVE System design included installation of several ports for the purpose of varied aspects of data collection. Following initial data collection for calculation of hydrocarbon destruction it was determined that collecting additional system parameters would be beneficial. Additional ports were installed on both header lines between the VLS units and the blower. Utilizing these additionally installed ports, combined temperature, differential pressure, vacuum, and air velocity readings can be collected.

5.3 SVE SYSTEM MONITORING RESULTS

The results of samples collected monthly from SVE wells and VMPs can be found in **Tables 8 and 9**, respectively. The results of the header and RTO exhaust analytical data can be found in **Table 10**. Data reviews and laboratory analytical reports for the headers and RTO exhaust data can be found in **Appendix A**. The data required pursuant to Condition #11 of the IEPA, 2012 letter are contained in those tables.

SVE Well & VMP Tedlar Sampling Details:

- 34 SVE wells were sampled monthly (SVE-3 through SVE-20, SVE-25 through SVE-36)
- 29 VMPs were sampled quarterly (VMP-1 through VMP-7, VMP-9, VMP-12, VMP-17, VMP-19, VMP-26 through VMP-28, VMP-31 through VMP-40, and VMP-42 through VMP-46)
- SVE-21 through SVE-24, SVE-26, and SVE-27 are associated with the public works leg of the SVE system; and sampling of these SVE wells did not begin until December 2012.
- With the exception of VMP-17 and VMP-19, VMP locations contain either 3 or 4 screen depths between 5 feet and 42 feet. Locations VMP-17 and VMP-19 contain only one.

SVE System Monitoring Results:

- The reduction in hydrocarbons has improved due to daily monitoring and adjustments of the SVE system (addition of final SVE wells and continued reduction of dilution air). See mass removal calculation discussion details in **Section 5.4**.
- Vacuum measurements were obtained monthly at all of the SVE wells that were on line. Vacuum data can be found in **Table 7**. Vacuum measurements were collected at VMP's within the Village and WRR.
- Total hydrocarbon concentrations consistently dropped at both the SVE wells and the VMP's.

- Flow differential data at each SVE leg located at the RTO were obtained and can be found in **Appendix B**.

Trends related to hydrocarbon concentrations monitored in the field are expected to continue, and these numbers are expected to improve as the system is operated and/or optimized. The process of analyzing flow differential readings at the SVE wells continues to be evaluated.

5.4 SYSTEM OPERATION EVALUATION

The SVE system has been operational for less than a year. The last of the SVE wells were added to the SVE system in the last month of 4Q12. As such, the primary focus of the system operation thus far has been stability and consistency. The system has been more than 92% operational since its start-up. Shut down's have been limited with only a single instance of a prolonged shut down, which was just over the 72 hour threshold. Maintenance and repair to the SVE system has been minimal.

Further, the demonstrated consistency of subsurface vacuum levels, not only in SVE wells, but also in the VMP's, reflects well on the status of the system operation to this point. The system will be operating under optimal vacuum conditions when all supplemental and engineered dilution is eliminated from the RTO intake. Due to high soil vapor concentrations, supplementary dilution air to the RTO unit has been required in order to maintain optimal operating temperatures and conditions within the RTO. In order to achieve optimal influence of the system vacuum, the dilution air must be eliminated. Over the duration of approximately six months, supplementary dilution air has been decreased to only include the engineered manual dilution valve located above the system blower. As the manual dilution air is eliminated from the system, both vacuum and radius of influence within the system area are expected to increase.

In addition to the monthly and quarterly sampling, due to data indicating elevated concentrations, SVE-20, SVE-29, and SVE-30 through SVE-33, were sampled daily from March 2012 to June 2012. Beginning June 1, 2012 samples were collected semi-weekly. All data collection points have demonstrated reductions in hydrocarbon concentrations following system initiation.

Hydrocarbon Mass Removal

The total hydrocarbon mass of soil vapor removed by the SVE system was estimated by measuring the total hydrocarbon concentrations of the extracted soil vapors and the soil vapor flow rates into the SVE system. The results of the header and RTO exhaust analytical data can be found in **Table 10**. A flame ionization detector (FID) calibrated with methane was used to measure total hydrocarbon concentrations in samples collected from the West Fenceline Header

and the Public Works Header. Total header hydrocarbon concentrations are included in **Appendix C**.

Total soil vapor flow rates were determined by calculating flow rates for the individual SVE legs that carry vapors from the SVE wells to the SVE system. Pressure, differential pressure, and temperature were measured in each leg. This data and Equation 2.7 and Equation 2.8 from USEPA Test Method 2 "Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)" (Method 2) were used to calculate flow rates for each leg. The flow rates for the appropriate legs were summed to determine flow rates in the West Fenceline Header and the Public Works Header. Flow rates are included in **Appendix D**. Only flow rates and concentrations samples taken on the same day were used to calculate mass removal.

At times, supplemental ports added dilution air to the soil vapors flowing into RTO. The dilution value settings were documented for the periods during sample collection. In order to account for the dilution air's contribution to the flow in the header, dilution air measurements were obtained for each dilution valve setting documented using the method described in the paragraph above. These dilution measurements were added to the appropriate header flow rates in order to estimate the total flow through the header during each concentration sampling event.

Hydrocarbon mass removed for the period between each concentration sample was calculated using the following equation:

$$M_{THC} = Q \times 60 \times \varphi \times \frac{M_c}{385.1 \times 10^6} \times h \div 2000$$

Where:

$M_{THC} = Hydrocarbon\ mass\ removed\ for\ the\ period\ (tons)$

$Q = Total\ header\ flowrate\ (SCFM)$

$\varphi = Total\ hydrocarbon\ concentration\ (ppmv)$

$M_C = Molecular\ weight\ of\ total\ hydrocarbons\ \left({}^{lb}/_{lb-mole}\right)$

$h = Period\ SVE\ operating\ hours\ (hours)$

Unit conversions:

$60\ minutes\ per\ hour$

$\frac{M_c}{385.1 \times 10^6}\ converts\ (ppmv) to\ \left({}^{lb}/_{SCF}\right)$

$2000\ pounds\ per\ tons$

Header samples from **Table 10** were used to estimate molecular weights for the west fence line and public works headers. These molecular weights, 26.4 lb/lb-mole and 19.9 lb/lb-mole respectively, were used to convert header hydrocarbon volume concentrations (ppmv) to mass concentrations (lb/SCF). The conversion from volume concentration (ppmv) to mass concentrations (lb/SCF) was taken from the USEPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition, Appendix A. The total hydrocarbon mass removed during each period was summed to determine the quarterly total hydrocarbon mass removed. The mass removed are summarized in the table below.

Quarterly Total Hydrocarbon Mass Removed

	West Fenceline Mass (tons)	Public Works Mass (tons)	Quarterly Mass (tons)	Total Mass (tons)
2Q12	183	53	237	237
3Q12	141	34	175	412
4Q12	78	33	110	522

5.5 SVE SYSTEM MODIFICATION RECOMMENDATIONS

As noted above, the primary focus of the system operators to this point has been stability and consistency while all system components were being brought on line. With the system now complete, operators will focus attention on system maintenance and optimization. Future monitoring and sampling results from data points associated with the SVE system will be the primary driver of optimization efforts. Optimization efforts could include reduction in dilution air, manipulation of individual SVE wells and legs of the SVE system to direct more or less vacuum to areas.

URS conducted the 4Q12 soil vapor sampling and SVE monitoring efforts on behalf of SOPUS in the Village, Roxana Public Works Yard, and adjoining portions of the WRR. The following conclusions are based on the data collected during 4Q12:

- Soil vapor samples were collected from 34 locations and 117 ports during 4Q12. The locations of higher soil vapor concentrations generally coincide with areas of the higher observed groundwater impact.
- Benzene concentrations within the Village range from parts per billion (ppb) in the shallow samples to tens of parts per million (ppm) in deeper samples. The proposed residential screening criterion was exceeded in at least one port at VMP-1, VMP-3, VMP-4, VMP-9, VMP-31, and, VMP-44.
- Benzene concentrations within Roxana Public Works Yard and WRR range from ppb in the shallow samples to thousands of ppm in deeper samples. The proposed commercial/industrial screening criterion was exceeded in at least one port at VMP-13, VMP-14, VMP-25, and VMP-30 within Roxana Public Works Yard and VMP-12 and VMP-16 within WRR.
- As presented in detail above, the SVE system continues to operate efficiently and effectively.

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US Environmental Protection Agency (USEPA), June 2008; (USEPA, 2008); *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review.*

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
MW-01										
4Q10	442.86	11/12/2010	NE	36.91	NA	NA	NA	405.95	399.45 - 384.45 (43.41 - 58.41)	*
1Q11	442.86	1/13/2011	NE	37.58	NA	NA	NA	405.28		*
2Q11	442.86	4/25/2011	NE	38.38	NA	NA	NA	404.48		*
3Q11	442.86	7/5/2011	NE	35.77	NA	NA	NA	407.09		*
	442.86	9/19/2011	NE	35.15	NA	NA	NA	407.71		*
4Q11	442.86	10/5/2011	NE	35.48	NA	NA	NA	407.38		*
1Q12	442.65	1/3/2012	NE	37.65	NA	NA	NA	405.00	392.67 - 382.67 (49.98 - 59.98)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	442.65	4/2/2012	NE	38.85	NA	NA	NA	403.80		*
3Q12	442.65	7/2/2012	NE	39.12	NA	NA	NA	403.53		*
4Q12	442.65	10/1/2012	NE	40.92	NA	NA	NA	401.73		*
MW-02										
4Q10	443.93	11/12/2010	NE	38.12	NA	NA	NA	405.81	396.74 - 381.74 (47.19 - 62.19)	*
1Q11	443.93	1/13/2011	NE	38.67	NA	NA	NA	405.26		*
2Q11	443.93	4/25/2011	NE	39.61	NA	NA	NA	404.32		*
3Q11	443.93	7/5/2011	NE	37.04	NA	NA	NA	406.89		*
	443.93	9/19/2011	NE	36.36	NA	NA	NA	407.57		*
4Q11	443.93	10/5/2011	NE	36.65	NA	NA	NA	407.28		*
1Q12	443.77	1/3/2012	NE	38.88	NA	NA	NA	404.89	392.45 - 382.45 (51.32 - 61.32)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	443.77	4/2/2012	NE	40.04	NA	NA	NA	403.73		*
3Q12	443.77	7/2/2012	NE	40.32	NA	NA	NA	403.45		*
4Q12	443.77	10/1/2012	NE	42.10	NA	NA	NA	401.67		*
MW-03										
4Q10	430.36	11/12/2010	NE	24.05	NA	NA	NA	406.31	399.38 - 384.38 (30.98 - 45.98)	*
1Q11	430.36	1/13/2011	NE	24.92	NA	NA	NA	405.44		*
2Q11	430.36	4/25/2011	NE	25.42	NA	NA	NA	404.94		*
3Q11	430.36	7/5/2011	NE	22.72	NA	NA	NA	407.64		*
	430.36	9/19/2011	NE	22.40	NA	NA	NA	407.96		*
4Q11	430.36	10/5/2011	NE	22.76	NA	NA	NA	407.60		*
1Q12	430.08	1/3/2012	NE	24.84	NA	NA	NA	405.24	395.41 - 385.41 (34.67 - 44.67)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	430.08	4/2/2012	NE	26.04	NA	NA	NA	404.04		*
3Q12	430.08	7/2/2012	NE	26.30	NA	NA	NA	403.78		*
4Q12	430.08	10/1/2012	NE	28.13	NA	NA	NA	401.95		*
MW-04										
4Q10	441.58	11/12/2010	NE	35.38	NA	NA	NA	406.20	398.95 - 383.95 (42.63 - 57.63)	*
1Q11	441.58	1/13/2011	NE	36.04	NA	NA	NA	405.54		*
2Q11	441.58	4/25/2011	NE	36.74	NA	NA	NA	404.84		*
3Q11	441.58	7/5/2011	NE	34.15	NA	NA	NA	407.43		*
	441.58	9/19/2011	NE	33.65	NA	NA	NA	407.93		*
4Q11	441.58	10/5/2011	NE	33.99	NA	NA	NA	407.59		*
1Q12	441.14	1/3/2012	NE	35.97	NA	NA	NA	405.17	395.08 - 385.08 (46.06 - 56.06)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	441.14	4/2/2012	NE	37.11	NA	NA	NA	404.03		*
3Q12	441.14	7/2/2012	NE	37.43	NA	NA	NA	403.71		*
4Q12	441.14	10/1/2012	NE	39.27	NA	NA	NA	401.87		*
MW-05										
4Q10	429.73	11/12/2010	NE	23.32	NA	NA	NA	406.41	398.60 - 383.60 (31.13 - 46.13)	*
1Q11	429.73	1/13/2011	NE	24.15	NA	NA	NA	405.58		*
2Q11	429.73	4/25/2011	NE	24.65	NA	NA	NA	405.08		*
3Q11	429.73	7/5/2011	NE	22.00	NA	NA	NA	407.73		*
	429.73	9/19/2011	NE	21.72	NA	NA	NA	408.01		*
4Q11	429.73	10/5/2011	NE	22.06	NA	NA	NA	407.67		*
1Q12	429.80	1/3/2012	NE	24.45	NA	NA	NA	405.35	395.83 - 385.83 (33.97 - 43.97)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	429.80	4/2/2012	NE	25.65	NA	NA	NA	404.15		*
3Q12	429.80	7/2/2012	NE	25.91	NA	NA	NA	403.89		*
4Q12	429.80	10/1/2012	NE	27.80	NA	NA	NA	402.00		*
MW-06A										
4Q10	432.42	11/12/2010	NE	25.62	NA	NA	NA	406.80	400.44 - 385.44 (31.98 - 46.98)	*
1Q11	432.42	1/13/2011	NE	26.36	NA	NA	NA	406.06		*
2Q11	432.42	4/25/2011	NE	26.78	NA	NA	NA	405.64		*
3Q11	432.42	7/5/2011	NE	24.21	NA	NA	NA	408.21		*
	432.42	9/19/2011	NE	24.07	NA	NA	NA	408.35		*
4Q11	432.42	10/5/2011	NE	24.44	NA	NA	NA	407.98		*
1Q12	432.14	1/3/2012	NE	26.34	NA	NA	NA	405.80	397.31 - 387.31 (34.83 - 44.83)	*1" Piezometer replaced with a 2" groundwater monitoring well
2Q12	432.14	4/2/2012	NE	27.57	NA	NA	NA	404.57		*
3Q12	432.14	7/2/2012	NE	27.88	NA	NA	NA	404.26		*
4Q12	432.14	10/1/2012	NE	28.81	NA	NA	NA	402.33		*
MW-06B										
4Q10	432.29	11/12/2010	NE	25.47	NA	NA	NA	406.82	368.24 - 363.24 (64.05 - 69.05)	*
1Q11	432.29	1/13/2011	NE	26.21	NA	NA	NA	406.08		*
2Q11	432.29	4/25/2011	NE	26.65	NA	NA	NA	405.64		*
3Q11	432.29	7/5/2011	NE	24.08	NA	NA	NA	408.21		*
4Q11	432.29	10/5/2011	NE	24.28	NA	NA	NA	408.01		*
1Q12	432.29	1/3/2012	NE	26.40	NA	NA	NA	405.89		*
2Q12	432.29	4/2/2012	NE	27.61	NA	NA	NA	404.68		*
3Q12	432.29	7/2/2012	NE	27.92	NA	NA	NA	404.37		*
4Q12	432.29	10/1/2012	NE	29.86	NA	NA	NA	402.43		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
MW-06C										
4Q10	432.11	11/12/2010	NE	25.25	NA	NA	NA	406.86	347.16 - 342.16 (84.95 - 89.95)	*
1Q11	432.11	1/13/2011	NE	25.97	NA	NA	NA	406.14		*
2Q11	432.11	4/25/2011	NE	26.73	NA	NA	NA	405.38		*
3Q11	432.11	7/5/2011	NE	23.80	NA	NA	NA	408.31		*
4Q11	432.11	10/5/2011	NE	24.03	NA	NA	NA	408.08		*
1Q12	432.11	1/3/2012	NE	26.17	NA	NA	NA	405.94		*
2Q12	432.11	4/2/2012	NE	27.40	NA	NA	NA	404.71		*
3Q12	432.11	7/2/2012	NE	27.71	NA	NA	NA	404.40		*
4Q12	432.11	10/1/2012	NE	29.70	NA	NA	NA	402.41		*
MW-06D										
4Q10	431.99	11/12/2010	NE	25.13	NA	NA	NA	406.86	327.27 - 322.27 (104.72 - 109.72)	*
1Q11	431.99	1/13/2011	NE	25.87	NA	NA	NA	406.12		*
2Q11	431.99	4/25/2011	NE	26.30	NA	NA	NA	405.69		*
3Q11	431.99	7/5/2011	NE	23.67	NA	NA	NA	408.32		*
4Q11	431.99	10/5/2011	NE	23.95	NA	NA	NA	408.04		*
1Q12	431.99	1/3/2012	NE	26.05	NA	NA	NA	405.94		*
2Q12	431.99	4/2/2012	NE	27.46	NA	NA	NA	404.53		*
3Q12	431.99	7/2/2012	NE	27.58	NA	NA	NA	404.41		*
4Q12	431.99	10/1/2012	NE	29.51	NA	NA	NA	402.48		*
MW-07										
4Q10	443.10	11/12/2010	NE	36.93	NA	NA	NA	406.17	400.18 - 390.18 (42.92 - 52.92)	*
1Q11	443.10	1/13/2011	NE	37.52	NA	NA	NA	405.58		*
2Q11	443.10	4/25/2011	NE	38.18	NA	NA	NA	404.92		*
3Q11	443.10	7/5/2011	NE	35.65	NA	NA	NA	407.45		*
	443.10	9/19/2011	NE	35.22	NA	NA	NA	407.88		*
4Q11	443.10	10/5/2011	NE	25.52	NA	NA	NA	417.58		*
1Q12	443.10	1/3/2012	NE	37.79	NA	NA	NA	405.31		*
2Q12	443.10	4/2/2012	NE	38.91	NA	NA	NA	404.19		*
3Q12	443.10	7/2/2012	NE	39.23	NA	NA	NA	403.87		*
4Q12	443.10	10/1/2012	NE	41.10	NA	NA	NA	402.00		*
MW-08										
4Q10	434.11	11/12/2010	NE	27.84	NA	NA	NA	406.27	400.51 - 390.51 (33.60 - 43.60)	*
1Q11	434.11	1/13/2011	NE	28.59	NA	NA	NA	405.52		*
2Q11	434.11	4/25/2011	NE	29.15	NA	NA	NA	404.96		*
3Q11	434.11	7/5/2011	NE	26.55	NA	NA	NA	407.56		*
4Q11	434.11	10/5/2011	NE	26.57	NA	NA	NA	407.54		*
1Q12	434.11	1/3/2012	NE	28.84	NA	NA	NA	405.27		*
2Q12	434.11	4/2/2012	NE	30.01	NA	NA	NA	404.10		*
3Q12	434.11	7/2/2012	NE	30.29	NA	NA	NA	403.82		*
4Q12	434.11	10/1/2012	NE	32.17	NA	NA	NA	401.94		*
MW-09										
4Q10	445.20	11/12/2010	NE	39.00	NA	NA	NA	406.20	398.75 - 388.75 (46.45 - 56.45)	*
1Q11	445.20	1/13/2011	NE	39.62	NA	NA	NA	405.58		*
2Q11	445.20	4/25/2011	NM	NM	NA	NA	NA	NA		Area flooded; unable to access to well
3Q11	445.20	7/5/2011	NE	38.06	NA	NA	NA	407.14		*
	445.20	9/19/2011	NE	37.27	NA	NA	NA	407.93		*
4Q11	445.20	10/5/2011	NE	37.56	NA	NA	NA	407.64		*
1Q12	445.20	1/3/2012	NE	39.50	NA	NA	NA	405.70		*
2Q12	445.20	4/2/2012	NE	40.77	NA	NA	NA	404.43		*
3Q12	445.20	7/2/2012	NE	40.07	NA	NA	NA	405.13		*
4Q12	445.20	10/1/2012	NE	42.75	NA	NA	NA	402.45		*
MW-10										
4Q10	445.03	11/12/2010	NE	38.97	NA	NA	NA	406.06	400.60 - 390.60 (44.43 - 54.43)	*
1Q11	445.03	1/13/2011	NE	39.40	NA	NA	NA	405.63		*
2Q11	445.03	4/25/2011	NE	40.26	NA	NA	NA	404.77		*
3Q11	445.03	7/5/2011	NE	38.01	NA	NA	NA	407.02		*
	445.03	9/19/2011	NE	37.24	NA	NA	NA	407.79		*
4Q11	445.03	10/5/2011	NE	37.47	NA	NA	NA	407.56		*
1Q12	445.03	1/3/2012	NE	39.39	NA	NA	NA	405.64		*
2Q12	445.03	4/2/2012	NE	40.58	NA	NA	NA	404.45		*
3Q12	445.03	7/2/2012	NE	40.92	NA	NA	NA	404.11		*
4Q12	445.03	10/1/2012	NE	42.69	NA	NA	NA	402.34		*
MW-11										
4Q10	442.33	11/12/2010	NE	36.39	NA	NA	NA	405.94	400.67 - 390.67 (41.66 - 51.66)	*
1Q11	442.33	1/13/2011	NE	37.15	NA	NA	NA	405.18		*
2Q11	442.33	4/25/2011	NE	38.00	NA	NA	NA	404.33		*
3Q11	442.33	7/5/2011	NE	35.46	NA	NA	NA	406.87		*
	442.33	9/19/2011	NE	34.68	NA	NA	NA	407.65		*
4Q11	442.33	10/5/2011	NE	34.07	NA	NA	NA	408.26		*
1Q12	442.33	1/3/2012	NE	37.21	NA	NA	NA	405.12		*
2Q12	442.33	4/2/2012	NE	38.44	NA	NA	NA	403.89		*
3Q12	442.33	7/2/2012	NE	38.68	NA	NA	NA	403.65		*
4Q12	442.33	10/1/2012	NE	40.42	NA	NA	NA	401.91		*
MW-12										
4Q10	442.60	11/12/2010	NE	36.63	NA	NA	NA	405.97	400.68 - 390.68 (41.92 - 51.92)	*
1Q11	442.60	1/13/2011	NE	37.42	NA	NA	NA	405.18		*
2Q11	442.60	4/25/2011	NE	38.20	NA	NA	NA	404.40		*
3Q11	442.60	7/5/2011	NE	35.55	NA	NA	NA	407.05		*
	442.60	9/19/2011	NE	34.88	NA	NA	NA	407.72		*
4Q11	442.60	10/5/2011	NE	35.20	NA	NA	NA	407.40		*
1Q12	442.60	1/3/2012	NE	37.57	NA	NA	NA	405.03		*
2Q12	442.60	4/2/2012	NE	38.75	NA	NA	NA	403.85		*
3Q12	442.60	7/2/2012	NE	39.01	NA	NA	NA	403.59		*
4Q12	442.60	10/1/2012	NE	40.78	NA	NA	NA	401.82		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
MW-13										
1Q11	430.27	1/13/2011	NE	24.28	NA	NA	NA	405.99	404.70 - 394.70 (25.57 - 35.57)	*
2Q11	430.27	4/25/2011	NE	24.47	NA	NA	NA	405.80		*
3Q11	430.27	7/5/2011	NE	21.67	NA	NA	NA	408.60		*
	430.27	9/19/2011	NE	21.88	NA	NA	NA	408.39		*
4Q11	430.27	10/6/2011	NE	21.20	NA	NA	NA	409.07		*
1Q12	430.27	1/3/2012	NE	24.35	NA	NA	NA	405.92		*
2Q12	430.27	4/2/2012	NE	25.48	NA	NA	NA	404.79		*
3Q12	430.27	7/3/2012	NE	25.95	NA	NA	NA	404.32		
4Q12	430.27	10/1/2012	NE	40.44	NA	NA	NA	389.83		
	430.27	10/2/2012	NE	27.99	NA	NA	NA	402.28		
MW-14										
1Q12	434.44	1/3/2012	NM	NM	NA	NA	NA	NA	401.02 - 391.02 (31.42 - 43.42)	Restricted Area
2Q12	434.44	4/2/2012	NM	NM	NA	NA	NA	NA		Restricted Area
3Q12	434.44	7/5/2012	NE	29.87	NA	NA	NA	404.57		*
4Q12	434.44	10/2/2012	NE	31.86	NA	NA	NA	402.58		*
P-01										
1Q10	442.56	1/1/2010	NE	31.87	NA	NA	NA	410.69	380.61 - 375.61 (61.95 - 66.95)	*
2Q10	442.56	4/1/2010	NE	30.11	NA	NA	NA	412.45		*
3Q10	442.56	7/1/2010	NE	29.49	NA	NA	NA	413.07		*
4Q10	442.56	10/1/2010	NE	27.86	NA	NA	NA	414.70		*
1Q11	442.56	1/1/2011	NE	28.52	NA	NA	NA	414.04		*
2Q11	442.56	4/1/2011	NE	27.30	NA	NA	NA	415.26		*
3Q11	442.56	7/5/2011	NE	25.51	NA	NA	NA	417.05		*
	442.56	9/19/2011	NE	27.75	NA	NA	NA	414.81		*
4Q11	442.56	10/6/2011	NE	28.15	NA	NA	NA	414.41		*
1Q12	442.56	1/3/2012	NE	28.93	NA	NA	NA	413.63		*
2Q12	442.56	4/2/2012	NE	29.38	NA	NA	NA	413.18		*
3Q12	442.56	7/2/2012	NE	30.60	NA	NA	NA	411.96		*
4Q12	442.56	10/1/2012	NE	32.35	NA	NA	NA	410.21		*
P-4U										
1Q10	442.50	1/1/2010	NE	33.47	NA	NA	NA	409.03	361.35 - 359.35 (81.15 - 83.15)	*
2Q10	442.50	4/1/2010	NE	32.06	NA	NA	NA	410.44		*
3Q10	442.50	7/1/2010	NE	31.00	NA	NA	NA	411.50		*
4Q10	442.50	10/1/2010	NE	29.68	NA	NA	NA	412.82		*
1Q11	442.50	1/1/2011	NE	29.81	NA	NA	NA	412.69		*
2Q11	442.50	4/1/2011	NE	29.10	NA	NA	NA	413.40		*
3Q11	442.50	7/5/2011	NE	27.02	NA	NA	NA	415.48		*
	442.50	9/19/2011	NE	28.71	NA	NA	NA	413.79		*
4Q11	442.50	10/6/2011	NE	29.17	NA	NA	NA	413.33		*
1Q12	442.50	1/3/2012	NE	40.32	NA	NA	NA	402.18		*
2Q12	442.50	4/2/2012	NE	30.80	NA	NA	NA	411.70		*
3Q12	442.50	7/2/2012	NE	31.70	NA	NA	NA	410.80		*
4Q12	442.50	10/1/2012	NE	33.65	NA	NA	NA	408.85		*
P-5L										
1Q10	443.79	1/1/2010	NE	32.56	NA	NA	NA	411.23	301.89 - 299.89 (141.90 - 143.90)	*
2Q10	443.79	4/1/2010	NE	32.79	NA	NA	NA	411.00		*
3Q10	443.79	7/1/2010	NE	30.30	NA	NA	NA	413.49		*
4Q10	443.79	10/1/2010	NE	29.21	NA	NA	NA	414.58		*
1Q11	443.79	1/1/2011	NE	29.55	NA	NA	NA	414.24		*
2Q11	443.79	4/1/2011	NE	28.10	NA	NA	NA	415.69		*
3Q11	443.79	7/5/2011	NE	25.87	NA	NA	NA	417.92		*
	443.79	9/19/2011	NE	28.47	NA	NA	NA	415.32		*
4Q11	443.79	10/6/2011	NE	29.16	NA	NA	NA	414.63		*
1Q12	443.79	1/3/2012	NE	30.42	NA	NA	NA	413.37		*
2Q12	443.79	4/2/2012	NE	30.56	NA	NA	NA	413.23		*
3Q12	443.79	7/2/2012	NE	31.60	NA	NA	NA	412.19		*
4Q12	443.79	10/1/2012	NE	33.60	NA	NA	NA	410.19		*
P-5U										
1Q10	444.15	1/1/2010	NE	34.48	NA	NA	NA	409.67	313.52 - 311.52 (130.63 - 132.63)	*
2Q10	444.15	4/1/2010	NE	30.97	NA	NA	NA	413.18		*
3Q10	444.15	7/1/2010	NE	31.95	NA	NA	NA	412.20		*
4Q10	444.15	10/1/2010	NE	30.82	NA	NA	NA	413.33		*
1Q11	444.15	1/1/2011	NE	30.96	NA	NA	NA	413.19		*
2Q11	444.15	4/1/2011	NE	29.91	NA	NA	NA	414.24		*
3Q11	444.15	7/5/2011	NE	27.80	NA	NA	NA	416.35		*
	444.15	9/19/2011	NE	29.84	NA	NA	NA	414.31		*
4Q11	444.15	10/6/2011	NE	30.41	NA	NA	NA	413.74		*
1Q12	444.15	1/3/2012	NE	30.42	NA	NA	NA	413.73		*
2Q12	444.15	4/2/2012	NE	31.96	NA	NA	NA	412.19		*
3Q12	444.15	7/2/2012	NE	32.80	NA	NA	NA	411.35		*
4Q12	444.15	10/1/2012	NE	35.00	NA	NA	NA	409.15		*
P-6L										
4Q11	443.20	10/6/2011	NE	28.92	NA	NA	NA	414.28	Unknown	
1Q12	443.20	1/3/2012	NE	30.21	NA	NA	NA	412.99		
2Q12	443.20	4/2/2012	NE	30.38	NA	NA	NA	412.82		
3Q12	443.20	7/2/2012	NE	31.18	NA	NA	NA	412.02		
4Q12	443.20	10/1/2012	NE	33.45	NA	NA	NA	409.75		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-6U										
1Q10	443.35	1/1/2010	NE	33.94	NA	NA	NA	409.41	362.85 - 360.85 (80.50 - 82.50)	*
2Q10	443.35	4/1/2010	NE	32.49	NA	NA	NA	410.86		*
3Q10	443.35	7/1/2010	NE	31.43	NA	NA	NA	411.92		*
4Q10	443.35	10/1/2010	NE	30.33	NA	NA	NA	413.02		*
1Q11	443.35	1/1/2011	NE	30.53	NA	NA	NA	412.82		*
2Q11	443.35	4/1/2011	NE	29.57	NA	NA	NA	413.78		*
3Q11	443.35	7/5/2011	NE	27.35	NA	NA	NA	416.00		*
	443.35	9/19/2011	NE	29.26	NA	NA	NA	414.09		*
4Q11	443.35	10/6/2011	NE	29.78	NA	NA	NA	413.57		*
1Q12	443.35	1/3/2012	NE	30.97	NA	NA	NA	412.38		*
2Q12	443.35	4/2/2012	NE	31.42	NA	NA	NA	411.93		*
3Q12	443.35	7/2/2012	NE	32.25	NA	NA	NA	411.10		*
4Q12	443.35	10/1/2012	NE	30.40	NA	NA	NA	412.95		*
P-7L										
4Q11	443.42	10/6/2011	NE	29.57	NA	NA	NA	413.85	Unknown	
1Q12	443.42	1/3/2012	NE	30.91	NA	NA	NA	412.51		
2Q12	443.42	4/2/2012	NE	31.28	NA	NA	NA	412.14		
3Q12	443.42	7/2/2012	NE	32.60	NA	NA	NA	410.82		
4Q12	443.42	10/1/2012	NE	33.98	NA	NA	NA	409.44		
P-7U										
1Q10	443.80	1/1/2010	NE	34.95	NA	NA	NA	408.85	382.72 - 380.72 (61.08 - 63.08)	*
2Q10	443.80	4/1/2010	NE	32.49	NA	NA	NA	411.31		*
3Q10	443.80	7/1/2010	NE	31.63	NA	NA	NA	412.17		*
4Q10	443.80	10/1/2010	NE	30.65	NA	NA	NA	413.15		*
1Q11	443.80	1/1/2011	NE	30.70	NA	NA	NA	413.10		*
2Q11	443.80	4/1/2011	NE	29.66	NA	NA	NA	414.14		*
3Q11	443.80	7/5/2011	NE	27.30	NA	NA	NA	416.50		*
	443.80	9/19/2011	NE	29.51	NA	NA	NA	414.29		*
4Q11	443.80	10/6/2011	NE	30.02	NA	NA	NA	413.78		*
1Q12	443.80	1/3/2012	NE	31.23	NA	NA	NA	412.57		*
2Q12	443.80	4/2/2012	NE	31.63	NA	NA	NA	412.17		*
3Q12	443.80	7/2/2012	NE	31.86	NA	NA	NA	411.94		*
4Q12	443.80	10/1/2012	NE	34.55	NA	NA	NA	409.25		*
P-8L										
4Q11	443.10	10/6/2011	NE	31.01	NA	NA	NA	412.09	Unknown	
1Q12	443.10	1/3/2012	NE	30.92	NA	NA	NA	412.18		
2Q12	443.10	4/2/2012	NE	31.22	NA	NA	NA	411.88		
3Q12	443.10	7/2/2012	NE	31.81	NA	NA	NA	411.29		
4Q12	443.10	10/1/2012	NE	33.74	NA	NA	NA	409.36		
P-8U										
1Q10	441.87	1/1/2010	NM	NM	NA	NA	NA	NA	381.77 - 379.77 (60.10 - 62.10)	
2Q10	441.87	4/1/2010	NE	33.69	NA	NA	NA	408.18		*
3Q10	441.87	7/1/2010	NE	32.28	NA	NA	NA	409.59		*
4Q10	441.87	10/1/2010	NE	31.14	NA	NA	NA	410.73		*
1Q11	443.70	1/1/2011	NE	30.79	NA	NA	NA	412.91		*
2Q11	443.70	4/1/2011	NE	30.50	NA	NA	NA	413.20		*
3Q11	441.87	7/5/2011	NE	28.20	NA	NA	NA	413.67		*
	441.87	9/19/2011	NE	29.46	NA	NA	NA	412.41		*
4Q11	441.87	10/6/2011	NE	29.86	NA	NA	NA	412.01		*
1Q12	441.87	1/3/2012	NE	30.99	NA	NA	NA	410.88		*
2Q12	441.87	4/2/2012	NE	31.73	NA	NA	NA	410.14		*
3Q12	441.87	7/9/2012	NE	32.51	NA	NA	NA	409.36		*
4Q12	441.87	10/1/2012	NE	34.77	NA	NA	NA	407.10		*
P-9L										
4Q11	444.41	10/6/2011	NE	33.58	NA	NA	NA	410.83	Unknown	
1Q12	444.41	1/3/2012	NE	34.82	NA	NA	NA	409.59		
2Q12	444.41	4/2/2012	NE	35.95	NA	NA	NA	408.46		
3Q12	444.41	7/2/2012	NE	36.48	NA	NA	NA	407.93		
4Q12	444.41	10/1/2012	NE	38.22	NA	NA	NA	406.19		
P-9U										
1Q10	444.91	1/1/2010	NE	41.13	NA	NA	NA	403.78	344.32 - 342.32 (100.59 - 102.59)	*
2Q10	444.91	4/1/2010	NE	39.62	NA	NA	NA	405.29		*
3Q10	444.91	7/1/2010	NE	38.85	NA	NA	NA	406.06		*
4Q10	444.91	10/1/2010	NE	38.71	NA	NA	NA	406.20		*
1Q11	444.91	1/13/2011	NE	36.87	NA	NA	NA	408.04		*
2Q11	444.91	4/1/2011	NE	35.71	NA	NA	NA	409.20		*
3Q11	444.91	7/5/2011	NE	34.92	NA	NA	NA	409.99		*
	444.91	9/19/2011	NE	34.52	NA	NA	NA	410.39		*
4Q11	444.91	10/6/2011	NE	34.56	NA	NA	NA	410.35		*
1Q12	444.91	1/3/2012	NE	34.52	NA	NA	NA	410.39		*
2Q12	444.91	4/2/2012	NE	36.34	NA	NA	NA	408.57		*
3Q12	444.91	7/2/2012	NE	36.81	NA	NA	NA	408.10		*
4Q12	444.91	10/1/2012	NE	38.59	NA	NA	NA	406.32		*
P-11L										
1Q10	442.80	1/1/2010	NE	35.97	NA	NA	NA	406.83	332.59 - 330.59 (110.21 - 112.21)	*
2Q10	442.80	4/1/2010	NE	34.58	NA	NA	NA	408.22		*
3Q10	442.80	7/1/2010	NE	33.22	NA	NA	NA	409.58		*
4Q10	442.80	10/1/2010	NE	31.80	NA	NA	NA	411.00		*
1Q11	442.80	1/1/2011	NE	31.62	NA	NA	NA	411.18		*
2Q11	442.80	4/1/2011	NE	31.28	NA	NA	NA	411.52		*
3Q11	442.80	7/5/2011	NE	29.34	NA	NA	NA	413.46		*
	442.80	9/19/2011	NE	30.37	NA	NA	NA	412.43		*
4Q11	442.80	10/6/2011	NE	30.67	NA	NA	NA	412.13		*
1Q12	442.80	1/3/2012	NE	31.77	NA	NA	NA	411.03		*
2Q12	442.80	4/2/2012	NE	32.68	NA	NA	NA	410.12		*
3Q12	442.80	7/2/2012	NE	33.52	NA	NA	NA	409.28		*
4Q12	442.80	10/1/2012	NE	35.56	NA	NA	NA	407.24		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-11U										
1Q10	443.09	1/1/2010	NE	36.62	NA	NA	NA	406.47	343.17 - 341.17 (99.92 - 101.92)	*
2Q10	443.09	4/1/2010	NE	35.20	NA	NA	NA	407.89		*
3Q10	443.09	7/1/2010	NE	33.83	NA	NA	NA	409.26		*
4Q10	443.09	10/1/2010	NE	32.45	NA	NA	NA	410.64		*
1Q11	443.09	1/1/2011	NE	32.21	NA	NA	NA	410.88		*
2Q11	443.09	4/1/2011	NE	31.92	NA	NA	NA	411.17		*
3Q11	443.09	7/5/2011	NE	29.95	NA	NA	NA	413.14		*
	443.09	9/19/2011	NE	31.03	NA	NA	NA	412.06		*
4Q11	443.09	10/6/2011	NE	31.12	NA	NA	NA	411.97		*
1Q12	443.09	1/3/2012	NE	32.35	NA	NA	NA	410.74		*
2Q12	443.09	4/2/2012	NE	33.34	NA	NA	NA	409.75		*
3Q12	443.09	7/2/2012	NE	34.15	NA	NA	NA	408.94		*
4Q12	443.09	10/1/2012	NE	36.19	NA	NA	NA	406.90		*
P-14										
1Q10	442.65	1/1/2010	NE	31.95	NA	NA	NA	410.70	395.32 - 385.32 (47.33 - 57.33)	*
2Q10	442.65	4/1/2010	NE	30.20	NA	NA	NA	412.45		*
3Q10	442.65	7/1/2010	NE	29.56	NA	NA	NA	413.09		*
4Q10	442.65	10/1/2010	NE	27.94	NA	NA	NA	414.71		*
1Q11	442.65	1/1/2011	NE	28.57	NA	NA	NA	414.08		*
2Q11	442.65	4/1/2011	NE	27.38	NA	NA	NA	415.27		*
3Q11	442.65	7/5/2011	NE	25.57	NA	NA	NA	417.08		*
	442.65	9/19/2011	NE	27.77	NA	NA	NA	414.88		*
4Q11	442.65	10/6/2011	NE	28.20	NA	NA	NA	414.45		*
1Q12	442.65	1/3/2012	NE	28.98	NA	NA	NA	413.67		*
2Q12	442.65	4/2/2012	NE	29.42	NA	NA	NA	413.23		*
3Q12	442.65	7/2/2012	NE	30.55	NA	NA	NA	412.10		*
4Q12	442.65	10/1/2012	NE	32.39	NA	NA	NA	410.26		*
P-15										
1Q10	443.35	1/1/2010	NE	34.15	NA	NA	NA	409.20	397.90 - 387.90 (45.45 - 55.45)	*
2Q10	443.35	4/1/2010	NE	32.80	NA	NA	NA	410.55		*
3Q10	443.35	7/1/2010	NE	31.68	NA	NA	NA	411.67		*
4Q10	443.35	10/1/2010	NE	30.43	NA	NA	NA	412.92		*
1Q11	443.35	1/1/2011	NE	30.55	NA	NA	NA	412.80		*
2Q11	443.35	4/1/2011	NE	29.80	NA	NA	NA	413.55		*
3Q11	443.35	7/5/2011	NE	27.75	NA	NA	NA	415.60		*
	443.35	9/19/2011	NE	29.45	NA	NA	NA	413.90		*
4Q11	443.35	10/6/2011	NE	29.93	NA	NA	NA	413.42		*
1Q12	443.35	1/3/2012	31.05	31.06	412.29	412.30	0.01	412.30		*
2Q12	443.35	4/2/2012	NE	31.55	NA	NA	NA	411.80		*
3Q12	443.35	7/2/2012	NE	32.40	NA	NA	NA	410.95		*
4Q12	443.35	10/1/2012	NE	34.35	NA	NA	NA	409.00		*
P-16										
1Q10	442.31	1/1/2010	NE	32.86	NA	NA	NA	409.45	396.57 - 386.57 (45.74 - 55.74)	*
2Q10	442.31	4/1/2010	NE	31.43	NA	NA	NA	410.88		*
3Q10	442.31	7/1/2010	NE	30.32	NA	NA	NA	411.99		*
4Q10	442.31	10/1/2010	NE	29.21	NA	NA	NA	413.10		*
1Q11	442.31	1/1/2011	NE	29.40	NA	NA	NA	412.91		*
2Q11	442.31	4/1/2011	NE	28.54	NA	NA	NA	413.77		*
3Q11	442.31	7/5/2011	NE	26.34	NA	NA	NA	415.97		*
	442.31	9/19/2011	NE	28.26	NA	NA	NA	414.05		*
4Q11	442.31	10/6/2011	NE	28.77	NA	NA	NA	413.54		*
1Q12	442.31	1/3/2012	NE	30.00	NA	NA	NA	412.31		*
2Q12	442.31	NA	NM	NM	NA	NA	NA	NA		
3Q12	442.31	7/6/2012	NE	31.16	NA	NA	NA	411.15		*
4Q12	442.31	10/4/2012	NE	33.35	NA	NA	NA	408.96		*
P-43										
1Q10	444.07	1/1/2010	NE	37.44	NA	NA	NA	406.63	380.51 - 370.51 (63.56 - 73.56)	*
2Q10	444.07	4/1/2010	NE	36.02	NA	NA	NA	408.05		*
3Q10	444.07	7/1/2010	NE	34.68	NA	NA	NA	409.39		*
4Q10	444.07	10/1/2010	NE	33.29	NA	NA	NA	410.78		*
1Q11	444.07	1/1/2011	NE	33.09	NA	NA	NA	410.98		*
2Q11	444.07	4/1/2011	NE	32.75	NA	NA	NA	411.32		*
3Q11	444.07	7/5/2011	NE	30.78	NA	NA	NA	413.29		*
	444.07	9/19/2011	NE	31.87	NA	NA	NA	412.20		*
4Q11	444.07	10/6/2011	NE	32.18	NA	NA	NA	411.89		*
1Q12	444.07	1/3/2012	NE	33.24	NA	NA	NA	410.83		*
2Q12	444.07	4/2/2012	NE	34.17	NA	NA	NA	409.90		*
3Q12	444.07	7/2/2012	NE	34.95	NA	NA	NA	409.12		*
4Q12	444.07	10/1/2012	NE	36.80	NA	NA	NA	407.27		*
P-53										
1Q10	446.23	1/1/2010	NE	43.35	NA	NA	NA	402.88	407.73 - 382.73 (38.50 - 63.50)	
2Q10	446.23	4/1/2010	NE	42.17	NA	NA	NA	404.06		
3Q10	446.23	7/1/2010	NE	40.83	NA	NA	NA	405.40		
4Q10	446.23	10/1/2010	NE	39.33	NA	NA	NA	406.90		
1Q11	446.23	1/13/2011	NE	39.46	NA	NA	NA	406.77		
2Q11	446.23	4/1/2011	NE	39.99	NA	NA	NA	406.24		
3Q11	446.23	7/5/2011	NE	38.28	NA	NA	NA	407.95		*
	446.23	9/19/2011	NE	37.39	NA	NA	NA	408.84		*
4Q11	446.23	10/5/2011	NE	37.58	NA	NA	NA	408.65		*
1Q12	446.23	1/3/2012	NE	38.73	NA	NA	NA	407.50		
2Q12	446.23	4/2/2012	NM	NM	NA	NA	NA	NA		
3Q12	446.23	7/2/2012	NE	40.46	NA	NA	NA	405.77		
4Q12	446.23	10/1/2012	NE	41.88	NA	NA	NA	404.35		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-54										
1Q10	442.18	1/1/2010	NE	39.88	NA	NA	NA	402.30	404.18 - 379.18 (38.00 - 63.00)	
2Q10	442.18	4/1/2010	NE	38.53	NA	NA	NA	403.65		
3Q10	442.18	7/1/2010	NE	37.33	NA	NA	NA	404.85		*
4Q10	442.18	11/12/2010	NE	36.43	NA	NA	NA	405.75		*
1Q11	442.18	1/13/2011	NE	37.24	NA	NA	NA	404.94		*
2Q11	442.18	4/25/2011	NE	38.00	NA	NA	NA	404.18		
3Q11	442.18	7/5/2011	NE	35.38	NA	NA	NA	406.80		*
	442.18	9/19/2011	NE	34.78	NA	NA	NA	407.40		*
4Q11	442.18	10/5/2011	NE	35.01	NA	NA	NA	407.17		*
1Q12	442.18	1/3/2012	NE	37.17	NA	NA	NA	405.01		*
2Q12	442.18	4/2/2012	NE	38.48	NA	NA	NA	403.70		
3Q12	442.18	7/2/2012	NE	38.73	NA	NA	NA	403.45		
4Q12	442.18	10/1/2012	NE	40.44	NA	NA	NA	401.74		
P-55										
1Q10	445.95	1/1/2010	NE	44.14	NA	NA	NA	401.81	406.13 - 381.13 (39.82 - 64.82)	
2Q10	445.95	4/1/2010	NE	42.69	NA	NA	NA	403.26		
3Q10	445.95	7/1/2010	NE	41.81	NA	NA	NA	404.14		
4Q10	445.95	11/12/2010	NE	40.50	NA	NA	NA	405.45		
1Q11	445.95	1/13/2011	NE	40.56	NA	NA	NA	405.39		
2Q11	445.95	4/25/2011	41.52	41.54	404.41	404.43	0.02	404.43		
3Q11	445.95	7/5/2011	39.41	39.42	406.53	406.54	0.01	406.54		*
	445.95	9/19/2011	NE	38.57	NA	NA	NA	407.38		*
4Q11	445.95	10/6/2011	NE	38.61	NA	NA	NA	407.34		*
1Q12	445.95	1/4/2012	NE	40.71	NA	NA	NA	405.24		
2Q12	445.95	4/2/2012	NE	42.04	NA	NA	NA	403.91		
3Q12	445.95	7/2/2012	NE	42.33	NA	NA	NA	403.62		
4Q12	445.95	10/1/2012	NE	44.17	NA	NA	NA	401.78		
P-56										
1Q10	446.02	1/1/2010	NE	43.99	NA	NA	NA	402.03	405.20 - 380.20 (40.82 - 65.82)	
2Q10	446.02	4/1/2010	NE	42.71	NA	NA	NA	403.31		
3Q10	446.02	7/1/2010	NE	41.99	NA	NA	NA	404.03		
4Q10	446.02	11/11/2010	NE	40.94	NA	NA	NA	405.08		
1Q11	446.02	1/13/2011	NE	41.03	NA	NA	NA	404.99		
2Q11	446.02	4/25/2011	NE	42.16	NA	NA	NA	403.86		
3Q11	446.02	7/5/2011	NE	39.63	NA	NA	NA	406.39		*
	446.02	9/19/2011	NE	38.88	NA	NA	NA	407.14		*
4Q11	446.02	10/6/2011	NE	39.10	NA	NA	NA	406.92		*
1Q12	446.02	1/4/2012	NE	41.51	NA	NA	NA	404.51		
2Q12	446.02	4/3/2012	NE	42.88	NA	NA	NA	403.14		
3Q12	446.02	7/5/2012	NE	43.01	NA	NA	NA	403.01		
4Q12	446.02	10/2/2012	NE	44.76	NA	NA	NA	401.26		
P-57										
1Q10	446.53	1/1/2010	NE	44.02	NA	NA	NA	402.51	406.07 - 381.07 (40.46 - 65.46)	
2Q10	446.53	4/1/2010	NE	42.73	NA	NA	NA	403.80		
3Q10	446.53	7/1/2010	NE	41.60	NA	NA	NA	404.93		
4Q10	446.53	11/12/2010	NE	40.64	NA	NA	NA	405.89		
1Q11	446.53	1/13/2011	NE	41.04	NA	NA	NA	405.49		
2Q11	446.53	4/25/2011	NE	41.88	NA	NA	NA	404.65		
3Q11	446.53	7/5/2011	NE	39.48	NA	NA	NA	407.05		*
	446.53	9/19/2011	NE	39.92	NA	NA	NA	406.61		*
4Q11	446.53	10/6/2011	NE	39.20	NA	NA	NA	407.33		*
1Q12	446.53	2/13/2012	NE	42.13	NA	NA	NA	404.40		
2Q12	446.53	4/4/2012	NE	42.61	NA	NA	NA	403.92		
3Q12	446.53	7/5/2012	NE	43.00	NA	NA	NA	403.53		
4Q12	446.53	10/1/2012	NE	44.78	NA	NA	NA	401.75		
P-58										
1Q10	444.92	1/1/2010	NE	42.00	NA	NA	NA	402.92	404.70 - 379.70 (40.21 - 65.21)	
2Q10	444.92	4/1/2010	NE	40.76	NA	NA	NA	404.16		Oily film observed on probe but no product response observed from probe or product paste.
3Q10	444.92	7/1/2010	39.42	39.46	405.46	405.50	0.04	405.49		*Product confirmed on interface probe.
4Q10	444.92	11/12/2010	NE	38.51	NA	NA	NA	406.41		*
1Q11	444.92	1/13/2011	NE	39.10	NA	NA	NA	405.82		*No tone; product paste turned
2Q11	444.92	4/25/2011	NE	39.78	NA	NA	NA	405.14		*No tone; product paste turned
3Q11	444.92	7/5/2011	NE	37.42	NA	NA	NA	407.50		*
	444.92	9/19/2011	NE	37.02	NA	NA	NA	407.90		*
4Q11	444.92	10/6/2011	NE	37.31	NA	NA	NA	407.61		*
1Q12	444.92	1/4/2012	NE	39.41	NA	NA	NA	405.51		*
2Q12	444.92	4/3/2012	NE	40.81	NA	NA	NA	404.11		
3Q12	444.92	7/5/2012	NE	41.04	NA	NA	NA	403.88		
4Q12	444.92	10/2/2012	NE	42.90	NA	NA	NA	402.02		
P-59										
1Q10	446.78	1/1/2010	NE	44.91	NA	NA	NA	401.87	398.87 - 373.87 (47.91 - 72.91)	*
2Q10	446.78	4/1/2010	NE	43.59	NA	NA	NA	403.19		*Oily film observed on probe but no product response observed from probe or product paste.
3Q10	446.78	7/1/2010	43.21	43.23	403.55	403.57	0.02	403.57		*Product confirmed on interface probe.
4Q10	446.78	11/12/2010	NE	42.13	NA	NA	NA	404.65		*
1Q11	446.78	1/13/2011	NE	42.16	NA	NA	NA	404.62		*No tone; product paste turned
2Q11	446.78	4/25/2011	43.25	43.26	403.52	403.53	0.01	403.53		*No tone; product paste turned
3Q11	446.78	7/5/2011	NE	41.44	NA	NA	NA	405.34		*
	446.78	9/19/2011	NE	40.56	NA	NA	NA	406.22		*
4Q11	446.78	10/6/2011	NE	40.77	NA	NA	NA	406.01		*
1Q12	446.78	1/4/2012	NE	42.61	NA	NA	NA	404.17		*
2Q12	446.78	4/4/2012	NE	43.82	NA	NA	NA	402.96		*
3Q12	446.78	7/5/2012	NE	44.00	NA	NA	NA	402.78		*
4Q12	446.78	10/2/2012	NE	45.83	NA	NA	NA	400.95		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-60										
1Q10	446.57	1/1/2010	44.83	45.08	401.49	401.74	0.25	401.69	403.12 - 383.12 (43.45 - 63.45)	Product confirmed on interface probe.
2Q10	446.57	4/1/2010	43.45	43.73	402.84	403.12	0.28	403.07		Product confirmed on interface probe.
3Q10	446.57	7/1/2010	42.61	43.18	403.39	403.96	0.57	403.85		*Product confirmed on interface probe.
4Q10	446.57	11/11/2010	41.40	41.44	405.13	405.17	0.04	405.16		*
1Q11	446.57	1/14/2011	41.68	41.72	404.85	404.89	0.04	404.88		*
2Q11	446.57	4/25/2011	42.72	43.18	403.39	403.85	0.46	403.76		*
3Q11	446.57	7/5/2011	40.41	40.77	405.80	406.16	0.36	406.09		*
	446.57	9/19/2011	39.54	39.89	406.68	407.03	0.35	406.96		*
4Q11	446.57	10/6/2011	39.72	40.06	406.51	406.85	0.34	406.79		*
1Q12	446.57	1/4/2012	NE	41.98	NA	NA	NA	404.59		*
2Q12	446.57	4/3/2012	43.46	43.48	403.09	403.11	0.02	403.11		
3Q12	446.57	7/5/2012	43.51	43.55	403.02	403.06	0.04	403.05		
4Q12	446.57	10/2/2012	45.33	45.44	401.13	401.24	0.11	401.22		
P-60-11										
4Q10	443.39	11/11/2010	NE	40.91	NA	NA	NA	402.48	413.03 - 383.03 (33.15 - 63.15)	
1Q11	443.39	1/14/2011	NE	41.14	NA	NA	NA	402.25		
2Q11	443.39	4/25/2011	NE	42.22	NA	NA	NA	401.17		
3Q11	446.18	7/5/2011	NE	39.97	NA	NA	NA	406.21		
	446.18	9/19/2011	NE	39.07	NA	NA	NA	407.11		
4Q11	446.18	10/6/2011	NE	39.25	NA	NA	NA	406.93		
1Q12	446.18	1/4/2012	NE	41.22	NA	NA	NA	404.96		
2Q12	446.18	4/3/2012	NE	42.65	NA	NA	NA	403.53		
3Q12	446.18	7/5/2012	NE	42.64	NA	NA	NA	403.54		
4Q12	446.18	10/2/2012	44.32	44.41	401.77	401.86	0.09	401.84		
P-60-12										
4Q10	443.31	11/11/2010	NE	38.19	NA	NA	NA	405.12	383.31 - 373.31 (60.00 - 70.00)	*
1Q11	443.31	1/14/2011	NE	38.51	NA	NA	NA	404.80		*
2Q11	443.31	4/25/2011	NE	39.63	NA	NA	NA	403.68		*
3Q11	443.31	7/5/2011	NE	37.27	NA	NA	NA	406.04		*
	443.31	9/19/2011	NE	36.41	NA	NA	NA	406.90		*
4Q11	443.31	10/6/2011	NE	36.53	NA	NA	NA	406.78		*
1Q12	443.31	1/4/2012	NE	38.76	NA	NA	NA	404.55		*
2Q12	443.31	4/3/2012	NE	40.25	NA	NA	NA	403.06		*
3Q12	443.31	7/5/2012	NE	40.23	NA	NA	NA	403.08		*
4Q12	443.31	10/2/2012	NE	44.15	NA	NA	NA	399.16		*
P-60-12S	***(PERCHED WELL)***									
4Q10	443.33	11/11/2010	NE	23.36	NA	NA	NA	419.97	429.49 - 419.49 (13.84 - 23.84)	
1Q11	443.33	1/14/2011	NM	NM	NA	NA	NA	NA		
2Q11	443.33	4/25/2011	NE	21.84	NA	NA	NA	421.49		
3Q11	443.33	7/5/2011	21.10	21.11	422.22	422.23	0.01	422.23		
4Q11	443.33	10/6/2011	NE	23.36	NA	NA	NA	419.97		
1Q12	443.33	1/4/2012	NE	22.81	NA	NA	NA	420.52		
2Q12	443.33	4/3/2012	NE	20.21	NA	NA	NA	423.12		
3Q12	443.33	7/5/2012	NE	19.48	NA	NA	NA	423.85		
4Q12	443.33	10/2/2012	NE	19.04	NA	NA	NA	424.29		
P-60-13										
4Q10	442.43	11/11/2010	37.50	37.87	404.56	404.93	0.37	404.86	402.43 - 382.43 (40.00 - 60.00)	*
1Q11	442.43	1/14/2011	37.73	37.74	404.69	404.70	0.01	404.70		*
2Q11	442.43	4/25/2011	38.80	39.10	403.33	403.63	0.30	403.57		*
3Q11	442.43	7/5/2011	36.85	36.99	405.44	405.58	0.14	405.55		*
	442.43	9/19/2011	NE	35.72	NA	NA	NA	406.71		*
4Q11	442.43	10/6/2011	NE	35.86	NA	NA	NA	406.57		*
1Q12	442.43	1/4/2012	NE	37.82	NA	NA	NA	404.61		*
2Q12	442.43	4/3/2012	NE	39.21	NA	NA	NA	403.22		*
3Q12	442.43	7/5/2012	NE	39.37	NA	NA	NA	403.06		*
4Q12	442.43	10/2/2012	NE	40.61	NA	NA	NA	401.82		
P-60-13S	***(PERCHED WELL)***									
4Q10	442.39	11/11/2010	NE	13.36	NA	NA	NA	429.03	432.39 - 422.39 (10.00 - 20.00)	
1Q11	442.39	1/14/2011	NE	NE	NA	NA	NA	NA		
2Q11	442.39	4/25/2011	NE	17.45	NA	NA	NA	424.94		
3Q11	442.39	7/5/2011	NE	17.08	NA	NA	NA	425.31		
4Q11	442.39	10/6/2011	NE	18.44	NA	NA	NA	423.95		
1Q12	442.39	1/4/2012	NE	17.66	NA	NA	NA	424.73		
2Q12	442.39	4/3/2012	NE	17.58	NA	NA	NA	424.81		
3Q12	442.39	7/5/2012	NE	17.87	NA	NA	NA	424.52		
4Q12	442.39	10/2/2012	NE	17.97	NA	NA	NA	424.42		
P-60-S										
3Q11	446.98	7/5/2011	NE	40.81	NA	NA	NA	406.17	410.50 - 395.50 (36.48 - 51.48)	
	446.98	9/19/2011	39.40	39.61	407.37	407.58	0.21	407.54		
1Q12	446.98	1/4/2012	41.39	41.90	405.08	405.59	0.51	405.49		
2Q12	446.98	4/3/2012	42.85	43.28	403.70	404.13	0.43	404.04		
3Q12	446.98	7/5/2012	43.12	43.26	403.72	403.86	0.14	403.83		
4Q12	446.98	10/4/2012	43.94	45.84	401.14	403.04	1.90	402.66		
P-61										
1Q10	444.27	1/1/2010	43.33	43.53	400.74	400.94	0.20	400.90	398.59 - 373.59 (45.68 - 70.68)	*Product confirmed on interface probe.
2Q10	444.27	4/1/2010	41.97	42.09	402.18	402.30	0.12	402.27		*Product confirmed on interface probe.
3Q10	444.27	7/1/2010	41.04	41.18	403.09	403.23	0.14	403.20		*Product confirmed on interface probe.
4Q10	444.27	11/11/2010	39.91	40.03	404.24	404.36	0.12	404.33		*
1Q11	444.27	1/13/2011	38.81	38.94	405.33	405.46	0.13	405.43		*
2Q11	444.27	4/25/2011	NE	40.93	NA	NA	NA	403.34		*
3Q11	444.27	7/5/2011	37.58	37.59	406.68	406.69	0.01	406.69		*
	444.27	9/19/2011	NE	37.36	NA	NA	NA	406.91		*
4Q11	444.27	10/6/2011	NE	37.63	NA	NA	NA	406.64		*
1Q12	444.27	1/3/2012	NE	40.34	NA	NA	NA	403.93		*
2Q12	444.27	4/3/2012	NE	41.50	NA	NA	NA	402.77		*
3Q12	444.27	7/3/2012	NE	41.53	NA	NA	NA	402.74		*
4Q12	444.27	10/2/2012	NE	43.36	NA	NA	NA	400.91		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-62										
1Q10	442.32	1/1/2010	41.02	42.62	399.70	401.30	1.60	400.98	400.85 - 375.85 (41.47 - 66.47)	*Product confirmed on interface probe.
2Q10	442.32	4/1/2010	39.56	40.90	401.42	402.76	1.34	402.50		*Product confirmed on interface probe.
3Q10	442.32	7/1/2010	38.51	39.96	402.36	403.81	1.45	403.52		*Product confirmed on interface probe.
4Q10	442.32	11/11/2010	37.14	38.57	403.75	405.18	1.43	404.90		*
1Q11	442.32	1/13/2011	36.39	37.81	404.51	405.93	1.42	405.65		*
2Q11	442.32	4/25/2011	NE	38.18	NA	NA	NA	404.14		*
3Q11	442.32	7/5/2011	35.62	35.63	406.69	406.70	0.01	406.70		*
	442.32	9/19/2011	35.39	35.41	406.91	406.93	0.02	406.93		*
4Q11	442.32	10/6/2011	NE	35.64	NA	NA	NA	406.68		*
1Q12	442.32	1/3/2012	37.68	37.71	404.61	404.64	0.03	404.64		*
2Q12	442.32	4/3/2012	NE	30.94	NA	NA	NA	411.38		*Result is suspect
3Q12	442.32	7/3/2012	39.13	39.15	403.17	403.19	0.02	403.19		*
4Q12	442.32	10/1/2012	40.61	42.35	399.97	401.71	1.74	401.37		*
P-63										
1Q10	445.75	1/1/2010	45.08	45.26	400.49	400.67	0.18	400.63	398.46 - 373.46 (47.29 - 72.29)	*Product confirmed on interface probe.
2Q10	445.75	4/1/2010	43.53	43.72	402.03	402.22	0.19	402.18		*Product confirmed on interface probe.
3Q10	445.75	7/1/2010	42.32	42.52	403.23	403.43	0.20	403.39		*Product confirmed on interface probe.
4Q10	445.75	10/1/2010	40.58	40.79	404.96	405.17	0.21	405.13		*Product confirmed on interface probe.
1Q11	445.75	1/13/2011	39.48	39.68	406.07	406.27	0.20	406.23		*
2Q11	445.75	4/1/2011	NE	41.11	NA	NA	NA	404.64		*
3Q11	445.75	7/5/2011	NE	38.56	NA	NA	NA	407.19		*
	445.75	9/19/2011	NE	39.12	NA	NA	NA	406.63		*
4Q11	445.75	10/6/2011	NE	39.20	NA	NA	NA	406.55		*
1Q12	445.75	1/3/2012	NE	40.65	NA	NA	NA	405.10		*
2Q12	445.75	4/3/2012	NE	42.09	NA	NA	NA	403.66		*
3Q12	445.75	7/3/2012	NE	42.94	NA	NA	NA	402.81		*
4Q12	445.75	10/1/2012	NE	44.55	NA	NA	NA	401.20		*
P-64										
1Q10	446.52	1/1/2010	46.32	46.37	400.15	400.20	0.05	400.19	399.29 - 374.29 (47.23 - 72.23)	*Product confirmed on interface probe.
2Q10	446.52	4/1/2010	44.61	44.70	401.82	401.91	0.09	401.89		*Product confirmed on interface probe.
3Q10	446.52	7/1/2010	43.46	43.61	402.91	403.06	0.15	403.03		*Product confirmed on interface probe.
4Q10	446.52	10/1/2010	41.45	41.56	404.96	405.07	0.11	405.05		*Product confirmed on interface probe.
1Q11	446.52	1/13/2011	40.14	40.46	406.06	406.38	0.32	406.32		*
2Q11	446.52	4/1/2011	41.77	41.86	404.66	404.75	0.09	404.73		*
3Q11	446.52	7/5/2011	39.25	39.42	407.10	407.27	0.17	407.24		*
	446.52	9/19/2011	40.10	41.10	405.42	406.42	1.00	406.22		*
4Q11	446.52	10/6/2011	40.35	40.53	405.99	406.17	0.18	406.13		*
1Q12	446.52	1/3/2012	41.68	41.75	404.77	404.84	0.07	404.83		*
2Q12	446.52	4/3/2012	43.18	43.19	403.33	403.34	0.01	403.34		*
3Q12	446.52	7/3/2012	44.40	44.41	402.11	402.12	0.01	402.12		*
4Q12	446.52	10/1/2012	45.62	45.68	400.84	400.90	0.06	400.89		*
P-65										
1Q10	444.53	1/1/2010	NE	34.11	NA	NA	NA	410.42	396.91 - 371.91 (47.61 - 72.61)	*
2Q10	444.53	4/1/2010	41.33	41.34	403.19	403.20	0.01	403.20		*Product confirmed on interface probe.
3Q10	444.53	7/1/2010	44.34	44.35	400.18	400.19	0.01	400.19		*Product confirmed on interface probe.
4Q10	444.53	10/1/2010	38.61	38.63	405.90	405.92	0.02	405.92		*Product confirmed on interface probe.
1Q11	444.53	1/13/2011	37.73	37.74	406.79	406.80	0.01	406.80		*
2Q11	444.53	4/1/2011	NE	39.20	NA	NA	NA	405.33		*
3Q11	444.53	7/5/2011	NE	36.87	NA	NA	NA	407.66		*
	444.53	9/19/2011	NE	37.54	NA	NA	NA	406.99		*
4Q11	444.53	10/6/2011	NE	37.67	NA	NA	NA	406.86		*
1Q12	444.53	1/3/2012	NE	39.15	NA	NA	NA	405.38		*
2Q12	444.53	4/3/2012	NE	40.76	NA	NA	NA	403.77		*
3Q12	444.53	7/3/2012	NE	41.76	NA	NA	NA	402.77		*
4Q12	444.53	10/1/2012	NE	43.00	NA	NA	NA	401.53		*
P-66										
1Q10	436.70	1/1/2010	NE	33.49	NA	NA	NA	403.21	401.98 - 376.98 (34.72 - 59.72)	*
2Q10	436.70	4/1/2010	NE	32.30	NA	NA	NA	404.40		*
3Q10	436.70	7/1/2010	30.81	30.83	405.87	405.89	0.02	405.89		*Product confirmed on interface probe.
4Q10	436.70	11/12/2010	NE	30.02	NA	NA	NA	406.68		*
1Q11	436.70	1/13/2011	NE	30.70	NA	NA	NA	406.00		*
2Q11	436.70	4/25/2011	NE	31.26	NA	NA	NA	405.44		*
3Q11	436.70	7/5/2011	NE	28.87	NA	NA	NA	407.83		*
	436.70	9/19/2011	NE	28.64	NA	NA	NA	408.06		*
4Q11	436.70	10/5/2011	NE	28.92	NA	NA	NA	407.78		*
1Q12	436.70	1/3/2012	NM	NM	NA	NA	NA	NA		Restricted Area
2Q12	436.70	4/2/2012	NM	NM	NA	NA	NA	NA		Restricted Area
3Q12	436.70	7/5/2012	32.60	32.61	404.09	404.10	0.01	404.10		*
4Q12	436.70	10/2/2012	NE	34.55	NA	NA	NA	402.15		*
P-67										
1Q10	444.13	1/1/2010	39.96	39.98	404.15	404.17	0.02	404.17	402.16 - 377.16 (41.98 - 66.98)	*Product confirmed on interface probe.
2Q10	444.13	4/1/2010	38.78	38.80	405.33	405.35	0.02	405.35		*Product confirmed on interface probe.
3Q10	444.13	7/1/2010	37.27	37.46	406.67	406.86	0.19	406.82		*Product confirmed on interface probe.
4Q10	444.13	10/1/2010	36.27	36.31	407.82	407.86	0.04	407.85		*Product confirmed on interface probe.
1Q11	444.13	1/13/2011	36.75	36.78	407.35	407.38	0.03	407.37		*
2Q11	444.13	4/1/2011	NE	37.24	NA	NA	NA	406.89		*
3Q11	444.13	7/5/2011	NE	35.17	NA	NA	NA	408.96		*
	444.13	9/19/2011	NE	35.16	NA	NA	NA	408.97		*
4Q11	444.13	10/5/2011	NE	35.38	NA	NA	NA	408.75		*
1Q12	444.13	1/4/2012	NE	37.08	NA	NA	NA	407.05		*
2Q12	444.13	4/3/2012	NE	38.50	NA	NA	NA	405.63		*
3Q12	444.13	7/2/2012	NE	38.90	NA	NA	NA	405.23		*
4Q12	444.13	10/2/2012	NE	40.81	NA	NA	NA	403.32		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-68										
1Q10	445.07	1/1/2010	42.44	46.62	398.45	402.63	4.18	401.80	399.81 - 374.81 (45.26 - 70.26)	*Product confirmed on interface probe.
2Q10	445.07	4/1/2010	40.94	48.15	396.92	404.13	7.21	402.69		*Product confirmed on interface probe.
3Q10	445.07	7/1/2010	40.50	44.65	400.42	404.57	4.15	403.74		*Product confirmed on interface probe.
4Q10	445.07	11/12/2010	39.32	43.42	401.65	405.75	4.10	404.93		*
1Q11	445.07	1/13/2011	39.15	43.18	401.89	405.92	4.03	405.12		*
2Q11	445.07	4/25/2011	41.42	41.51	403.56	403.65	0.09	403.63		*
3Q11	445.07	7/5/2011	39.06	39.13	405.94	406.01	0.07	406.00		*
	445.07	9/19/2011	39.01	39.03	406.04	406.06	0.02	406.06		*
4Q11	445.07	10/6/2011	38.53	38.58	406.49	406.54	0.05	406.53		*
1Q12	445.07	1/4/2012	40.53	40.61	404.46	404.54	0.08	404.52		*
2Q12	445.07	4/3/2012	NE	42.08	NA	NA	NA	402.99		*
3Q12	445.07	7/5/2012	42.08	42.12	402.95	402.99	0.04	402.98		*
4Q12	445.07	10/2/2012	43.85	44.04	401.03	401.22	0.19	401.18		*
P-69										
1Q10	443.18	1/1/2010	41.87	41.92	401.26	401.31	0.05	401.30	402.36 - 377.36 (40.82 - 65.82)	Product confirmed on interface probe.
2Q10	443.18	4/1/2010	40.39	40.42	402.76	402.79	0.03	402.79		*Product confirmed on interface probe.
3Q10	443.18	7/1/2010	NE	40.14	NA	NA	NA	403.04		*
4Q10	443.18	11/11/2010	38.99	39.02	404.16	404.19	0.03	404.19		*
1Q11	443.18	1/13/2011	38.62	38.63	404.55	404.56	0.01	404.56		*
2Q11	443.18	4/25/2011	NE	39.98	NA	NA	NA	403.20		*
3Q11	443.18	7/5/2011	NE	37.41	NA	NA	NA	405.77		*
	443.18	9/19/2011	NE	36.62	NA	NA	NA	406.56		*
4Q11	443.18	10/6/2011	NE	36.77	NA	NA	NA	406.41		*
1Q12	443.18	1/4/2012	NE	39.18	NA	NA	NA	404.00		*
2Q12	443.18	4/3/2012	NE	40.59	NA	NA	NA	402.59		*
3Q12	443.18	7/5/2012	NE	40.61	NA	NA	NA	402.57		*
4Q12	443.18	10/2/2012	NE	42.46	NA	NA	NA	400.72		
P-70										
1Q10	442.83	1/1/2010	41.65	41.84	400.99	401.18	0.19	401.14	398.16 - 373.16 (44.67 - 69.67)	*Product confirmed on interface probe.
2Q10	442.83	4/1/2010	40.21	40.67	402.16	402.62	0.46	402.53		*Product confirmed on interface probe.
3Q10	442.83	7/1/2010	39.42	39.86	402.97	403.41	0.44	403.32		*Product confirmed on interface probe.
4Q10	442.83	11/11/2010	38.20	38.69	404.14	404.63	0.49	404.53		*
1Q11	442.83	1/13/2011	37.48	37.90	404.93	405.35	0.42	405.27		*
2Q11	442.83	4/25/2011	39.20	39.22	403.61	403.63	0.02	403.62		*
3Q11	442.83	7/5/2011	36.42	36.43	406.40	406.41	0.01	406.41		*
	442.83	9/19/2011	NE	35.98	NA	NA	NA	406.85		*
4Q11	442.83	10/6/2011	NE	36.25	NA	NA	NA	406.58		*
1Q12	442.83	1/3/2012	NE	38.62	NA	NA	NA	404.21		*
2Q12	442.83	4/3/2012	NE	39.80	NA	NA	NA	403.03		*
3Q12	442.83	7/3/2012	NE	39.83	NA	NA	NA	403.00		*
4Q12	442.83	10/1/2012	NE	41.67	NA	NA	NA	401.16		*
P-71										
1Q10	444.83	1/1/2010	NE	42.64	NA	NA	NA	402.19	402.22 - 377.22 (42.61 - 67.61)	
2Q10	444.83	4/1/2010	NE	41.31	NA	NA	NA	403.52		*
3Q10	444.83	7/1/2010	NE	40.20	NA	NA	NA	404.63		*
4Q10	444.83	11/11/2010	NE	38.92	NA	NA	NA	405.91		*
1Q11	444.83	1/13/2011	NE	38.32	NA	NA	NA	406.51		*
2Q11	444.83	4/25/2011	NE	39.52	NA	NA	NA	405.31		*
3Q11	444.83	7/5/2011	NE	37.91	NA	NA	NA	406.92		*
	444.83	9/19/2011	NE	37.71	NA	NA	NA	407.12		*
4Q11	444.83	10/6/2011	NE	47.31	NA	NA	NA	397.52		
1Q12	444.83	1/3/2012	NE	38.91	NA	NA	NA	405.92		*
2Q12	444.83	4/3/2012	NE	40.34	NA	NA	NA	404.49		*
3Q12	444.83	7/3/2012	NE	40.90	NA	NA	NA	403.93		*
4Q12	444.83	10/2/2012	42.69	42.75	402.08	402.14	0.06	402.13		
P-72										
1Q10	444.43	1/1/2010	41.83	41.87	402.56	402.60	0.04	402.59	398.70 - 373.70 (45.77 - 70.77)	*Product confirmed on interface probe.
2Q10	444.43	4/1/2010	40.36	40.39	404.04	404.07	0.03	404.06		*Product confirmed on interface probe.
3Q10	444.43	7/1/2010	NM	NM	NA	NA	NA	NA		Tank yard flooded, unable to access.
4Q10	444.43	11/11/2010	38.01	38.06	406.37	406.42	0.05	406.41		*
1Q11	444.43	1/13/2011	37.65	37.66	406.77	406.78	0.01	406.78		*
2Q11	444.43	4/25/2011	38.78	38.80	405.63	405.65	0.02	405.65		*
3Q11	444.43	7/5/2011	37.02	37.03	407.40	407.41	0.01	407.41		*
	444.43	9/19/2011	NE	36.60	NA	NA	NA	407.83		*
4Q11	444.43	10/6/2011	NE	36.82	NA	NA	NA	407.61		*
1Q12	444.43	1/3/2012	NE	38.43	NA	NA	NA	406.00		*
2Q12	444.43	4/3/2012	NE	39.58	NA	NA	NA	404.85		*
3Q12	444.43	7/3/2012	NE	40.30	NA	NA	NA	404.13		*
4Q12	444.43	10/1/2012	NE	41.88	NA	NA	NA	402.55		*
P-73										
1Q10	443.76	1/1/2010	NE	41.39	NA	NA	NA	402.37	402.17 - 377.17 (41.60 - 66.60)	*
2Q10	443.76	4/1/2010	NE	40.15	NA	NA	NA	403.61		*
3Q10	443.76	7/1/2010	40.24	41.26	402.50	403.52	1.02	403.32		*Product confirmed on interface probe.
4Q10	443.76	11/11/2010	NE	38.10	NA	NA	NA	405.66		*
1Q11	443.76	1/13/2011	NE	38.10	NA	NA	NA	405.66		*
2Q11	443.76	4/25/2011	NE	39.13	NA	NA	NA	404.63		*
3Q11	443.76	7/5/2011	NE	36.88	NA	NA	NA	406.88		*
	443.76	9/19/2011	NE	36.38	NA	NA	NA	407.38		*
4Q11	443.76	10/6/2011	NE	36.68	NA	NA	NA	407.08		*
1Q12	443.76	1/4/2012	NE	38.68	NA	NA	NA	405.08		*
2Q12	443.76	4/3/2012	NE	40.03	NA	NA	NA	403.73		*
3Q12	443.76	7/5/2012	NE	40.28	NA	NA	NA	403.48		*
4Q12	443.76	10/2/2012	NE	42.02	NA	NA	NA	401.74		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-74										
1Q10	442.63	1/1/2010	NE	40.90	NA	NA	NA	401.73	398.20 - 373.20 (44.43 - 69.43)	*
2Q10	442.63	4/1/2010	NE	39.07	NA	NA	NA	403.56		*
3Q10	442.63	7/1/2010	NE	38.88	NA	NA	NA	403.75		*
4Q10	442.63	11/12/2010	NE	38.29	NA	NA	NA	404.34		*
1Q11	442.63	1/13/2011	NE	37.94	NA	NA	NA	404.69		*
2Q11	442.63	4/25/2011	NE	39.18	NA	NA	NA	403.45		*
3Q11	442.63	7/5/2011	NE	36.51	NA	NA	NA	406.12		*
	442.63	9/19/2011	NE	35.86	NA	NA	NA	406.77		*
4Q11	442.63	10/6/2011	NE	36.26	NA	NA	NA	406.37		*
1Q12	442.63	1/4/2012	NE	38.56	NA	NA	NA	404.07		*
2Q12	442.63	4/3/2012	NE	39.94	NA	NA	NA	402.69		*
3Q12	442.63	7/5/2012	NE	40.00	NA	NA	NA	402.63		*
4Q12	442.63	10/2/2012	NE	41.78	NA	NA	NA	400.85		*
P-75										
1Q10	446.32	1/1/2010	NE	43.05	NA	NA	NA	403.27	403.19 - 378.19 (43.13 - 68.13)	*
2Q10	446.32	4/1/2010	42.01	42.30	404.02	404.31	0.29	404.26		*Product confirmed on interface probe.
3Q10	446.32	7/1/2010	40.58	40.87	405.45	405.74	0.29	405.69		*Product confirmed on interface probe.
4Q10	446.32	11/11/2010	39.72	40.00	406.32	406.60	0.28	406.55		*
1Q11	446.32	1/13/2011	40.04	40.43	405.89	406.28	0.39	406.21		*
2Q11	446.32	4/25/2011	40.81	40.83	405.49	405.51	0.02	405.51		*
3Q11	446.32	7/5/2011	38.57	38.59	407.73	407.75	0.02	407.75		*
	446.32	9/19/2011	NE	38.31	NA	NA	NA	408.01		*
4Q11	446.32	10/5/2011	38.52	38.53	407.79	407.80	0.01	407.80		*
1Q12	446.32	1/4/2012	NE	40.48	NA	NA	NA	405.84		*
2Q12	446.32	4/4/2012	NE	41.62	NA	NA	NA	404.70		*
3Q12	446.32	7/2/2012	42.14	42.14	404.18	404.18	0.00	404.18		*
4Q12	446.32	10/2/2012	44.10	44.20	402.12	402.22	0.10	402.20		
P-82A										
1Q10	434.69	1/1/2010	NE	27.98	NA	NA	NA	406.71	401.48 - 386.48 (33.21 - 48.21)	*
2Q10	434.69	4/1/2010	NE	26.62	NA	NA	NA	408.07		*
3Q10	434.69	7/1/2010	NE	25.00	NA	NA	NA	409.69		*
4Q10	434.69	10/1/2010	NE	24.07	NA	NA	NA	410.62		*
1Q11	434.69	1/13/2011	NE	25.29	NA	NA	NA	409.40		*
2Q11	434.69	4/1/2011	NE	25.12	NA	NA	NA	409.57		*
3Q11	434.69	7/5/2011	NE	23.01	NA	NA	NA	411.68		*
	434.69	9/19/2011	NE	23.62	NA	NA	NA	411.07		*
4Q11	434.69	10/5/2011	NE	24.00	NA	NA	NA	410.69		*
1Q12	434.69	1/3/2012	NE	25.50	NA	NA	NA	409.19		*
2Q12	434.69	4/2/2012	NE	26.82	NA	NA	NA	407.87		*
3Q12	434.69	7/2/2012	NE	27.34	NA	NA	NA	407.35		*
4Q12	434.69	10/2/2012	NE	29.07	NA	NA	NA	405.62		*
P-82B										
1Q10	434.44	1/1/2010	NE	27.69	NA	NA	NA	406.75	370.84 - 368.84 (63.60 - 65.60)	*
2Q10	434.44	4/1/2010	NE	26.33	NA	NA	NA	408.11		*
3Q10	434.44	7/1/2010	NE	24.71	NA	NA	NA	409.73		*
4Q10	434.44	10/1/2010	NE	23.78	NA	NA	NA	410.66		*
1Q11	434.44	1/13/2011	NE	25.01	NA	NA	NA	409.43		*
2Q11	434.44	4/1/2011	NE	24.85	NA	NA	NA	409.59		*
3Q11	434.44	7/5/2011	NE	22.71	NA	NA	NA	411.73		*
	434.44	9/19/2011	NE	23.36	NA	NA	NA	411.08		*
4Q11	434.44	10/5/2011	NE	23.73	NA	NA	NA	410.71		*
1Q12	434.44	1/3/2012	NE	25.21	NA	NA	NA	409.23		*
2Q12	434.44	4/2/2012	NE	26.55	NA	NA	NA	407.89		*
3Q12	434.44	7/2/2012	NE	27.07	NA	NA	NA	407.37		*
4Q12	434.44	10/2/2012	NE	28.81	NA	NA	NA	405.63		*
P-82C										
1Q10	434.16	1/1/2010	NE	27.39	NA	NA	NA	406.77	351.39 - 349.39 (82.77 - 84.77)	*
2Q10	434.16	4/1/2010	NE	26.05	NA	NA	NA	408.11		*
3Q10	434.16	7/1/2010	NE	25.47	NA	NA	NA	408.69		*
4Q10	434.16	10/1/2010	NE	23.49	NA	NA	NA	410.67		*
1Q11	434.16	1/13/2011	NE	24.73	NA	NA	NA	409.43		*
2Q11	434.16	4/1/2011	NE	24.87	NA	NA	NA	409.29		*
3Q11	434.16	7/5/2011	NE	22.75	NA	NA	NA	411.41		*
	434.16	9/19/2011	NE	23.40	NA	NA	NA	410.76		*
4Q11	434.16	10/5/2011	NE	23.81	NA	NA	NA	410.35		*
1Q12	434.16	1/3/2012	NE	25.26	NA	NA	NA	408.90		*
2Q12	434.16	4/2/2012	NE	26.61	NA	NA	NA	407.55		*
3Q12	434.16	7/2/2012	NE	27.11	NA	NA	NA	407.05		*
4Q12	434.16	10/2/2012	NE	28.85	NA	NA	NA	405.31		*
P-82D										
1Q10	434.85	1/1/2010	NE	28.60	NA	NA	NA	406.25	323.43 - 321.43 (111.42 - 113.42)	*
2Q10	434.85	4/1/2010	NE	26.82	NA	NA	NA	408.03		*
3Q10	434.85	7/1/2010	NE	25.20	NA	NA	NA	409.65		*
4Q10	434.85	10/1/2010	NE	24.26	NA	NA	NA	410.59		*
1Q11	434.85	1/13/2011	NE	25.48	NA	NA	NA	409.37		*
2Q11	434.85	4/1/2011	NE	25.63	NA	NA	NA	409.22		*
3Q11	434.85	7/5/2011	NE	23.54	NA	NA	NA	411.31		*
	434.85	9/19/2011	NE	24.16	NA	NA	NA	410.69		*
4Q11	434.85	10/5/2011	NE	24.56	NA	NA	NA	410.29		*
1Q12	434.85	1/3/2012	NE	26.06	NA	NA	NA	408.79		*
2Q12	434.85	4/2/2012	NE	27.37	NA	NA	NA	407.48		*
3Q12	434.85	7/2/2012	NE	27.91	NA	NA	NA	406.94		*
4Q12	434.85	10/2/2012	NE	29.62	NA	NA	NA	405.23		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-83A										
1Q10	445.23	1/1/2010	NE	43.61	NA	NA	NA	401.62	398.58 - 383.58 (46.65 - 61.65)	*
2Q10	445.23	4/1/2010	NE	42.05	NA	NA	NA	403.18		*
3Q10	445.23	7/1/2010	NE	40.64	NA	NA	NA	404.59		*
4Q10	445.23	10/1/2010	NE	38.82	NA	NA	NA	406.41		*
1Q11	445.23	1/13/2011	NE	37.93	NA	NA	NA	407.30		*
2Q11	445.23	4/1/2011	NE	38.42	NA	NA	NA	406.81		*
3Q11	445.23	7/5/2011	NE	36.25	NA	NA	NA	408.98		*
	445.23	9/19/2011	NE	37.21	NA	NA	NA	408.02		*
4Q11	445.23	10/6/2011	NE	37.41	NA	NA	NA	407.82		*
1Q12	445.23	1/3/2012	NE	38.31	NA	NA	NA	406.92		*
2Q12	445.23	4/2/2012	NE	39.85	NA	NA	NA	405.38		*
3Q12	445.23	7/2/2012	NE	40.50	NA	NA	NA	404.73		*
4Q12	445.23	10/1/2012	NE	42.29	NA	NA	NA	402.94		*
P-83B										
1Q10	445.47	1/1/2010	NE	43.88	NA	NA	NA	401.59	375.82 - 373.82 (69.65 - 71.65)	*
2Q10	445.47	4/1/2010	NE	42.31	NA	NA	NA	403.16		*
3Q10	445.47	7/1/2010	NE	40.91	NA	NA	NA	404.56		*
4Q10	445.47	10/1/2010	NE	39.08	NA	NA	NA	406.39		*
1Q11	445.47	1/13/2011	NE	38.20	NA	NA	NA	407.27		*
2Q11	445.47	4/1/2011	NE	38.69	NA	NA	NA	406.78		*
3Q11	445.47	7/5/2011	NE	36.57	NA	NA	NA	408.90		*
	445.47	9/19/2011	NE	37.48	NA	NA	NA	407.99		*
4Q11	445.47	10/6/2011	NE	37.68	NA	NA	NA	407.79		*
1Q12	445.47	1/3/2012	NE	38.58	NA	NA	NA	406.89		*
2Q12	445.47	4/2/2012	NE	40.13	NA	NA	NA	405.34		*
3Q12	445.47	7/2/2012	NE	40.85	NA	NA	NA	404.62		*
4Q12	445.47	10/1/2012	NE	42.57	NA	NA	NA	402.90		*
P-83C										
1Q10	445.64	1/1/2010	NE	44.03	NA	NA	NA	401.61	353.25 - 351.25 (92.39 - 94.39)	*
2Q10	445.64	4/1/2010	NE	42.46	NA	NA	NA	403.18		*
3Q10	445.64	7/1/2010	NE	41.08	NA	NA	NA	404.56		*
4Q10	445.64	10/1/2010	NE	39.24	NA	NA	NA	406.40		*
1Q11	445.64	1/13/2011	NE	38.68	NA	NA	NA	406.96		*
2Q11	445.64	4/1/2011	NE	38.85	NA	NA	NA	406.79		*
3Q11	445.64	7/5/2011	NE	37.02	NA	NA	NA	408.62		*
	445.64	9/19/2011	NE	37.94	NA	NA	NA	407.70		*
4Q11	445.64	10/6/2011	NE	38.15	NA	NA	NA	407.49		*
1Q12	445.64	1/3/2012	NE	39.05	NA	NA	NA	406.59		*
2Q12	445.64	4/2/2012	NE	40.61	NA	NA	NA	405.03		*
3Q12	445.64	7/2/2012	NE	40.96	NA	NA	NA	404.68		*
4Q12	445.64	10/1/2012	NE	43.04	NA	NA	NA	402.60		*
P-83D										
1Q10	445.55	1/1/2010	NE	43.99	NA	NA	NA	401.56	311.84 - 309.84 (133.71 - 135.71)	*
2Q10	445.55	4/1/2010	NE	42.40	NA	NA	NA	403.15		*
3Q10	445.55	7/1/2010	NE	41.00	NA	NA	NA	404.55		*
4Q10	445.55	10/1/2010	NE	39.11	NA	NA	NA	406.44		*
1Q11	445.55	1/13/2011	NE	38.59	NA	NA	NA	406.96		*
2Q11	445.55	4/1/2011	NE	38.31	NA	NA	NA	407.24		*
3Q11	445.55	7/5/2011	NE	36.98	NA	NA	NA	408.57		*
	445.55	9/19/2011	NE	37.87	NA	NA	NA	407.68		*
4Q11	445.55	10/6/2011	NE	38.07	NA	NA	NA	407.48		*
1Q12	445.55	1/3/2012	NE	39.01	NA	NA	NA	406.54		*
2Q12	445.55	4/2/2012	NE	40.53	NA	NA	NA	405.02		*
3Q12	445.55	7/2/2012	NE	40.12	NA	NA	NA	405.43		*
4Q12	445.55	10/1/2012	NE	42.98	NA	NA	NA	402.57		*
P-84A										
1Q10	446.39	1/1/2010	NE	44.20	NA	NA	NA	402.19	392.57 - 377.57 (53.82 - 68.82)	*
2Q10	446.39	4/1/2010	NE	42.91	NA	NA	NA	403.48		*
3Q10	446.39	7/1/2010	NE	41.55	NA	NA	NA	404.84		*
4Q10	446.39	11/11/2010	NE	39.95	NA	NA	NA	406.44		*
1Q11	446.39	1/13/2011	NE	39.55	NA	NA	NA	406.84		*
2Q11	446.39	4/25/2011	NE	40.11	NA	NA	NA	406.28		*
3Q11	446.39	7/5/2011	NE	38.58	NA	NA	NA	407.81		*
4Q11	446.39	10/6/2011	NE	34.36	NA	NA	NA	412.03		*
1Q12	446.39	1/5/2012	NE	39.49	NA	NA	NA	406.90		*
2Q12	446.39	4/3/2012	NE	40.70	NA	NA	NA	405.69		*
3Q12	446.39	7/5/2012	NE	41.40	NA	NA	NA	404.99		*
4Q12	446.39	10/2/2012	NE	43.10	NA	NA	NA	403.29		*
P-84B										
1Q10	446.10	1/1/2010	NE	43.91	NA	NA	NA	402.19	372.60 - 370.60 (73.50 - 75.50)	*
2Q10	446.10	4/1/2010	NE	42.61	NA	NA	NA	403.49		*
3Q10	446.10	7/1/2010	NE	41.28	NA	NA	NA	404.82		*
4Q10	446.10	11/11/2010	NE	39.67	NA	NA	NA	406.43		*
1Q11	446.10	1/13/2011	NE	39.27	NA	NA	NA	406.83		*
2Q11	446.10	4/25/2011	NE	39.85	NA	NA	NA	406.25		*
3Q11	446.10	7/5/2011	NE	38.32	NA	NA	NA	407.78		*
4Q11	446.10	10/6/2011	NE	38.09	NA	NA	NA	408.01		*
1Q12	446.10	1/5/2012	NE	39.23	NA	NA	NA	406.87		*
2Q12	446.10	4/3/2012	NE	40.43	NA	NA	NA	405.67		*
3Q12	446.10	7/5/2012	NE	41.43	NA	NA	NA	404.67		*
4Q12	446.10	10/2/2012	NE	42.84	NA	NA	NA	403.26		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-84C										
1Q10	446.13	1/1/2010	NE	44.39	NA	NA	NA	401.74	352.08 - 350.08 (94.05 - 96.05)	*
2Q10	446.13	4/1/2010	NE	42.65	NA	NA	NA	403.48		*
3Q10	446.13	7/1/2010	NE	41.32	NA	NA	NA	404.81		*
4Q10	446.13	11/11/2010	NE	39.68	NA	NA	NA	406.45		*
1Q11	446.13	1/13/2011	NE	39.29	NA	NA	NA	406.84		*
2Q11	446.13	4/25/2011	NE	39.86	NA	NA	NA	406.27		*
3Q11	446.13	7/5/2011	NE	38.64	NA	NA	NA	407.49		*
4Q11	446.13	10/6/2011	NE	38.41	NA	NA	NA	407.72		*
1Q12	446.13	1/5/2012	NE	39.53	NA	NA	NA	406.60		*
2Q12	446.13	4/3/2012	NE	40.75	NA	NA	NA	405.38		*
3Q12	446.13	7/5/2012	NE	41.45	NA	NA	NA	404.68		*
4Q12	446.13	10/2/2012	NE	43.15	NA	NA	NA	402.98		*
P-84D										
1Q10	446.14	1/1/2010	NE	43.92	NA	NA	NA	402.22	324.99 - 322.99 (121.15 - 123.15)	*
2Q10	446.14	4/1/2010	NE	42.63	NA	NA	NA	403.51		*
3Q10	446.14	7/1/2010	NE	41.34	NA	NA	NA	404.80		*
4Q10	446.14	11/11/2010	NE	39.69	NA	NA	NA	406.45		*
1Q11	446.14	1/13/2011	NE	39.31	NA	NA	NA	406.83		*
2Q11	446.14	4/25/2011	NE	39.87	NA	NA	NA	406.27		*
3Q11	446.14	7/5/2011	NE	38.68	NA	NA	NA	407.46		*
4Q11	446.14	10/6/2011	NE	38.43	NA	NA	NA	407.71		*
1Q12	446.14	1/5/2012	NE	39.55	NA	NA	NA	406.59		*
2Q12	446.14	4/3/2012	NE	40.77	NA	NA	NA	405.37		*
3Q12	446.14	7/5/2012	NE	41.46	NA	NA	NA	404.68		*
4Q12	446.14	10/2/2012	NE	43.18	NA	NA	NA	402.96		*
P-88A										
1Q10	443.12	1/1/2010	NE	34.78	NA	NA	NA	408.34	404.72 - 389.72 (38.40 - 53.40)	*
2Q10	443.12	4/1/2010	NE	33.22	NA	NA	NA	409.90		*
3Q10	443.12	7/1/2010	NE	31.80	NA	NA	NA	411.32		*
4Q10	443.12	10/1/2010	NE	30.65	NA	NA	NA	412.47		*
1Q11	443.12	1/14/2011	NE	31.16	NA	NA	NA	411.96		*
2Q11	443.12	4/1/2011	NE	31.36	NA	NA	NA	411.76		*
3Q11	443.12	7/5/2011	NE	29.78	NA	NA	NA	413.34		*
	443.12	9/19/2011	NE	29.72	NA	NA	NA	413.40		*
4Q11	443.12	10/5/2011	NE	29.92	NA	NA	NA	413.20		*
1Q12	443.12	1/4/2012	NE	31.18	NA	NA	NA	411.94		*
2Q12	443.12	4/3/2012	NE	32.55	NA	NA	NA	410.57		*
3Q12	443.12	7/2/2012	NE	32.97	NA	NA	NA	410.15		*
4Q12	443.12	10/2/2012	NE	34.58	NA	NA	NA	408.54		*
P-88B										
1Q10	443.17	1/1/2010	NE	34.86	NA	NA	NA	408.31	370.62 - 368.62 (72.55 - 74.55)	*
2Q10	443.17	4/1/2010	NE	33.28	NA	NA	NA	409.89		*
3Q10	443.17	7/1/2010	NE	31.86	NA	NA	NA	411.31		*
4Q10	443.17	10/1/2010	NE	30.87	NA	NA	NA	412.30		*
1Q11	443.17	1/14/2011	NE	31.37	NA	NA	NA	411.80		*
2Q11	443.17	4/1/2011	NE	31.42	NA	NA	NA	411.75		*
3Q11	443.17	7/5/2011	NE	29.71	NA	NA	NA	413.46		*
	443.17	9/19/2011	NE	29.64	NA	NA	NA	413.53		*
4Q11	443.17	10/5/2011	NE	29.86	NA	NA	NA	413.31		*
1Q12	443.17	1/4/2012	NE	31.16	NA	NA	NA	412.01		*
2Q12	443.17	4/3/2012	NE	32.50	NA	NA	NA	410.67		*
3Q12	443.17	7/2/2012	NE	33.01	NA	NA	NA	410.16		*
4Q12	443.17	10/2/2012	NE	34.56	NA	NA	NA	408.61		*
P-88C										
1Q10	443.16	1/1/2010	NE	35.11	NA	NA	NA	408.05	350.86 - 348.86 (92.30 - 94.30)	*
2Q10	443.16	4/1/2010	NE	33.25	NA	NA	NA	409.91		*
3Q10	443.16	7/1/2010	NE	31.85	NA	NA	NA	411.31		*
4Q10	443.16	10/1/2010	NE	30.67	NA	NA	NA	412.49		*
1Q11	443.16	1/14/2011	NE	31.17	NA	NA	NA	411.99		*
2Q11	443.16	4/1/2011	NE	31.38	NA	NA	NA	411.78		*
3Q11	443.16	7/5/2011	NE	30.02	NA	NA	NA	413.14		*
	443.16	9/19/2011	NE	29.95	NA	NA	NA	413.21		*
4Q11	443.16	10/5/2011	NE	30.14	NA	NA	NA	413.02		*
1Q12	443.16	1/4/2012	NE	31.44	NA	NA	NA	411.72		*
2Q12	443.16	4/3/2012	NE	32.78	NA	NA	NA	410.38		*
3Q12	443.16	7/2/2012	NE	33.15	NA	NA	NA	410.01		*
4Q12	443.16	10/2/2012	NE	34.83	NA	NA	NA	408.33		*
P-88D										
1Q10	443.23	1/1/2010	NE	35.20	NA	NA	NA	408.03	329.53 - 327.53 (113.70 - 115.70)	*
2Q10	443.23	4/1/2010	NE	33.33	NA	NA	NA	409.90		*
3Q10	443.23	7/1/2010	NE	31.87	NA	NA	NA	411.36		*
4Q10	443.23	10/1/2010	NE	30.73	NA	NA	NA	412.50		*
1Q11	443.23	1/14/2011	NE	31.35	NA	NA	NA	411.88		*
2Q11	443.23	4/1/2011	NE	31.81	NA	NA	NA	411.42		*
3Q11	443.23	7/5/2011	NE	30.08	NA	NA	NA	413.15		*
	443.23	9/19/2011	NE	30.03	NA	NA	NA	413.20		*
4Q11	443.23	10/5/2011	NE	30.25	NA	NA	NA	412.98		*
1Q12	443.23	1/4/2012	NE	31.57	NA	NA	NA	411.66		*
2Q12	443.23	4/3/2012	NE	32.91	NA	NA	NA	410.32		*
3Q12	443.23	7/2/2012	NE	33.41	NA	NA	NA	409.82		*
4Q12	443.23	10/2/2012	NE	34.99	NA	NA	NA	408.24		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-37										
1Q10	447.15	1/1/2010	NE	42.55	NA	NA	NA	404.60	398.30 - 378.30 (48.86 - 68.86)	*
2Q10	447.15	4/1/2010	NE	41.10	NA	NA	NA	406.05		*
3Q10	447.15	7/1/2010	NE	39.78	NA	NA	NA	407.37		*
4Q10	447.15	10/1/2010	NE	38.12	NA	NA	NA	409.03		*
1Q11	447.15	1/13/2011	NE	37.61	NA	NA	NA	409.54		*
2Q11	447.15	4/1/2011	NE	37.63	NA	NA	NA	409.52		*
3Q11	447.15	7/5/2011	NE	35.84	NA	NA	NA	411.31		*
4Q11	447.15	10/6/2011	NE	36.90	NA	NA	NA	410.25		*
1Q12	447.15	1/3/2012	NE	37.95	NA	NA	NA	409.20		*
2Q12	447.15	4/2/2012	NE	39.12	NA	NA	NA	408.03		*
3Q12	447.15	7/2/2012	NE	39.91	NA	NA	NA	407.24		*
4Q12	447.15	10/1/2012	NE	41.44	NA	NA	NA	405.71		*
P-89B										
1Q10	447.35	1/1/2010	NE	42.73	NA	NA	NA	404.62	369.99 - 367.99 (77.36 - 79.36)	*
2Q10	447.35	4/1/2010	NE	41.29	NA	NA	NA	406.06		*
3Q10	447.35	7/1/2010	NE	39.97	NA	NA	NA	407.38		*
4Q10	447.35	10/1/2010	NE	38.29	NA	NA	NA	409.06		*
1Q11	447.35	1/14/2011	NE	37.78	NA	NA	NA	409.57		*
2Q11	447.35	4/1/2011	NE	37.80	NA	NA	NA	409.55		*
3Q11	447.35	7/5/2011	NE	35.99	NA	NA	NA	411.36		*
	447.35	9/19/2011	NE	36.81	NA	NA	NA	410.54		*
4Q11	447.35	10/6/2011	NE	37.05	NA	NA	NA	410.30		*
1Q12	447.35	1/3/2012	NE	38.10	NA	NA	NA	409.25		*
2Q12	447.35	4/2/2012	NE	39.30	NA	NA	NA	408.05		*
3Q12	447.35	7/2/2012	NE	40.09	NA	NA	NA	407.26		*
4Q12	447.35	10/1/2012	NE	41.62	NA	NA	NA	405.73		*
P-89C										
1Q10	447.68	1/1/2010	NE	43.07	NA	NA	NA	404.61	350.05 - 348.05 (97.63 - 99.63)	*
2Q10	447.68	4/1/2010	NE	41.63	NA	NA	NA	406.05		*
3Q10	447.68	7/1/2010	NE	40.32	NA	NA	NA	407.36		*
4Q10	447.68	10/1/2010	NE	38.64	NA	NA	NA	409.04		*
1Q11	447.68	1/14/2011	NE	38.10	NA	NA	NA	409.58		*
2Q11	447.68	4/1/2011	NE	38.14	NA	NA	NA	409.54		*
3Q11	447.68	7/5/2011	NE	36.33	NA	NA	NA	411.35		*
	447.68	9/19/2011	NE	37.13	NA	NA	NA	410.55		*
4Q11	447.68	10/6/2011	NE	37.39	NA	NA	NA	410.29		*
1Q12	447.68	1/3/2012	NE	38.42	NA	NA	NA	409.26		*
2Q12	447.68	4/2/2012	NE	39.63	NA	NA	NA	408.05		*
3Q12	447.68	7/2/2012	NE	40.42	NA	NA	NA	407.26		*
4Q12	447.68	10/1/2012	NE	41.94	NA	NA	NA	405.74		*
P-89D										
1Q10	447.54	1/1/2010	NE	43.11	NA	NA	NA	404.43	307.20 - 305.20 (140.34 - 142.34)	*
2Q10	447.54	4/1/2010	NE	41.66	NA	NA	NA	405.88		*
3Q10	447.54	7/1/2010	NE	40.30	NA	NA	NA	407.24		*
4Q10	447.54	10/1/2010	NE	38.61	NA	NA	NA	408.93		*
1Q11	447.54	1/14/2011	NE	38.11	NA	NA	NA	409.43		*
2Q11	447.54	4/1/2011	NE	38.12	NA	NA	NA	409.42		*
3Q11	447.54	7/5/2011	NE	36.23	NA	NA	NA	411.31		*
	447.54	9/19/2011	NE	37.04	NA	NA	NA	410.50		*
4Q11	447.54	10/6/2011	NE	37.35	NA	NA	NA	410.19		*
1Q12	447.54	1/3/2012	NE	38.47	NA	NA	NA	409.07		*
2Q12	447.54	4/2/2012	NE	39.56	NA	NA	NA	407.98		*
3Q12	447.54	7/2/2012	NE	40.36	NA	NA	NA	407.18		*
4Q12	447.54	10/1/2012	NE	41.94	NA	NA	NA	405.60		*
P-91A										
1Q10	447.19	1/1/2010	47.91	48.42	398.77	399.28	0.51	399.18	395.68 - 380.68 (51.52 - 66.52)	*Product confirmed on interface probe.
2Q10	447.19	4/1/2010	46.08	46.58	400.61	401.11	0.50	401.01		*Product confirmed on interface probe.
3Q10	447.19	7/1/2010	44.85	45.36	401.83	402.34	0.51	402.24		*Product confirmed on interface probe.
4Q10	447.19	10/1/2010	42.70	43.19	404.00	404.49	0.49	404.39		*Product confirmed on interface probe.
1Q11	447.19	1/14/2011	41.19	41.64	405.55	406.00	0.45	405.91		*
2Q11	447.19	4/1/2011	NE	43.10	NA	NA	NA	404.09		*
3Q11	447.19	7/5/2011	NE	40.42	NA	NA	NA	406.77		*
	447.19	9/19/2011	NE	41.69	NA	NA	NA	405.50		*
4Q11	447.19	10/6/2011	NE	41.63	NA	NA	NA	405.56		*
1Q12	447.19	1/3/2012	NE	42.91	NA	NA	NA	404.28		*
2Q12	447.19	4/3/2012	NE	44.31	NA	NA	NA	402.88		*
3Q12	447.19	7/2/2012	NE	45.76	NA	NA	NA	401.43		*
4Q12	447.19	10/1/2012	NE	46.72	NA	NA	NA	400.47		*
P-91B										
1Q10	447.26	1/1/2010	NE	48.19	NA	NA	NA	399.07	372.57 - 370.57 (74.69 - 76.69)	*
2Q10	447.26	4/1/2010	NE	46.21	NA	NA	NA	401.05		*
3Q10	447.26	7/1/2010	NE	45.08	NA	NA	NA	402.18		*
4Q10	447.26	10/1/2010	NE	42.87	NA	NA	NA	404.39		*
1Q11	447.26	1/14/2011	NE	41.41	NA	NA	NA	405.85		*
2Q11	447.26	4/1/2011	NE	43.28	NA	NA	NA	403.98		*
3Q11	447.26	7/5/2011	NE	40.62	NA	NA	NA	406.64		*
	447.26	9/19/2011	NE	41.78	NA	NA	NA	405.48		*
4Q11	447.26	10/6/2011	NE	41.53	NA	NA	NA	405.73		*
1Q12	447.26	1/3/2012	NE	43.00	NA	NA	NA	404.26		*
2Q12	447.26	4/3/2012	NE	44.11	NA	NA	NA	403.15		*
3Q12	447.26	7/2/2012	NE	45.74	NA	NA	NA	401.52		*
4Q12	447.26	10/1/2012	NE	46.79	NA	NA	NA	400.47		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-91C										
1Q10	447.02	1/1/2010	NE	48.91	NA	NA	NA	398.11	352.29 - 350.29 (94.73 - 96.73)	*
2Q10	447.02	4/1/2010	NE	46.08	NA	NA	NA	400.94		*
3Q10	447.02	7/1/2010	NE	44.83	NA	NA	NA	402.19		*
4Q10	447.02	10/1/2010	NE	42.57	NA	NA	NA	404.45		*
1Q11	447.02	1/14/2011	NE	41.18	NA	NA	NA	405.84		*
2Q11	447.02	4/1/2011	NE	43.00	NA	NA	NA	404.02		*
3Q11	447.02	7/5/2011	NE	40.35	NA	NA	NA	406.67		*
	447.02	9/19/2011	NE	41.51	NA	NA	NA	405.51		*
4Q11	447.02	10/6/2011	NE	41.47	NA	NA	NA	405.55		*
1Q12	447.02	1/3/2012	NE	42.74	NA	NA	NA	404.28		*
2Q12	447.02	4/3/2012	NE	44.11	NA	NA	NA	402.91		*
3Q12	447.02	7/2/2012	NE	45.53	NA	NA	NA	401.49		*
4Q12	447.02	10/1/2012	NE	46.54	NA	NA	NA	400.48		*
P-91D										
1Q10	447.02	1/1/2010	NE	47.87	NA	NA	NA	399.15	278.70 - 276.70 (168.32 - 170.32)	*
2Q10	447.02	4/1/2010	NE	46.03	NA	NA	NA	400.99		*
3Q10	447.02	7/1/2010	NE	44.77	NA	NA	NA	402.25		*
4Q10	447.02	10/1/2010	NE	42.52	NA	NA	NA	404.50		*
1Q11	447.02	1/14/2011	NE	41.14	NA	NA	NA	405.88		*
2Q11	447.02	4/1/2011	NE	42.97	NA	NA	NA	404.05		*
3Q11	447.02	7/5/2011	NE	40.27	NA	NA	NA	406.75		*
	447.02	9/19/2011	NE	41.49	NA	NA	NA	405.53		*
4Q11	447.02	10/6/2011	NE	41.44	NA	NA	NA	405.58		*
1Q12	447.02	1/3/2012	NE	42.73	NA	NA	NA	404.29		*
2Q12	447.02	4/3/2012	NE	44.35	NA	NA	NA	402.67		*
3Q12	447.02	7/2/2012	NE	45.55	NA	NA	NA	401.47		*
4Q12	447.02	10/1/2012	NE	46.53	NA	NA	NA	400.49		*
P-92A										
1Q10	446.12	1/1/2010	45.05	45.25	400.87	401.07	0.20	401.03	398.55 - 383.55 (47.57 - 62.57)	*Product confirmed on interface probe.
2Q10	446.12	4/1/2010	43.43	43.63	402.49	402.69	0.20	402.65		*Product confirmed on interface probe.
3Q10	446.12	7/1/2010	42.43	42.63	403.49	403.69	0.20	403.65		*Product confirmed on interface probe.
4Q10	446.12	10/1/2010	40.50	40.70	405.42	405.62	0.20	405.58		*Product confirmed on interface probe.
1Q11	446.12	1/14/2011	39.43	39.57	406.55	406.69	0.14	406.66		*
2Q11	446.12	4/1/2011	NE	41.02	NA	NA	NA	405.10		*
3Q11	446.12	7/5/2011	38.55	38.59	407.53	407.57	0.04	407.56		*
	446.12	9/19/2011	39.62	39.67	406.45	406.50	0.05	406.49		*
4Q11	446.12	10/6/2011	39.70	39.76	406.36	406.42	0.06	406.41		*
1Q12	446.12	1/4/2012	41.05	41.07	405.05	405.07	0.02	405.07		*
2Q12	446.12	4/3/2012	NE	42.77	NA	NA	NA	403.35		*
3Q12	446.12	7/3/2012	44.06	44.08	402.04	402.06	0.02	402.06		*
4Q12	446.12	10/1/2012	NE	45.04	NA	NA	NA	401.08		*
P-92B										
1Q10	446.07	1/1/2010	NE	45.04	NA	NA	NA	401.03	372.42 - 370.42 (73.65 - 75.65)	*
2Q10	446.07	4/1/2010	NE	43.44	NA	NA	NA	402.63		*
3Q10	446.07	7/1/2010	NE	42.43	NA	NA	NA	403.64		*
4Q10	446.07	10/1/2010	NE	40.51	NA	NA	NA	405.56		*
1Q11	446.07	1/14/2011	NE	39.41	NA	NA	NA	406.66		*
2Q11	446.07	4/1/2011	NE	40.92	NA	NA	NA	405.15		*
3Q11	446.07	7/5/2011	NE	38.51	NA	NA	NA	407.56		*
	446.07	9/19/2011	NE	39.61	NA	NA	NA	406.46		*
4Q11	446.07	10/6/2011	NE	39.68	NA	NA	NA	406.39		*
1Q12	446.07	1/4/2012	NE	41.02	NA	NA	NA	405.05		*
2Q12	446.07	4/3/2012	NE	42.74	NA	NA	NA	403.33		*
3Q12	446.07	7/3/2012	NE	44.02	NA	NA	NA	402.05		*
4Q12	446.07	10/1/2012	NE	44.97	NA	NA	NA	401.10		*
P-92C										
1Q10	445.98	1/1/2010	NE	44.89	NA	NA	NA	401.09	352.54 - 350.54 (93.44 - 95.44)	*
2Q10	445.98	4/1/2010	NE	43.17	NA	NA	NA	402.81		*
3Q10	445.98	7/1/2010	NE	42.30	NA	NA	NA	403.68		*
4Q10	445.98	10/1/2010	NE	40.38	NA	NA	NA	405.60		*
1Q11	445.98	1/14/2011	NE	39.32	NA	NA	NA	406.66		*
2Q11	445.98	4/1/2011	NE	40.77	NA	NA	NA	405.21		*
3Q11	445.98	7/5/2011	NE	38.33	NA	NA	NA	407.65		*
	445.98	9/19/2011	NE	39.50	NA	NA	NA	406.48		*
4Q11	445.98	10/6/2011	NE	39.63	NA	NA	NA	406.35		*
1Q12	445.98	1/4/2012	NE	39.95	NA	NA	NA	406.03		*
2Q12	445.98	4/3/2012	NE	42.61	NA	NA	NA	403.37		*
3Q12	445.98	7/3/2012	NE	44.07	NA	NA	NA	401.91		*
4Q12	445.98	10/1/2012	NE	45.04	NA	NA	NA	400.94		*
P-92D										
1Q10	445.90	1/1/2010	NE	44.92	NA	NA	NA	400.98	304.90 - 302.90 (141.00 - 143.00)	*
2Q10	445.90	4/1/2010	NE	43.24	NA	NA	NA	402.66		*
3Q10	445.90	7/1/2010	NE	42.31	NA	NA	NA	403.59		*
4Q10	445.90	10/1/2010	NE	40.37	NA	NA	NA	405.53		*
1Q11	445.90	1/14/2011	NE	39.24	NA	NA	NA	406.66		*
2Q11	445.90	4/1/2011	NE	40.73	NA	NA	NA	405.17		*
3Q11	445.90	7/5/2011	NE	38.33	NA	NA	NA	407.57		*
	445.90	9/19/2011	NE	39.46	NA	NA	NA	406.44		*
4Q11	445.90	10/6/2011	NE	39.57	NA	NA	NA	406.33		*
1Q12	445.90	1/4/2012	NE	39.89	NA	NA	NA	406.01		*
2Q12	445.90	4/3/2012	NE	42.67	NA	NA	NA	403.23		*
3Q12	445.90	7/3/2012	NE	43.96	NA	NA	NA	401.94		*
4Q12	445.90	10/1/2012	NE	44.82	NA	NA	NA	401.08		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-93A										
1Q10	446.58	1/1/2010	NE	43.92	NA	NA	NA	402.66	398.41 - 383.41 (48.17 - 63.17)	*
2Q10	446.58	4/1/2010	NE	42.67	NA	NA	NA	403.91		*
3Q10	446.58	7/1/2010	NE	41.47	NA	NA	NA	405.11		*
4Q10	446.58	11/11/2010	NE	40.75	NA	NA	NA	405.83		*
1Q11	446.58	1/14/2011	NE	40.97	NA	NA	NA	405.61		*
2Q11	446.58	4/25/2011	NE	41.80	NA	NA	NA	404.78		*
3Q11	446.58	7/5/2011	NE	39.40	NA	NA	NA	407.18		*
	446.58	9/19/2011	NE	38.86	NA	NA	NA	407.72		*
4Q11	446.58	10/6/2011	NE	39.16	NA	NA	NA	407.42		*
1Q12	446.58	1/4/2012	NE	41.32	NA	NA	NA	405.26		*
2Q12	446.58	4/3/2012	NE	42.72	NA	NA	NA	403.86		*
3Q12	446.58	7/5/2012	NE	42.95	NA	NA	NA	403.63		*
4Q12	446.58	10/2/2012	NE	44.72	NA	NA	NA	401.86		*
P-93B										
1Q10	446.46	1/1/2010	NE	44.34	NA	NA	NA	402.12	371.86 - 369.86 (74.60 - 76.60)	*
2Q10	446.46	4/1/2010	NE	42.56	NA	NA	NA	403.90		*
3Q10	446.46	7/1/2010	NE	41.38	NA	NA	NA	405.08		*
4Q10	446.46	11/11/2010	NE	40.73	NA	NA	NA	405.73		*
1Q11	446.46	1/14/2011	NE	41.03	NA	NA	NA	405.43		*
2Q11	446.46	4/25/2011	NE	41.69	NA	NA	NA	404.77		*
3Q11	446.46	7/5/2011	NE	39.44	NA	NA	NA	407.02		*
	446.46	9/19/2011	NE	38.91	NA	NA	NA	407.55		*
4Q11	446.46	10/6/2011	NE	39.19	NA	NA	NA	407.27		*
1Q12	446.46	1/4/2012	NE	41.38	NA	NA	NA	405.08		*
2Q12	446.46	4/3/2012	NE	42.80	NA	NA	NA	403.66		*
3Q12	446.46	7/5/2012	NE	42.86	NA	NA	NA	403.60		*
4Q12	446.46	10/2/2012	NE	44.80	NA	NA	NA	401.66		*
P-93C										
1Q10	446.51	1/1/2010	NE	43.86	NA	NA	NA	402.65	352.26 - 350.26 (94.26 - 96.26)	*
2Q10	446.51	4/1/2010	NE	42.59	NA	NA	NA	403.92		*
3Q10	446.51	7/1/2010	NE	41.42	NA	NA	NA	405.09		*
4Q10	446.51	11/11/2010	NE	40.69	NA	NA	NA	405.82		*
1Q11	446.51	1/14/2011	NE	40.91	NA	NA	NA	405.60		*
2Q11	446.51	4/25/2011	NE	41.70	NA	NA	NA	404.81		*
3Q11	446.51	7/5/2011	NE	39.32	NA	NA	NA	407.19		*
	446.51	9/19/2011	NE	38.79	NA	NA	NA	407.72		*
4Q11	446.51	10/6/2011	NE	39.15	NA	NA	NA	407.36		*
1Q12	446.51	1/4/2012	NE	41.27	NA	NA	NA	405.24		*
2Q12	446.51	4/3/2012	NE	42.62	NA	NA	NA	403.89		*
3Q12	446.51	7/5/2012	NE	42.98	NA	NA	NA	403.53		*
4Q12	446.51	10/2/2012	NE	44.68	NA	NA	NA	401.83		*
P-93D										
1Q10	446.89	1/1/2010	NE	43.76	NA	NA	NA	403.13	321.14 - 319.14 (125.75 - 127.75)	*
2Q10	446.89	4/1/2010	NE	42.51	NA	NA	NA	404.38		*
3Q10	446.89	7/1/2010	NE	41.32	NA	NA	NA	405.57		*
4Q10	446.36	11/11/2010	NE	40.59	NA	NA	NA	405.77		*
1Q11	446.36	1/14/2011	NE	40.81	NA	NA	NA	405.55		*
2Q11	446.89	4/25/2011	NE	41.84	NA	NA	NA	405.05		*
3Q11	446.89	7/5/2011	NE	39.46	NA	NA	NA	407.43		*
	446.89	9/19/2011	NE	38.94	NA	NA	NA	407.95		*
4Q11	446.89	10/6/2011	NE	39.22	NA	NA	NA	407.67		*
1Q12	446.89	1/4/2012	NE	41.41	NA	NA	NA	405.48		*
2Q12	446.89	4/3/2012	NE	42.81	NA	NA	NA	404.08		*
3Q12	446.89	7/5/2012	NE	43.02	NA	NA	NA	403.87		*
4Q12	446.89	10/2/2012	NE	44.43	NA	NA	NA	402.46		*
P-94										
1Q10	444.65	1/1/2010	NE	38.86	NA	NA	NA	405.79	398.80 - 383.80 (45.85 - 60.85)	*
2Q10	444.65	4/1/2010	NE	37.55	NA	NA	NA	407.10		*
3Q10	444.65	7/1/2010	NE	36.11	NA	NA	NA	408.54		*
4Q10	444.65	10/1/2010	NE	35.13	NA	NA	NA	409.52		*
1Q11	444.65	1/13/2011	NE	34.66	NA	NA	NA	409.99		*
2Q11	444.65	4/1/2011	NE	34.27	NA	NA	NA	410.38		*
3Q11	444.65	7/5/2011	NE	32.14	NA	NA	NA	412.51		*
	444.65	9/19/2011	NE	33.17	NA	NA	NA	411.48		*
4Q11	444.65	10/6/2011	NE	33.53	NA	NA	NA	411.12		*
1Q12	444.65	1/3/2012	NE	34.75	NA	NA	NA	409.90		*
2Q12	444.65	4/2/2012	NE	35.68	NA	NA	NA	408.97		*
3Q12	444.65	7/2/2012	NE	36.20	NA	NA	NA	408.45		*
4Q12	444.65	10/1/2012	NE	38.02	NA	NA	NA	406.63		*
P-95										
1Q10	443.44	1/1/2010	NE	33.06	NA	NA	NA	410.38	406.92 - 391.92 (36.52 - 51.52)	*
2Q10	443.44	4/1/2010	NE	31.77	NA	NA	NA	411.67		*
3Q10	443.44	7/1/2010	NE	30.42	NA	NA	NA	413.02		*
4Q10	443.44	10/1/2010	NE	29.31	NA	NA	NA	414.13		*
1Q11	443.44	1/13/2011	NE	29.68	NA	NA	NA	413.76		*
2Q11	443.44	4/1/2011	NE	29.75	NA	NA	NA	413.69		*
3Q11	443.44	7/5/2011	NE	28.12	NA	NA	NA	415.32		*
4Q11	443.44	10/5/2011	NE	28.24	NA	NA	NA	415.20		*
1Q12	443.44	1/5/2012	NE	29.50	NA	NA	NA	413.94		*
2Q12	443.44	4/3/2012	NE	30.58	NA	NA	NA	412.86		*
3Q12	443.44	7/3/2012	NE	31.04	NA	NA	NA	412.40		*
4Q12	443.44	10/2/2012	NE	32.52	NA	NA	NA	410.92		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-102										
1Q10	444.91	1/1/2010	NE	36.48	NA	NA	NA	408.43	402.16 - 382.16 (42.75 - 62.75)	*
2Q10	444.91	4/1/2010	NE	35.31	NA	NA	NA	409.60		*
3Q10	444.91	7/1/2010	NE	33.97	NA	NA	NA	410.94		*
4Q10	444.91	10/1/2010	NE	33.62	NA	NA	NA	411.29		*
1Q11	444.91	1/3/2011	NE	32.61	NA	NA	NA	412.30		*
2Q11	444.91	4/1/2011	NE	32.41	NA	NA	NA	412.50		*
3Q11	444.91	7/5/2011	NE	30.91	NA	NA	NA	414.00		*
	444.91	9/19/2011	NE	31.18	NA	NA	NA	413.73		*
4Q11	444.91	10/6/2011	NE	31.47	NA	NA	NA	413.44		*
1Q12	444.91	1/4/2012	NE	32.45	NA	NA	NA	412.46		*
2Q12	444.91	4/3/2012	NE	33.41	NA	NA	NA	411.50		*
3Q12	444.91	7/2/2012	NE	34.10	NA	NA	NA	410.81		*
4Q12	444.91	10/2/2012	NE	35.69	NA	NA	NA	409.22		*
P-114										
1Q10	432.41	1/1/2010	NE	28.40	NA	NA	NA	404.01	399.73 - 379.73 (32.67 - 52.67)	*
2Q10	432.41	4/1/2010	NE	27.05	NA	NA	NA	405.36		*
3Q10	432.41	7/1/2010	NE	25.00	NA	NA	NA	407.41		*
4Q10	432.41	11/12/2010	NE	24.66	NA	NA	NA	407.75		*
1Q11	432.41	1/13/2011	NE	26.84	NA	NA	NA	405.57		*
2Q11	432.41	4/25/2011	NE	26.61	NA	NA	NA	405.80		*
3Q11	432.41	7/5/2011	NE	23.48	NA	NA	NA	408.93		*
	432.41	9/19/2011	NE	24.20	NA	NA	NA	408.21		*
4Q11	432.41	10/5/2011	NE	24.59	NA	NA	NA	407.82		*
1Q12	432.41	1/3/2012	NE	26.88	NA	NA	NA	405.53		*
2Q12	432.41	4/2/2012	NE	28.33	NA	NA	NA	404.08		*
3Q12	432.41	7/3/2012	NE	28.39	NA	NA	NA	404.02		*
4Q12	432.41	10/2/2012	NE	30.51	NA	NA	NA	401.90		*
P-115										
1Q10	433.31	1/1/2010	NE	29.31	NA	NA	NA	404.00	401.01 - 381.01 (32.30 - 52.30)	*
2Q10	433.31	4/1/2010	NE	27.77	NA	NA	NA	405.54		*
3Q10	433.31	7/1/2010	NE	25.59	NA	NA	NA	407.72		*
4Q10	433.31	11/11/2010	NE	25.41	NA	NA	NA	407.90		*
1Q11	433.31	1/13/2011	NE	27.88	NA	NA	NA	405.43		*
2Q11	433.31	4/25/2011	NE	27.38	NA	NA	NA	405.93		*
3Q11	433.31	7/5/2011	NM	NM	NA	NA	NA	NA		Not Accessible
	433.31	9/19/2011	NE	25.10	NA	NA	NA	408.21		*
4Q11	433.31	10/6/2011	NE	25.67	NA	NA	NA	407.64		*
1Q12	433.31	1/3/2012	NE	27.86	NA	NA	NA	405.45		*
2Q12	433.31	4/2/2012	NE	29.30	NA	NA	NA	404.01		*
3Q12	433.31	7/3/2012	NE	29.35	NA	NA	NA	403.96		*
4Q12	433.31	10/2/2012	NE	31.51	NA	NA	NA	401.80		*
P-116										
1Q10	436.45	1/1/2010	NE	32.68	NA	NA	NA	403.77	399.01 - 379.01 (37.44 - 57.44)	*
2Q10	436.45	4/1/2010	NE	31.05	NA	NA	NA	405.40		*
3Q10	436.45	7/1/2010	NE	28.82	NA	NA	NA	407.63		*
4Q10	436.45	11/11/2010	NE	28.76	NA	NA	NA	407.69		*
1Q11	436.45	1/13/2011	NE	31.35	NA	NA	NA	405.10		*
2Q11	436.45	4/25/2011	NE	30.76	NA	NA	NA	405.69		*
3Q11	436.45	7/5/2011	NE	27.41	NA	NA	NA	409.04		*
	436.45	9/19/2011	NE	28.52	NA	NA	NA	407.93		*
4Q11	436.45	10/5/2011	NE	28.96	NA	NA	NA	407.49		*
1Q12	436.45	1/3/2012	NE	31.35	NA	NA	NA	405.10		*
2Q12	436.45	4/2/2012	NE	32.72	NA	NA	NA	403.73		*
3Q12	436.45	7/3/2012	NE	32.80	NA	NA	NA	403.65		*
4Q12	436.45	10/2/2012	NE	34.97	NA	NA	NA	401.48		*
P-117										
1Q10	432.67	1/1/2010	NE	28.87	NA	NA	NA	403.80	399.74 - 379.74 (32.93 - 52.93)	*
2Q10	432.67	4/1/2010	NE	27.19	NA	NA	NA	405.48		*
3Q10	432.67	7/1/2010	NE	24.91	NA	NA	NA	407.76		*
4Q10	432.67	11/11/2010	NE	24.11	NA	NA	NA	408.56		*
1Q11	432.67	1/13/2011	NE	27.62	NA	NA	NA	405.05		*
2Q11	432.67	4/25/2011	NE	26.96	NA	NA	NA	405.71		*
3Q11	432.67	7/5/2011	NE	23.54	NA	NA	NA	409.13		*
	432.67	9/19/2011	NE	24.71	NA	NA	NA	407.96		*
4Q11	432.67	10/5/2011	NE	25.16	NA	NA	NA	407.51		*
1Q12	432.67	1/3/2012	NE	27.56	NA	NA	NA	405.11		*
2Q12	432.67	4/2/2012	NE	29.00	NA	NA	NA	403.67		*
3Q12	432.67	7/3/2012	NE	29.00	NA	NA	NA	403.67		*
4Q12	432.67	10/2/2012	NE	31.19	NA	NA	NA	401.48		*
P-118										
1Q10	431.32	1/1/2010	NE	27.78	NA	NA	NA	403.54	400.20 - 384.27 (31.12 - 47.05)	*
2Q10	431.32	4/1/2010	NE	25.81	NA	NA	NA	405.51		*
3Q10	431.32	7/1/2010	NE	23.27	NA	NA	NA	408.05		*
4Q10	431.32	10/1/2010	NE	23.80	NA	NA	NA	407.52		*
1Q11	431.32	1/13/2011	NE	26.95	NA	NA	NA	404.37		*
2Q11	431.32	4/1/2011	NE	25.75	NA	NA	NA	405.57		*
3Q11	431.32	7/5/2011	NE	22.11	NA	NA	NA	409.21		*
	431.32	9/19/2011	NE	23.78	NA	NA	NA	407.54		*
4Q11	431.32	10/5/2011	NE	34.28	NA	NA	NA	397.04		
1Q12	431.32	1/3/2012	NE	26.78	NA	NA	NA	404.54		*
2Q12	431.32	4/2/2012	NE	28.13	NA	NA	NA	403.19		*
3Q12	431.32	7/3/2012	NE	28.12	NA	NA	NA	403.20		*
4Q12	431.32	10/2/2012	NE	30.40	NA	NA	NA	400.92		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
P-119										
1Q10	431.92	1/1/2010	NE	27.74	NA	NA	NA	404.18	401.25 - 385.32 (30.67 - 46.60)	*
2Q10	431.92	4/1/2010	NE	26.49	NA	NA	NA	405.43		*
3Q10	431.92	7/1/2010	NE	24.71	NA	NA	NA	407.21		*
4Q10	431.92	11/11/2010	NE	24.93	NA	NA	NA	406.99		*
1Q11	431.92	1/13/2011	NE	25.64	NA	NA	NA	406.28		*
2Q11	431.92	4/25/2011	NE	25.77	NA	NA	NA	406.15		*
3Q11	431.92	7/5/2011	NE	23.06	NA	NA	NA	408.86		*
	431.92	9/19/2011	NE	23.40	NA	NA	NA	408.52		*
4Q11	431.92	10/5/2011	NE	23.70	NA	NA	NA	408.22		*
1Q12	431.92	1/3/2012	NE	29.80	NA	NA	NA	402.12		*
2Q12	431.92	4/2/2012	NE	27.21	NA	NA	NA	404.71		*
3Q12	431.92	7/3/2012	NE	27.40	NA	NA	NA	404.52		*
4Q12	431.92	10/2/2012	NE	29.45	NA	NA	NA	402.47		*
P-120										
1Q10	432.78	1/1/2010	NE	27.86	NA	NA	NA	404.92	401.4 - 385.47 (31.38 - 47.31)	*
2Q10	432.78	4/1/2010	NE	26.60	NA	NA	NA	406.18		*
3Q10	432.78	7/1/2010	NE	24.53	NA	NA	NA	408.25		*
4Q10	432.78	10/1/2010	NE	24.13	NA	NA	NA	408.65		*
1Q11	432.78	1/13/2011	NE	26.14	NA	NA	NA	406.64		*
2Q11	432.78	4/1/2011	NE	25.82	NA	NA	NA	406.96		*
3Q11	432.78	7/5/2011	NE	22.85	NA	NA	NA	409.93		*
	432.78	9/19/2011	NE	23.82	NA	NA	NA	408.96		*
4Q11	432.78	10/5/2011	NE	24.15	NA	NA	NA	408.63		*
1Q12	432.78	1/3/2012	NE	26.22	NA	NA	NA	406.56		*
2Q12	432.78	4/4/2012	NE	27.58	NA	NA	NA	405.20		*
3Q12	432.78	7/3/2012	NE	27.84	NA	NA	NA	404.94		*
4Q12	432.78	10/2/2012	NE	29.90	NA	NA	NA	402.88		*
P-129										
1Q10	432.46	1/1/2010	NE	29.33	NA	NA	NA	403.13	400.49 - 384.56 (31.97 - 47.90)	*
2Q10	432.46	4/1/2010	NE	27.11	NA	NA	NA	405.35		*
3Q10	432.46	7/1/2010	NE	23.82	NA	NA	NA	408.64		*
4Q10	432.46	10/1/2010	NE	25.46	NA	NA	NA	407.00		*
1Q11	432.46	1/1/2011	NE	29.82	NA	NA	NA	402.64		*
2Q11	432.46	4/1/2011	NE	26.85	NA	NA	NA	405.61		*
3Q11	432.46	7/5/2011	NE	22.74	NA	NA	NA	409.72		*
4Q11	432.46	10/5/2011	NE	26.57	NA	NA	NA	405.89		*
1Q12	432.46	1/5/2012	NE	29.31	NA	NA	NA	403.15		*
2Q12	432.46	4/2/2012	NE	30.31	NA	NA	NA	402.15		*
3Q12	432.46	7/3/2012	NE	30.33	NA	NA	NA	402.13		*
4Q12	432.46	10/2/2012	NE	32.84	NA	NA	NA	399.62		
GP-9-PZ										
4Q10	442.41	11/11/2010	NE	37.38	NA	NA	NA	405.03	404.81 - 394.81 (37.60 - 47.60)	*
1Q11	442.41	1/14/2011	NE	37.53	NA	NA	NA	404.88		*
2Q11	442.41	4/25/2011	NE	38.85	NA	NA	NA	403.56		
3Q11	442.41	7/5/2011	NM	NM	NA	NA	NA	NA		
	442.41	9/19/2011	NE	35.44	NA	NA	NA	406.97		*
4Q11	442.41	10/6/2011	NE	36.65	NA	NA	NA	405.76		*
1Q12	442.41	1/4/2012	NE	38.13	NA	NA	NA	404.28		
2Q12	442.41	4/3/2012	NE	39.51	NA	NA	NA	402.90		
3Q12	442.41	7/5/2012	NE	39.62	NA	NA	NA	402.79		
4Q12	442.41	10/2/2012	NE	41.32	NA	NA	NA	401.09		
ROST-3-PZ										
4Q10	442.29	11/12/2010	NE	36.60	NA	NA	NA	405.69	402.29 - 392.29	*
1Q11	442.29	1/13/2011	NE	37.29	NA	NA	NA	405.00		*
2Q11	442.29	4/25/2011	NE	38.21	NA	NA	NA	404.08		*
3Q11	442.29	7/5/2011	NE	35.83	NA	NA	NA	406.46		*
	442.29	9/19/2011	NE	34.89	NA	NA	NA	407.40		*
4Q11	442.29	10/5/2011	NE	35.18	NA	NA	NA	407.11		*
1Q12	442.29	1/3/2012	NE	37.33	NA	NA	NA	404.96		*
2Q12	442.29	4/2/2012	NE	38.57	NA	NA	NA	403.72		*
3Q12	442.29	7/2/2012	NE	38.84	NA	NA	NA	403.45		*
4Q12	442.29	10/1/2012	NE	40.55	NA	NA	NA	401.74		
ROST-4-PZ										
4Q10	442.27	11/12/2010	NE	36.48	NA	NA	NA	405.79	Unknown	3/4" Piezometer
1Q11	442.27	1/13/2011	NE	36.97	NA	NA	NA	405.30		3/4" Piezometer
2Q11	442.13	4/25/2011	NE	37.69	NA	NA	NA	404.44	407.20 - 397.20 (34.93 - 44.93)	2" Well Installed
3Q11	442.13	7/5/2011	NE	35.85	NA	NA	NA	406.28		
4Q11	442.13	10/5/2011	NE	35.64	NA	NA	NA	406.49		
1Q12	442.13	1/3/2012	NE	36.62	NA	NA	NA	405.51		
2Q12	442.13	4/2/2012	37.81	37.84	404.29	404.32	0.03	404.31		
3Q12	442.13	7/2/2012	NE	38.24	NA	NA	NA	403.89		
4Q12	442.13	10/1/2012	NE	39.52	NA	NA	NA	402.61		
ROST-4-PZ(A)										
2Q11	442.11	4/25/2011	NE	37.18	NA	NA	NA	404.93	407.34 - 397.34 (34.77 - 44.77)	
3Q11	442.11	7/5/2011	NE	35.21	NA	NA	NA	406.90		
4Q11	442.11	10/5/2011	NE	34.03	NA	NA	NA	408.08		
1Q12	442.11	1/3/2012	NE	35.92	NA	NA	NA	406.19		
2Q12	442.11	4/2/2012	NE	37.17	NA	NA	NA	404.94		
3Q12	442.11	7/2/2012	NE	38.64	NA	NA	NA	403.47		
4Q12	442.11	10/1/2012	NE	38.95	NA	NA	NA	403.16		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
ROST-4-PZ(B)										
2Q11	442.38	4/25/2011	NE	37.80	NA	NA	NA	404.58	407.33 - 397.33 (35.05 - 45.05)	
3Q11	442.38	7/5/2011	NE	35.93	NA	NA	NA	406.45		
4Q11	442.38	10/5/2011	NE	34.70	NA	NA	NA	407.68		
1Q12	442.38	1/3/2012	NE	36.65	NA	NA	NA	405.73		
2Q12	442.38	4/2/2012	NE	37.87	NA	NA	NA	404.51		
3Q12	442.38	7/2/2012	NE	38.28	NA	NA	NA	404.10		
4Q12	442.38	10/1/2012	NE	39.62	NA	NA	NA	402.76		
ROST-4-PZ(C)										
2Q11	442.66	4/25/2011	NE	38.52	NA	NA	NA	404.14	407.71 - 397.71 (34.95 - 44.95)	
3Q11	442.66	7/5/2011	NE	36.62	NA	NA	NA	406.04		
4Q11	442.66	10/5/2011	NE	35.41	NA	NA	NA	407.25		
1Q12	442.66	1/3/2012	NE	37.40	NA	NA	NA	405.26		
2Q12	442.66	4/2/2012	NE	38.62	NA	NA	NA	404.04		
3Q12	442.66	7/2/2012	NE	39.09	NA	NA	NA	403.57		
4Q12	442.66	10/1/2012	NE	40.43	NA	NA	NA	402.23		
ROST-4-PZ(D)										
2Q11	442.98	4/25/2011	NE	38.41	NA	NA	NA	404.57	408.01 - 398.01 (34.97 - 44.97)	
3Q11	442.98	7/5/2011	NE	36.58	NA	NA	NA	406.40		
4Q11	442.98	10/5/2011	NE	35.37	NA	NA	NA	407.61		
1Q12	442.98	1/3/2012	37.23	37.68	405.30	405.75	0.45	405.66		
2Q12	442.98	4/2/2012	38.57	38.59	404.39	404.41	0.02	404.41		
3Q12	442.98	7/2/2012	NE	39.99	NA	NA	NA	402.99		Sheen
4Q12	442.98	10/1/2012	NE	NE	NA	NA	NA	NA		Well Dry; Integrity Suspect
ROST-4-PZ(E)										
2Q11	441.96	4/25/2011	NE	37.63	NA	NA	NA	404.33	407.21 - 397.21 (34.75 - 44.75)	
3Q11	441.96	7/5/2011	NE	35.81	NA	NA	NA	406.15		
4Q11	441.96	10/5/2011	NE	34.61	NA	NA	NA	407.35		
1Q12	441.96	1/3/2012	36.48	36.92	405.04	405.48	0.44	405.39		
2Q12	441.96	4/2/2012	37.72	38.11	403.85	404.24	0.39	404.16		
3Q12	441.96	7/2/2012	38.13	38.19	403.77	403.83	0.06	403.82		
4Q12	441.96	10/1/2012	39.28	39.31	402.65	402.68	0.03	402.67		
ROST-4-PZ(F)										
2Q11	442.12	4/25/2011	NE	37.87	NA	NA	NA	404.25	407.59 - 397.59 (34.53 - 44.53)	
3Q11	442.12	7/5/2011	NE	35.99	NA	NA	NA	406.13		
4Q11	442.12	10/5/2011	NE	34.84	NA	NA	NA	407.28		
1Q12	442.12	1/3/2012	NE	36.83	NA	NA	NA	405.29		
2Q12	442.12	4/2/2012	NE	37.96	NA	NA	NA	404.16		
3Q12	442.12	7/2/2012	NE	38.29	NA	NA	NA	403.83		
4Q12	442.12	10/1/2012	NE	39.46	NA	NA	NA	402.66		
ROST-4-PZ(G)										
2Q11	442.13	4/25/2011	NE	38.08	NA	NA	NA	404.05	407.85 - 397.85 (34.28 - 44.28)	
3Q11	442.13	7/5/2011	NE	35.76	NA	NA	NA	406.37		
4Q11	442.13	10/5/2011	NE	35.07	NA	NA	NA	407.06		
1Q12	442.13	1/3/2012	NE	37.44	NA	NA	NA	404.69		
2Q12	442.13	4/2/2012	NE	38.61	NA	NA	NA	403.52		
3Q12	442.13	7/2/2012	NE	38.79	NA	NA	NA	403.34		
4Q12	442.13	10/1/2012	NE	40.54	NA	NA	NA	401.59		
ROST-5-PZ	***(PERCHED WELL)***									
4Q10	442.22	11/12/2010	NE	NE	NA	NA	NA	NA	429.02 - 419.02 (13.20 - 23.20)	Well Dry
1Q11	442.22	1/13/2011	NE	NE	NA	NA	NA	NA		Well Dry
2Q11	442.22	4/25/2011	NE	NE	NA	NA	NA	NA		Well Dry
3Q11	442.22	7/5/2011	NE	NE	NA	NA	NA	NA		Well Dry
	442.22	9/19/2011	NE	NE	NA	NA	NA	NA		Well Dry
4Q11	442.22	10/5/2011	NE	NE	NA	NA	NA	NA		Well Dry
1Q12	442.22	1/3/2012	NE	NE	NA	NA	NA	NA		Well Dry
2Q12	442.22	4/2/2012	NE	NE	NA	NA	NA	NA		Well Dry
3Q12	442.22	7/2/2012	NE	NE	NA	NA	NA	NA		Well Dry
4Q12	442.22	10/1/2012	NE	NE	NA	NA	NA	NA		Well Dry
ROST-7-PZ	***(PERCHED WELL)***									
4Q10	442.19	11/12/2010	NE	22.93	NA	NA	NA	419.26	422.19 - 412.19 (20.00 - 30.00)	
1Q11	442.19	1/13/2011	NE	23.74	NA	NA	NA	418.45		
2Q11	442.19	4/25/2011	NE	23.72	NA	NA	NA	418.47		
3Q11	442.19	7/5/2011	NE	22.05	NA	NA	NA	420.14		
	442.19	9/19/2011	NE	22.63	NA	NA	NA	419.56		
4Q11	442.19	10/5/2011	NE	22.52	NA	NA	NA	419.67		
1Q12	442.19	1/3/2012	NE	23.64	NA	NA	NA	418.55		
2Q12	442.19	4/2/2012	NE	24.08	NA	NA	NA	418.11		
3Q12	442.19	7/2/2012	NE	23.33	NA	NA	NA	418.86		
4Q12	442.19	10/1/2012	NE	23.86	NA	NA	NA	418.33		
ROST-10-PZ	***(PERCHED WELL)***									
4Q10	444.51	11/12/2010	NE	NE	NA	NA	NA	NA	434.51 - 424.51 (10.00 - 20.00)	Well Dry
1Q11	444.51	1/13/2011	NE	NE	NA	NA	NA	NA		Well Dry
2Q11	444.51	4/25/2011	NE	NE	NA	NA	NA	NA		Well Dry
3Q11	444.51	7/5/2011	NE	19.67	NA	NA	NA	424.84		
	444.51	9/19/2011	NE	19.88	NA	NA	NA	424.63		
4Q11	444.51	10/5/2011	NE	NE	NA	NA	NA	NA		Well Dry
1Q12	444.51	1/3/2012	NE	NE	NA	NA	NA	NA		Well Dry
2Q12	444.51	4/2/2012	NE	NE	NA	NA	NA	NA		Well Dry
3Q12	444.51	7/2/2012	NE	NE	NA	NA	NA	NA		Well Dry
4Q12	444.51	10/1/2012	NE	NE	NA	NA	NA	NA		Well Dry

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
ROST-21-PZ	***(PERCHED WELL)***									
4Q10	443.72	11/12/2010	NE	19.30	NA	NA	NA	424.42	433.72 - 423.72 (10.00 - 20.00)	
1Q11	443.72	1/13/2011	NE	19.59	NA	NA	NA	424.13		
2Q11	443.72	4/25/2011	NE	19.04	NA	NA	NA	424.68		
3Q11	443.72	7/5/2011	NE	18.37	NA	NA	NA	425.35		
	443.72	9/19/2011	NE	19.26	NA	NA	NA	424.46		
4Q11	443.72	10/5/2011	NE	NE	NA	NA	NA	NA		Well Dry
1Q12	443.72	1/3/2012	NE	19.81	NA	NA	NA	423.91		
2Q12	443.72	4/2/2012	NE	NE	NA	NA	NA	NA		Well Dry
3Q12	443.72	7/2/2012	NE	19.34	NA	NA	NA	424.38		
4Q12	443.72	10/1/2012	NE	NE	NA	NA	NA	NA		Well Dry
S-1										
1Q10	443.79	1/1/2010	40.88	46.14	397.65	402.91	5.26	401.86	Unknown	Product confirmed on interface probe.
2Q10	443.79	4/1/2010	39.38	44.32	399.47	404.41	4.94	403.42		Product confirmed on interface probe.
3Q10	443.79	7/1/2010	38.27	43.29	400.50	405.52	5.02	404.52		Product confirmed on interface probe.
4Q10	443.79	11/11/2010	36.96	41.91	401.88	406.83	4.95	405.84		
1Q11	443.79	1/13/2011	36.41	41.33	402.46	407.38	4.92	406.40		
2Q11	443.79	4/25/2011	38.70	38.73	405.06	405.09	0.03	405.08		
3Q11	443.79	7/5/2011	36.50	36.54	407.25	407.29	0.04	407.28		
	443.79	9/19/2011	NE	36.42	NA	NA	NA	407.37		
4Q11	443.79	10/6/2011	NE	36.68	NA	NA	NA	407.11		
1Q12	443.79	1/3/2012	NE	38.36	NA	NA	NA	405.43		
2Q12	443.79	4/3/2012	NE	39.83	NA	NA	NA	403.96		
3Q12	443.79	7/3/2012	NE	40.38	NA	NA	NA	403.41		
4Q12	443.79	10/1/2012	NE	41.93	NA	NA	NA	401.86		
T-1										
1Q10	444.55	1/1/2010	NE	46.55	NA	NA	NA	398.00	396.92-373.00 (47.63 - 71.55)	
2Q10	444.55	4/1/2010	NE	45.51	NA	NA	NA	399.04		*
3Q10	444.55	7/1/2010	NM	NM	NA	NA	NA	NA		Area flooded, unable to access.
4Q10	444.55	11/11/2010	NE	39.08	NA	NA	NA	405.47		*
1Q11	444.55	1/13/2011	NE	41.02	NA	NA	NA	403.53		*
2Q11	444.55	4/25/2011	NE	46.65	NA	NA	NA	397.90		
3Q11	444.55	7/5/2011	NE	35.99	NA	NA	NA	408.56		*
	444.55	9/19/2011	NE	51.50	NA	NA	NA	393.05		
4Q11	444.55	10/6/2011	NE	50.83	NA	NA	NA	393.72		
1Q12	445.40	1/3/2012	NM	NM	NA	NA	NA	NA	398.40 - 388.40 (43.91 - 53.91)	Well Could Not Be Opened
2Q12	445.40	4/2/2012	NE	40.09	NA	NA	NA	405.31		*
3Q12	445.40	7/2/2012	NE	41.19	NA	NA	NA	404.21		*
4Q12	445.40	10/1/2012	NE	42.90	NA	NA	NA	402.50		*
T-2										
1Q10	443.13	1/1/2010	NE	41.81	NA	NA	NA	401.32	392.63 - 372.48 (50.50 - 70.65)	*
2Q10	443.13	4/1/2010	NE	40.35	NA	NA	NA	402.78		*
3Q10	443.13	7/1/2010	NE	39.16	NA	NA	NA	403.97		*
4Q10	443.13	11/11/2010	NE	37.51	NA	NA	NA	405.62		*
1Q11	443.13	1/13/2011	NE	36.97	NA	NA	NA	406.16		*
2Q11	443.13	4/25/2011	NE	38.03	NA	NA	NA	405.10		*
3Q11	443.13	7/5/2011	NE	35.89	NA	NA	NA	407.24		*
	443.13	9/19/2011	NE	35.80	NA	NA	NA	407.33		*
4Q11	443.13	10/6/2011	NE	35.97	NA	NA	NA	407.16		*
1Q12	443.13	1/3/2012	NE	34.44	NA	NA	NA	408.69		*
2Q12	443.13	4/2/2012	NE	38.68	NA	NA	NA	404.45		*
3Q12	443.13	7/2/2012	NE	39.15	NA	NA	NA	403.98		*
4Q12	443.13	10/1/2012	NE	41.11	NA	NA	NA	402.02		*
T-3										
1Q10	450.91	1/1/2010	NE	50.99	NA	NA	NA	399.92	403.65 - 388.65 (47.26 - 62.26)	
2Q10	450.91	4/1/2010	NE	48.84	NA	NA	NA	402.07		
3Q10	450.91	7/1/2010	NE	48.07	NA	NA	NA	402.84		
4Q10	450.91	10/1/2010	NE	45.66	NA	NA	NA	405.25		*
1Q11	450.91	1/13/2011	NE	44.64	NA	NA	NA	406.27		*
2Q11	450.91	4/1/2011	NE	46.50	NA	NA	NA	404.41		*
3Q11	450.91	7/5/2011	NE	43.85	NA	NA	NA	407.06		*
	450.91	9/19/2011	NE	44.60	NA	NA	NA	406.31		*
4Q11	450.91	10/6/2011	NE	45.68	NA	NA	NA	405.23		*
1Q12	450.91	1/4/2012	NE	45.83	NA	NA	NA	405.08		*
2Q12	450.91	4/2/2012	NE	47.09	NA	NA	NA	403.82		*
3Q12	450.91	7/2/2012	NE	48.00	NA	NA	NA	402.91		
4Q12	450.91	10/1/2012	NE	50.04	NA	NA	NA	400.87		
T-4										
1Q10	447.95	1/1/2010	NE	48.38	NA	NA	NA	399.57	398.24 - 383.24 (49.71 - 64.71)	*
2Q10	447.95	4/1/2010	NE	46.44	NA	NA	NA	401.51		*
3Q10	447.95	7/1/2010	NE	45.22	NA	NA	NA	402.73		*
4Q10	447.95	10/1/2010	NE	42.99	NA	NA	NA	404.96		*
1Q11	447.95	1/13/2011	NE	41.38	NA	NA	NA	406.57		*
2Q11	447.95	4/1/2011	NE	42.23	NA	NA	NA	405.72		*
3Q11	447.95	7/5/2011	NE	39.83	NA	NA	NA	408.12		*
	447.95	9/19/2011	NE	41.97	NA	NA	NA	405.98		*
4Q11	447.95	10/6/2011	NE	42.04	NA	NA	NA	405.91		*
1Q12	447.95	1/3/2012	NE	43.35	NA	NA	NA	404.60		*
2Q12	447.95	4/3/2012	NE	45.47	NA	NA	NA	402.48		*
3Q12	447.95	7/3/2012	NE	46.57	NA	NA	NA	401.38		*
4Q12	447.95	10/1/2012	NE	46.78	NA	NA	NA	401.17		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-5										
1Q10	443.46	1/1/2010	NE	40.79	NA	NA	NA	402.67	395.13 - 378.58 (48.33 - 64.88)	*
2Q10	443.46	4/1/2010	NE	39.28	NA	NA	NA	404.18		*
3Q10	443.46	7/1/2010	NM	NM	NA	NA	NA	NA		Tank yard flooded, unable to access.
4Q10	443.46	10/1/2010	NE	36.59	NA	NA	NA	406.87		*
1Q11	443.46	1/1/2011	NE	36.09	NA	NA	NA	407.37		*
2Q11	443.46	4/1/2011	NE	37.30	NA	NA	NA	406.16		*
3Q11	443.46	7/5/2011	NE	35.28	NA	NA	NA	408.18		*
4Q11	443.46	10/6/2011	NE	35.84	NA	NA	NA	407.62		*
1Q12	443.46	1/3/2012	NE	37.31	NA	NA	NA	406.15		*
2Q12	443.46	4/3/2012	NE	38.87	NA	NA	NA	404.59		*
3Q12	443.46	7/6/2012	NE	39.81	NA	NA	NA	403.65		*
4Q12	443.46	10/1/2012	NE	41.08	NA	NA	NA	402.38		*
T-6										
1Q10	446.55	1/1/2010	NE	44.09	NA	NA	NA	402.46	394.79 - 380.54 (51.76 - 66.01)	*
2Q10	446.55	4/1/2010	NE	42.83	NA	NA	NA	403.72		*
3Q10	446.55	7/1/2010	NE	41.74	NA	NA	NA	404.81		*
4Q10	446.55	11/12/2010	NE	40.77	NA	NA	NA	405.78		*
1Q11	446.55	1/13/2011	NE	41.07	NA	NA	NA	405.48		*
2Q11	446.55	4/25/2011	NE	42.01	NA	NA	NA	404.54		*
3Q11	446.55	7/5/2011	NE	39.58	NA	NA	NA	406.97		*
	446.55	9/19/2011	NE	38.95	NA	NA	NA	407.60		*
4Q11	446.55	10/6/2011	NE	39.26	NA	NA	NA	407.29		*
1Q12	446.55	1/4/2012	NE	41.46	NA	NA	NA	405.09		*
2Q12	446.55	4/3/2012	NE	42.88	NA	NA	NA	403.67		*
3Q12	446.55	7/5/2012	NE	43.06	NA	NA	NA	403.49		*
4Q12	446.55	10/2/2012	NE	44.86	NA	NA	NA	401.69		*
T-7										
1Q10	444.01	1/1/2010	39.87	40.02	403.99	404.14	0.15	404.11	395.29 - 380.29 (48.72 - 63.72)	*Product confirmed on interface probe.
2Q10	444.01	4/1/2010	38.74	38.89	405.12	405.27	0.15	405.24		*Product confirmed on interface probe.
3Q10	444.01	7/1/2010	37.21	37.37	406.64	406.80	0.16	406.77		*Product confirmed on interface probe.
4Q10	444.01	10/1/2010	36.24	36.40	407.61	407.77	0.16	407.74		*Product confirmed on interface probe.
1Q11	444.01	1/13/2011	36.74	36.87	407.14	407.27	0.13	407.24		*
2Q11	444.01	4/1/2011	37.20	37.25	406.76	406.81	0.05	406.80		*
3Q11	444.01	7/5/2011	35.08	35.16	408.85	408.93	0.08	408.91		*
	444.01	9/19/2011	35.14	35.19	408.82	408.87	0.05	408.86		*
4Q11	444.01	10/5/2011	35.36	35.43	408.58	408.65	0.07	408.64		*
1Q12	444.01	1/4/2012	37.05	37.08	406.93	406.96	0.03	406.95		*
2Q12	444.01	4/3/2012	38.45	38.45	405.56	405.56	0.00	405.56		*
3Q12	444.01	7/2/2012	38.90	38.96	405.05	405.11	0.06	405.10		*
4Q12	444.01	10/2/2012	40.80	40.83	403.18	403.21	0.03	403.20		*
T-12										
1Q10	444.69	1/1/2010	NE	42.94	NA	NA	NA	401.75	398.23 - 372.23 (46.46 - 72.46)	*
2Q10	444.69	4/1/2010	NE	41.59	NA	NA	NA	403.10		*
3Q10	444.69	7/1/2010	NE	41.21	NA	NA	NA	403.48		*
4Q10	444.69	11/12/2010	NE	40.35	NA	NA	NA	404.34		*
1Q11	444.69	1/13/2011	NE	40.30	NA	NA	NA	404.39		*
2Q11	444.69	4/25/2011	NE	41.40	NA	NA	NA	403.29		*
3Q11	444.69	7/5/2011	NE	39.07	NA	NA	NA	405.62		*
	444.69	9/19/2011	NE	38.06	NA	NA	NA	406.63		*
4Q11	444.69	10/6/2011	NE	38.23	NA	NA	NA	406.46		*
1Q12	444.69	1/4/2012	NE	40.64	NA	NA	NA	404.05		*
2Q12	444.69	4/3/2012	NE	42.06	NA	NA	NA	402.63		*
3Q12	444.69	7/5/2012	NE	42.05	NA	NA	NA	402.64		*
4Q12	444.69	10/2/2012	NE	43.86	NA	NA	NA	400.83		*
T-13										
1Q10	443.46	1/1/2010	NE	41.27	NA	NA	NA	402.19	396.46 - 370.46 (46.1 - 72.1)	*
2Q10	443.46	4/1/2010	NE	40.02	NA	NA	NA	403.44		*
3Q10	443.46	7/1/2010	NE	38.72	NA	NA	NA	404.74		*
4Q10	443.46	11/11/2010	NE	37.37	NA	NA	NA	406.09		*
1Q11	443.46	1/13/2011	NE	37.57	NA	NA	NA	405.89		*
2Q11	443.46	4/25/2011	NE	38.25	NA	NA	NA	405.21		*
3Q11	443.46	7/5/2011	NM	NM	NA	NA	NA	NA		
	443.46	9/19/2011	NE	37.54	NA	NA	NA	405.92		*
4Q11	443.46	10/5/2011	NE	35.78	NA	NA	NA	407.68		*
1Q12	443.46	1/3/2012	NE	37.42	NA	NA	NA	406.04		*
2Q12	443.46	4/2/2012	NE	38.69	NA	NA	NA	404.77		*
3Q12	443.46	7/2/2012	NE	39.09	NA	NA	NA	404.37		*
4Q12	443.46	10/2/2012	NE	40.81	NA	NA	NA	402.65		*
T-15										
1Q10	445.03	1/1/2010	NE	43.88	NA	NA	NA	401.15	396.99 - 370.99 (48.04 - 74.04)	*
2Q10	445.03	4/1/2010	NE	42.39	NA	NA	NA	402.64		*
3Q10	445.03	7/1/2010	NE	41.07	NA	NA	NA	403.96		*
4Q10	445.03	10/1/2010	NE	39.31	NA	NA	NA	405.72		*
1Q11	445.03	1/13/2011	NE	38.39	NA	NA	NA	406.64		*
2Q11	445.03	4/1/2011	NE	39.55	NA	NA	NA	405.48		*
3Q11	445.03	7/5/2011	NE	37.35	NA	NA	NA	407.68		*
	445.03	9/19/2011	NE	37.59	NA	NA	NA	407.44		*
4Q11	445.03	10/6/2011	NE	37.79	NA	NA	NA	407.24		*
1Q12	445.03	1/3/2012	NE	38.97	NA	NA	NA	406.06		*
2Q12	445.03	4/2/2012	NE	40.28	NA	NA	NA	404.75		*
3Q12	445.03	7/2/2012	NE	40.90	NA	NA	NA	404.13		*
4Q12	445.03	10/1/2012	NE	42.81	NA	NA	NA	402.22		*

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-17										
1Q10	445.90	1/1/2010	NE	42.57	NA	NA	NA	403.33	401.80 - 375.80 (44.10 - 70.10)	*
2Q10	445.90	4/1/2010	NE	41.12	NA	NA	NA	404.78		*
3Q10	445.90	7/1/2010	NE	39.60	NA	NA	NA	406.30		*
4Q10	445.90	10/1/2010	NE	38.11	NA	NA	NA	407.79		*
1Q11	445.90	1/13/2011	NE	37.11	NA	NA	NA	408.79		*
2Q11	445.90	4/1/2011	NE	37.30	NA	NA	NA	408.60		*
3Q11	445.90	7/5/2011	NE	35.17	NA	NA	NA	410.73		*
	445.90	9/19/2011	NE	35.90	NA	NA	NA	410.00		*
4Q11	445.90	10/6/2011	NE	36.23	NA	NA	NA	409.67		*
1Q12	445.90	1/3/2012	NE	37.37	NA	NA	NA	408.53		*
2Q12	445.90	4/2/2012	NE	38.79	NA	NA	NA	407.11		*
3Q12	445.90	7/2/2012	NE	39.29	NA	NA	NA	406.61		*
4Q12	445.90	10/1/2012	NE	40.92	NA	NA	NA	404.98		*
T-19										
1Q10	446.71	1/1/2010	46.55	48.07	398.64	400.16	1.52	399.86	395.94 - 369.94 (50.77 - 76.77)	*Product confirmed on interface probe.
2Q10	446.71	4/1/2010	44.64	46.11	400.60	402.07	1.47	401.78		*Product confirmed on interface probe.
3Q10	446.71	7/1/2010	43.47	44.91	401.80	403.24	1.44	402.95		*Product confirmed on interface probe.
4Q10	446.71	10/1/2010	41.39	42.73	403.98	405.32	1.34	405.05		*Product confirmed on interface probe.
1Q11	446.71	1/13/2011	39.78	41.15	405.56	406.93	1.37	406.66		*
2Q11	446.71	4/1/2011	40.88	40.90	405.81	405.83	0.02	405.83		*
3Q11	446.71	7/5/2011	38.47	38.50	408.21	408.24	0.03	408.23		*
	446.71	9/19/2011	40.60	40.64	406.07	406.11	0.04	406.10		*
4Q11	446.71	10/6/2011	40.65	40.69	406.02	406.06	0.04	406.05		*
1Q12	446.71	1/3/2012	41.97	41.98	404.73	404.74	0.01	404.74		*
2Q12	446.71	4/3/2012	NE	44.09	NA	NA	NA	402.62		*
3Q12	446.71	7/3/2012	NE	45.36	NA	NA	NA	401.35		*
4Q12	446.71	10/1/2012	NE	45.41	NA	NA	NA	401.30		*
T-21										
1Q10	444.00	1/1/2010	NE	33.39	NA	NA	NA	410.61	412.04 - 386.04 (31.96 - 57.96)	
2Q10	444.00	4/1/2010	NE	32.11	NA	NA	NA	411.89		
3Q10	444.00	7/1/2010	NE	30.79	NA	NA	NA	413.21		*
4Q10	444.00	10/1/2010	NE	29.65	NA	NA	NA	414.35		*
1Q11	444.00	1/13/2011	NE	29.96	NA	NA	NA	414.04		*
2Q11	444.00	4/1/2011	NE	29.83	NA	NA	NA	414.17		*
3Q11	444.00	7/5/2011	NE	28.17	NA	NA	NA	415.83		*
	444.00	9/19/2011	NE	28.24	NA	NA	NA	415.76		*
4Q11	444.00	10/5/2011	NE	28.41	NA	NA	NA	415.59		*
1Q12	444.00	1/4/2012	NE	29.56	NA	NA	NA	414.44		*
2Q12	444.00	4/3/2012	NE	30.65	NA	NA	NA	413.35		*
3Q12	444.00	7/2/2012	NE	31.14	NA	NA	NA	412.86		*
4Q12	444.00	10/2/2012	NE	32.62	NA	NA	NA	411.38		
T-22										
1Q10	442.21	1/1/2010	NE	34.13	NA	NA	NA	408.08	410.66 - 384.96 (31.55 - 57.25)	
2Q10	442.21	4/1/2010	NE	32.69	NA	NA	NA	409.52		
3Q10	442.21	7/1/2010	NE	31.11	NA	NA	NA	411.10		*
4Q10	442.21	10/1/2010	NE	30.12	NA	NA	NA	412.09		*
1Q11	442.21	1/13/2011	NE	31.04	NA	NA	NA	411.17		*
2Q11	442.21	4/1/2011	NE	30.96	NA	NA	NA	411.25		*
3Q11	442.21	7/5/2011	NE	29.00	NA	NA	NA	413.21		*
	442.21	9/19/2011	NE	29.26	NA	NA	NA	412.95		*
4Q11	442.21	10/5/2011	NE	29.51	NA	NA	NA	412.70		*
1Q12	442.21	1/4/2012	NE	30.91	NA	NA	NA	411.30		*
2Q12	442.21	4/3/2012	NE	32.34	NA	NA	NA	409.87		
3Q12	442.21	7/2/2012	NE	32.81	NA	NA	NA	409.40		
4Q12	442.21	10/2/2012	NE	34.45	NA	NA	NA	407.76		
T-23										
1Q10	432.64	1/1/2010	NE	26.27	NA	NA	NA	406.37	405.41 - 379.41 (27.23 - 53.23)	*
2Q10	432.64	4/1/2010	NE	25.00	NA	NA	NA	407.64		*
3Q10	432.64	7/1/2010	NE	23.35	NA	NA	NA	409.29		*
4Q10	432.64	10/1/2010	NE	22.41	NA	NA	NA	410.23		*
1Q11	432.64	1/13/2011	NE	23.83	NA	NA	NA	408.81		*
2Q11	432.64	4/1/2011	NE	23.40	NA	NA	NA	409.24		*
3Q11	432.64	7/5/2011	NE	21.22	NA	NA	NA	411.42		*
	432.64	9/19/2011	NE	27.83	NA	NA	NA	404.81		
4Q11	432.64	10/5/2011	NE	22.21	NA	NA	NA	410.43		*
1Q12	432.64	1/3/2012	NE	23.75	NA	NA	NA	408.89		*
2Q12	432.64	4/2/2012	NE	25.10	NA	NA	NA	407.54		*
3Q12	432.64	7/2/2012	NE	25.60	NA	NA	NA	407.04		*
4Q12	432.64	10/2/2012	NE	27.37	NA	NA	NA	405.27		
T-24										
1Q10	443.72	1/1/2010	42.68	43.03	400.69	401.04	0.35	400.97	402.22 - 376.57 (41.50 - 67.15)	Product confirmed on interface probe.
2Q10	443.72	4/1/2010	41.25	41.55	402.17	402.47	0.30	402.41		*Product confirmed on interface probe.
3Q10	443.72	7/1/2010	40.36	40.68	403.04	403.36	0.32	403.29		*Product confirmed on interface probe.
4Q10	443.72	11/11/2010	39.07	39.38	404.34	404.65	0.31	404.59		*
1Q11	443.72	1/13/2011	38.60	38.92	404.80	405.12	0.32	405.05		*
2Q11	443.72	4/25/2011	NE	39.98	NA	NA	NA	403.74		*
3Q11	443.72	7/5/2011	NE	37.53	NA	NA	NA	406.19		*
	443.72	9/19/2011	NE	35.08	NA	NA	NA	408.64		*
4Q11	443.72	10/6/2011	NE	37.29	NA	NA	NA	406.43		*
1Q12	443.72	1/3/2012	NE	38.36	NA	NA	NA	405.36		*
2Q12	443.72	4/3/2012	NE	40.56	NA	NA	NA	403.16		*
3Q12	443.72	7/3/2012	NE	40.45	NA	NA	NA	403.27		*
4Q12	443.72	10/1/2012	42.02	44.87	398.85	401.70	2.85	401.13		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-28										
1Q10	444.22	1/1/2010	NE	42.49	NA	NA	NA	401.73	Unknown	
2Q10	444.22	4/1/2010	NE	40.94	NA	NA	NA	403.28		
3Q10	444.22	7/1/2010	NM	NM	NA	NA	NA	NA		Area regraded; equipment staging yard; unable to locate.
4Q10	444.22	10/1/2010	NE	37.65	NA	NA	NA	406.57		
1Q11	444.22	1/13/2011	NE	36.53	NA	NA	NA	407.69		
2Q11	444.22	4/1/2011	NE	37.18	NA	NA	NA	407.04		
3Q11	444.22	7/5/2011	NE	34.89	NA	NA	NA	409.33		
	444.22	9/19/2011	NE	35.75	NA	NA	NA	408.47		
4Q11	444.22	10/6/2011	NE	35.98	NA	NA	NA	408.24		
1Q12	444.22	1/3/2012	NE	36.98	NA	NA	NA	407.24		
2Q12	444.22	4/2/2012	NE	38.68	NA	NA	NA	405.54		
3Q12	444.22	7/2/2012	NE	39.28	NA	NA	NA	404.94		
4Q12	444.22	10/1/2012	NE	40.88	NA	NA	NA	403.34		
T-38										
1Q10	445.62	1/1/2010	NE	39.77	NA	NA	NA	405.85	396.48 - 376.48 (49.14 - 69.14)	*
2Q10	445.62	4/1/2010	NE	38.35	NA	NA	NA	407.27		*
3Q10	445.62	7/1/2010	NE	37.00	NA	NA	NA	408.62		*
4Q10	445.62	10/1/2010	NE	35.45	NA	NA	NA	410.17		*
1Q11	445.62	1/1/2011	NE	35.38	NA	NA	NA	410.24		*
3Q11	445.62	7/5/2011	NM	NM	NA	NA	NA	NA		
4Q11	445.62	10/6/2011	NE	34.38	NA	NA	NA	411.24		*
1Q12	445.62	1/3/2012	NE	35.40	NA	NA	NA	410.22		*
2Q12	445.62	4/2/2012	NE	36.25	NA	NA	NA	409.37		*
3Q12	445.62	7/3/2012	NE	37.00	NA	NA	NA	408.62		*
4Q12	445.62	10/1/2012	NE	38.61	NA	NA	NA	407.01		*
T-62										
1Q10	431.73	1/1/2010	NE	27.30	NA	NA	NA	404.43	412.02 - 382.02 (19.71 - 49.71)	
2Q10	431.73	4/1/2010	NE	25.98	NA	NA	NA	405.75		
3Q10	431.73	7/1/2010	NE	23.99	NA	NA	NA	407.74		
4Q10	431.73	11/11/2010	NE	23.49	NA	NA	NA	408.24		
1Q11	431.73	1/13/2011	NE	25.48	NA	NA	NA	406.25		
2Q11	431.73	4/25/2011	NE	25.33	NA	NA	NA	406.40		
3Q11	431.73	7/5/2011	NE	22.37	NA	NA	NA	409.36		
	431.73	9/19/2011	NE	23.12	NA	NA	NA	408.61		
4Q11	431.73	10/5/2011	NE	23.46	NA	NA	NA	408.27		
1Q12	431.73	1/3/2012	NE	25.62	NA	NA	NA	406.11		
2Q12	431.73	4/2/2012	NE	27.08	NA	NA	NA	404.65		
3Q12	431.73	7/3/2012	NE	27.20	NA	NA	NA	404.53		
4Q12	431.73	10/2/2012	NE	29.28	NA	NA	NA	402.45		
T-63										
1Q10	431.24	1/1/2010	NE	26.94	NA	NA	NA	404.30	411.26 - 381.26 (19.98 - 49.98)	
2Q10	431.24	4/1/2010	NE	25.42	NA	NA	NA	405.82		
3Q10	431.24	7/1/2010	NE	23.23	NA	NA	NA	408.01		
4Q10	431.24	11/11/2010	NE	23.03	NA	NA	NA	408.21		
1Q11	431.24	1/13/2011	NE	25.45	NA	NA	NA	405.79		
2Q11	431.24	4/25/2011	NM	NM	NA	NA	NA	NA		Unable to open.
3Q11	431.24	7/5/2011	NM	NM	NA	NA	NA	NA		
	431.24	9/19/2011	NE	22.88	NA	NA	NA	408.36		
4Q11	431.24	10/5/2011	NE	23.28	NA	NA	NA	407.96		
1Q12	431.24	1/3/2012	NE	25.60	NA	NA	NA	405.64		
2Q12	431.24	4/2/2012	NM	NM	NA	NA	NA	NA		
3Q12	431.24	7/3/2012	NE	27.08	NA	NA	NA	404.16		
4Q12	431.24	10/2/2012	NE	29.19	NA	NA	NA	402.05		
T-64										
1Q10	428.80	1/1/2010	NE	24.72	NA	NA	NA	404.08	408.99 - 378.99 (19.81 - 49.81)	
2Q10	428.80	4/1/2010	NE	22.91	NA	NA	NA	405.89		
3Q10	428.80	7/1/2010	NE	20.46	NA	NA	NA	408.34		
4Q10	428.80	11/11/2010	NE	20.76	NA	NA	NA	408.04		
1Q11	428.80	1/13/2011	NE	23.84	NA	NA	NA	404.96		
3Q11	428.80	7/5/2011	NE	19.06	NA	NA	NA	409.74		*
	428.80	9/19/2011	NE	21.86	NA	NA	NA	406.94		
4Q11	428.80	10/5/2011	NE	21.36	NA	NA	NA	407.44		
1Q12	428.80	1/3/2012	NE	23.86	NA	NA	NA	404.94		
2Q12	428.80	4/2/2012	NE	25.10	NA	NA	NA	403.70		
3Q12	428.80	7/3/2012	NE	25.24	NA	NA	NA	403.56		
4Q12	428.80	10/2/2012	NE	27.44	NA	NA	NA	401.36		
PZ-1-101										
4Q11	445.52	10/5/2011	NE	37.83	NA	NA	NA	407.69	354.52 - 344.52 (91.00 - 101.00)	*
1Q12	445.52	1/3/2012	NE	39.73	NA	NA	NA	405.79		*
2Q12	445.52	4/4/2012	NE	41.14	NA	NA	NA	404.38		*
3Q12	445.52	7/2/2012	NE	41.28	NA	NA	NA	404.24		*
4Q12	445.52	10/1/2012	NE	42.95	NA	NA	NA	402.57		*
PZ-1-85										
4Q11	445.50	10/5/2011	NE	37.85	NA	NA	NA	407.65	369.70 - 359.70 (75.80 - 85.80)	*
1Q12	445.50	1/3/2012	NE	39.80	NA	NA	NA	405.70		*
2Q12	445.50	4/4/2012	NE	41.05	NA	NA	NA	404.45		*
3Q12	445.50	7/2/2012	NE	41.35	NA	NA	NA	404.15		*
4Q12	445.50	10/1/2012	NE	43.06	NA	NA	NA	402.44		*
PZ-2-70.5										
4Q11	443.15	10/5/2011	NE	35.74	NA	NA	NA	407.41	382.65 - 372.65 (60.50 - 70.50)	*
1Q12	443.15	1/3/2012	NE	38.14	NA	NA	NA	405.01		*
2Q12	443.15	4/4/2012	NE	39.43	NA	NA	NA	403.72		*
3Q12	443.15	7/2/2012	NE	39.57	NA	NA	NA	403.58		*
4Q12	443.15	10/1/2012	NE	41.32	NA	NA	NA	401.83		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
PZ-2-84										
4Q11	443.12	10/5/2011	NE	35.71	NA	NA	NA	407.41	371.12 - 359.12 (72.00 - 84.00)	*
1Q12	443.12	1/3/2012	NE	38.05	NA	NA	NA	405.07		*
2Q12	443.12	4/4/2012	NE	39.37	NA	NA	NA	403.75		*
3Q12	443.12	7/2/2012	NE	39.48	NA	NA	NA	403.64		*
4Q12	443.12	10/1/2012	NE	41.21	NA	NA	NA	401.91		*

NOTES:
1) Elevations presented in this table are relative to the 1988 USGS datum.
2) The Corrected W.L. Elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.
3) NA = Not Applicable; NE = Not Encountered; NM = Not Measured
4) * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.
5) Table includes comprehensive groundwater monitoring well gauging data from the combined Village of Roxana Interim Groundwater Monitoring Program and the WRB Refining LP Wood River Refinery Program.

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-17										
1Q10	445 90	1/1/2010	NE	42 57	NA	NA	NA	403 33	401 80 - 375 80 (44 10 - 70 10)	*
2Q10	445 90	4/1/2010	NE	41 12	NA	NA	NA	404 78		*
3Q10	445 90	7/1/2010	NE	39 60	NA	NA	NA	406 30		*
4Q10	445 90	10/1/2010	NE	38 11	NA	NA	NA	407 79		*
1Q11	445 90	1/13/2011	NE	37 11	NA	NA	NA	408 79		*
2Q11	445 90	4/1/2011	NE	37 30	NA	NA	NA	408 60		*
3Q11	445 90	7/5/2011	NE	35 17	NA	NA	NA	410 73		*
	445 90	9/19/2011	NE	35 90	NA	NA	NA	410 00		*
4Q11	445 90	10/6/2011	NE	36 23	NA	NA	NA	409 67		*
1Q12	445 90	1/3/2012	NE	37 37	NA	NA	NA	408 53		*
2Q12	445 90	4/2/2012	NE	38 79	NA	NA	NA	407 11		*
3Q12	445 90	7/2/2012	NE	39 29	NA	NA	NA	406 61		*
4Q12	445 90	10/1/2012	NE	40 92	NA	NA	NA	404 98		*
T-19										
1Q10	446 71	1/1/2010	46 55	48 07	398 64	400 16	1 52	399 86	395 94 - 369 94 (50 77 - 76 77)	*Product confirmed on interface probe
2Q10	446 71	4/1/2010	44 64	46 11	400 60	402 07	1 47	401 78		*Product confirmed on interface probe
3Q10	446 71	7/1/2010	43 47	44 91	401 80	403 24	1 44	402 95		*Product confirmed on interface probe
4Q10	446 71	10/1/2010	41 39	42 73	403 98	405 32	1 34	405 05		*Product confirmed on interface probe
1Q11	446 71	1/13/2011	39 78	41 15	405 56	406 93	1 37	406 66		*
2Q11	446 71	4/1/2011	40 88	40 90	405 81	405 83	0 02	405 83		*
3Q11	446 71	7/5/2011	38 47	38 50	408 21	408 24	0 03	408 23		*
	446 71	9/19/2011	40 60	40 64	406 07	406 11	0 04	406 10		*
4Q11	446 71	10/6/2011	40 65	40 69	406 02	406 06	0 04	406 05		*
1Q12	446 71	1/3/2012	41 97	41 98	404 73	404 74	0 01	404 74		*
2Q12	446 71	4/3/2012	NE	44 09	NA	NA	NA	402 62		*
3Q12	446 71	7/3/2012	NE	45 36	NA	NA	NA	401 35		*
4Q12	446 71	10/1/2012	NE	45 41	NA	NA	NA	401 30		*
T-21										
1Q10	444 00	1/1/2010	NE	33 39	NA	NA	NA	410 61	412 04 - 386 04 (31 96 - 57 96)	
2Q10	444 00	4/1/2010	NE	32 11	NA	NA	NA	411 89		
3Q10	444 00	7/1/2010	NE	30 79	NA	NA	NA	413 21		*
4Q10	444 00	10/1/2010	NE	29 65	NA	NA	NA	414 35		*
1Q11	444 00	1/13/2011	NE	29 96	NA	NA	NA	414 04		*
2Q11	444 00	4/1/2011	NE	29 83	NA	NA	NA	414 17		*
3Q11	444 00	7/5/2011	NE	28 17	NA	NA	NA	415 83		*
	444 00	9/19/2011	NE	28 24	NA	NA	NA	415 76		*
4Q11	444 00	10/5/2011	NE	28 41	NA	NA	NA	415 59		*
1Q12	444 00	1/4/2012	NE	29 56	NA	NA	NA	414 44		*
2Q12	444 00	4/3/2012	NE	30 65	NA	NA	NA	413 35		*
3Q12	444 00	7/2/2012	NE	31 14	NA	NA	NA	412 86		*
4Q12	444 00	10/2/2012	NE	32 62	NA	NA	NA	411 38		
T-22										
1Q10	442 21	1/1/2010	NE	34 13	NA	NA	NA	408 08	410 66 - 384 96 (31 55 - 57 25)	
2Q10	442 21	4/1/2010	NE	32 69	NA	NA	NA	409 52		
3Q10	442 21	7/1/2010	NE	31 11	NA	NA	NA	411 10		*
4Q10	442 21	10/1/2010	NE	30 12	NA	NA	NA	412 09		*
1Q11	442 21	1/13/2011	NE	31 04	NA	NA	NA	411 17		*
2Q11	442 21	4/1/2011	NE	30 96	NA	NA	NA	411 25		*
3Q11	442 21	7/5/2011	NE	29 00	NA	NA	NA	413 21		*
	442 21	9/19/2011	NE	29 26	NA	NA	NA	412 95		*
4Q11	442 21	10/5/2011	NE	29 51	NA	NA	NA	412 70		*
1Q12	442 21	1/4/2012	NE	30 91	NA	NA	NA	411 30		*
2Q12	442 21	4/3/2012	NE	32 34	NA	NA	NA	409 87		
3Q12	442 21	7/2/2012	NE	32 81	NA	NA	NA	409 40		
4Q12	442 21	10/2/2012	NE	34 45	NA	NA	NA	407 76		
T-23										
1Q10	432 64	1/1/2010	NE	26 27	NA	NA	NA	406 37	405 41 - 379 41 (27 23 - 53 23)	*
2Q10	432 64	4/1/2010	NE	25 00	NA	NA	NA	407 64		*
3Q10	432 64	7/1/2010	NE	23 35	NA	NA	NA	409 29		*
4Q10	432 64	10/1/2010	NE	22 41	NA	NA	NA	410 23		*
1Q11	432 64	1/13/2011	NE	23 83	NA	NA	NA	408 81		*
2Q11	432 64	4/1/2011	NE	23 40	NA	NA	NA	409 24		*
3Q11	432 64	7/5/2011	NE	21 22	NA	NA	NA	411 42		*
	432 64	9/19/2011	NE	27 83	NA	NA	NA	404 81		
4Q11	432 64	10/5/2011	NE	22 21	NA	NA	NA	410 43		*
1Q12	432 64	1/3/2012	NE	23 75	NA	NA	NA	408 89		*
2Q12	432 64	4/2/2012	NE	25 10	NA	NA	NA	407 54		*
3Q12	432 64	7/2/2012	NE	25 60	NA	NA	NA	407 04		*
4Q12	432 64	10/2/2012	NE	27 37	NA	NA	NA	405 27		
T-24										
1Q10	443 72	1/1/2010	42 68	43 03	400 69	401 04	0 35	400 97	402 22 - 376 57 (41 50 - 67 15)	Product confirmed on interface probe
2Q10	443 72	4/1/2010	41 25	41 55	402 17	402 47	0 30	402 41		*Product confirmed on interface probe
3Q10	443 72	7/1/2010	40 36	40 68	403 04	403 36	0 32	403 29		*Product confirmed on interface probe
4Q10	443 72	11/11/2010	39 07	39 38	404 34	404 65	0 31	404 59		*
1Q11	443 72	1/13/2011	38 60	38 92	404 80	405 12	0 32	405 05		*
2Q11	443 72	4/25/2011	NE	39 98	NA	NA	NA	403 74		*
3Q11	443 72	7/5/2011	NE	37 53	NA	NA	NA	406 19		*
	443 72	9/19/2011	NE	35 08	NA	NA	NA	408 64		*
4Q11	443 72	10/6/2011	NE	37 29	NA	NA	NA	406 43		*
1Q12	443 72	1/3/2012	NE	38 36	NA	NA	NA	405 36		*
2Q12	443 72	4/3/2012	NE	40 56	NA	NA	NA	403 16		*
3Q12	443 72	7/3/2012	NE	40 45	NA	NA	NA	403 27		*
4Q12	443 72	10/1/2012	42 02	44 87	398 85	401 70	2 85	401 13		

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
T-28										
1Q10	444 22	1/1/2010	NE	42 49	NA	NA	NA	401 73	Unknown	
2Q10	444 22	4/1/2010	NE	40 94	NA	NA	NA	403 28		
3Q10	444 22	7/1/2010	NM	NM	NA	NA	NA	NA		Area regraded; equipment staging yard; unable to locate
4Q10	444 22	10/1/2010	NE	37 65	NA	NA	NA	406 57		
1Q11	444 22	1/13/2011	NE	36 53	NA	NA	NA	407 69		
2Q11	444 22	4/1/2011	NE	37 18	NA	NA	NA	407 04		
3Q11	444 22	7/5/2011	NE	34 89	NA	NA	NA	409 33		
	444 22	9/19/2011	NE	35 75	NA	NA	NA	408 47		
4Q11	444 22	10/6/2011	NE	35 98	NA	NA	NA	408 24		
1Q12	444 22	1/3/2012	NE	36 98	NA	NA	NA	407 24		
2Q12	444 22	4/2/2012	NE	38 68	NA	NA	NA	405 54		
3Q12	444 22	7/2/2012	NE	39 28	NA	NA	NA	404 94		
4Q12	444 22	10/1/2012	NE	40 88	NA	NA	NA	403 34		
T-38										
1Q10	445 62	1/1/2010	NE	39 77	NA	NA	NA	405 85	396 48 - 376 48 (49 14 - 69 14)	*
2Q10	445 62	4/1/2010	NE	38 35	NA	NA	NA	407 27		*
3Q10	445 62	7/1/2010	NE	37 00	NA	NA	NA	408 62		*
4Q10	445 62	10/1/2010	NE	35 45	NA	NA	NA	410 17		*
1Q11	445 62	1/1/2011	NE	35 38	NA	NA	NA	410 24		*
3Q11	445 62	7/5/2011	NM	NM	NA	NA	NA	NA		
4Q11	445 62	10/6/2011	NE	34 38	NA	NA	NA	411 24		*
1Q12	445 62	1/3/2012	NE	35 40	NA	NA	NA	410 22		*
2Q12	445 62	4/2/2012	NE	36 25	NA	NA	NA	409 37		*
3Q12	445 62	7/3/2012	NE	37 00	NA	NA	NA	408 62		*
4Q12	445 62	10/1/2012	NE	38 61	NA	NA	NA	407 01		*
T-62										
1Q10	431 73	1/1/2010	NE	27 30	NA	NA	NA	404 43	412 02 - 382 02 (19 71 - 49 71)	
2Q10	431 73	4/1/2010	NE	25 98	NA	NA	NA	405 75		
3Q10	431 73	7/1/2010	NE	23 99	NA	NA	NA	407 74		
4Q10	431 73	11/11/2010	NE	23 49	NA	NA	NA	408 24		
1Q11	431 73	1/13/2011	NE	25 48	NA	NA	NA	406 25		
2Q11	431 73	4/25/2011	NE	25 33	NA	NA	NA	406 40		
3Q11	431 73	7/5/2011	NE	22 37	NA	NA	NA	409 36		
	431 73	9/19/2011	NE	23 12	NA	NA	NA	408 61		
4Q11	431 73	10/5/2011	NE	23 46	NA	NA	NA	408 27		
1Q12	431 73	1/3/2012	NE	25 62	NA	NA	NA	406 11		
2Q12	431 73	4/2/2012	NE	27 08	NA	NA	NA	404 65		
3Q12	431 73	7/3/2012	NE	27 20	NA	NA	NA	404 53		
4Q12	431 73	10/2/2012	NE	29 28	NA	NA	NA	402 45		
T-63										
1Q10	431 24	1/1/2010	NE	26 94	NA	NA	NA	404 30	411 26 - 381 26 (19 98 - 49 98)	
2Q10	431 24	4/1/2010	NE	25 42	NA	NA	NA	405 82		
3Q10	431 24	7/1/2010	NE	23 23	NA	NA	NA	408 01		
4Q10	431 24	11/11/2010	NE	23 03	NA	NA	NA	408 21		
1Q11	431 24	1/13/2011	NE	25 45	NA	NA	NA	405 79		
2Q11	431 24	4/25/2011	NM	NM	NA	NA	NA	NA		Unable to open
3Q11	431 24	7/5/2011	NM	NM	NA	NA	NA	NA		
	431 24	9/19/2011	NE	22 88	NA	NA	NA	408 36		
4Q11	431 24	10/5/2011	NE	23 28	NA	NA	NA	407 96		
1Q12	431 24	1/3/2012	NE	25 60	NA	NA	NA	405 64		
2Q12	431 24	4/2/2012	NM	NM	NA	NA	NA	NA		
3Q12	431 24	7/3/2012	NE	27 08	NA	NA	NA	404 16		
4Q12	431 24	10/2/2012	NE	29 19	NA	NA	NA	402 05		
T-64										
1Q10	428 80	1/1/2010	NE	24 72	NA	NA	NA	404 08	408 99 - 378 99 (19 81 - 49 81)	
2Q10	428 80	4/1/2010	NE	22 91	NA	NA	NA	405 89		
3Q10	428 80	7/1/2010	NE	20 46	NA	NA	NA	408 34		
4Q10	428 80	11/11/2010	NE	20 76	NA	NA	NA	408 04		
1Q11	428 80	1/13/2011	NE	23 84	NA	NA	NA	404 96		
3Q11	428 80	7/5/2011	NE	19 06	NA	NA	NA	409 74		*
	428 80	9/19/2011	NE	21 86	NA	NA	NA	406 94		
4Q11	428 80	10/5/2011	NE	21 36	NA	NA	NA	407 44		
1Q12	428 80	1/3/2012	NE	23 86	NA	NA	NA	404 94		
2Q12	428 80	4/2/2012	NE	25 10	NA	NA	NA	403 70		
3Q12	428 80	7/3/2012	NE	25 24	NA	NA	NA	403 56		
4Q12	428 80	10/2/2012	NE	27 44	NA	NA	NA	401 36		
PZ-1-101										
4Q11	445 52	10/5/2011	NE	37 83	NA	NA	NA	407 69	354 52 - 344 52 (91 00 - 101 00)	*
1Q12	445 52	1/3/2012	NE	39 73	NA	NA	NA	405 79		*
2Q12	445 52	4/4/2012	NE	41 14	NA	NA	NA	404 38		*
3Q12	445 52	7/2/2012	NE	41 28	NA	NA	NA	404 24		*
4Q12	445 52	10/1/2012	NE	42 95	NA	NA	NA	402 57		*
PZ-1-85										
4Q11	445 50	10/5/2011	NE	37 85	NA	NA	NA	407 65	369 70 - 359 70 (75 80 - 85 80)	*
1Q12	445 50	1/3/2012	NE	39 80	NA	NA	NA	405 70		*
2Q12	445 50	4/4/2012	NE	41 05	NA	NA	NA	404 45		*
3Q12	445 50	7/2/2012	NE	41 35	NA	NA	NA	404 15		*
4Q12	445 50	10/1/2012	NE	43 06	NA	NA	NA	402 44		*
PZ-2-70.5										
4Q11	443 15	10/5/2011	NE	35 74	NA	NA	NA	407 41	382 65 - 372 65 (60 50 - 70 50)	*
1Q12	443 15	1/3/2012	NE	38 14	NA	NA	NA	405 01		*
2Q12	443 15	4/4/2012	NE	39 43	NA	NA	NA	403 72		*
3Q12	443 15	7/2/2012	NE	39 57	NA	NA	NA	403 58		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
4Q12	443 15	10/1/2012	NE	41 32	NA	NA	NA	401 83		*

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
PZ-2-84										
4Q11	443 12	10/5/2011	NE	35 71	NA	NA	NA	407 41	371 12 - 359 12 (72 00 - 84 00)	*
1Q12	443 12	1/3/2012	NE	38 05	NA	NA	NA	405 07		*
2Q12	443 12	4/4/2012	NE	39 37	NA	NA	NA	403 75		*
3Q12	443 12	7/2/2012	NE	39 48	NA	NA	NA	403 64		*
4Q12	443 12	10/1/2012	NE	41 21	NA	NA	NA	401 91		*

NOTES:
1) Elevations presented in this table are relative to the 1988 USGS datum
2) The Corrected W L Elevations presented in this table were corrected by a specific gravity of 0 80 for the wells in which LNAPL was identified
3) NA = Not Applicable; NE = Not Encountered; NM = Not Measured
4) * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well
5) Table includes comprehensive groundwater monitoring well gauging data from the combined Village of Roxana Interim Groundwater Monitoring Program and the WRB Refining LP Wood River Refinery Program

TABLE 2
SOIL VMP DEPTHS

	Yellow 1st Interval	White 10 foot Depth	Blue 2nd Interval	Green 3rd Interval	Red 4th Interval	Notes:
VMP-1	5		8 5	23 5	38.5	Village of Roxana - 1st Street
VMP-2	5		8 5	22	42	Village of Roxana - Alley Between 3rd and 4th Street
VMP-3	5	10	22	31 5	39	Village of Roxana - Alley Between 2nd and 3rd Street
VMP-4	5		12	23 5	39	Village of Roxana - Alley Between 4th and 5th Street
VMP-5	5		12.5	31	40	Village of Roxana - Alley Between 5th and 6th Street
VMP-6	5		10	31 5	39	Village of Roxana - Alley Between 6th and 7th Street
VMP-7	5		13.5	29 5	38	Village of Roxana - 7th Street
VMP-8	5		9 5	23 5	35.5	Village of Roxana - Alley Between 7th and 8th Street
VMP-9	5		11.5	25 5	38.5	Village of Roxana - Alley Between 7th and 8th Street
VMP-10	5		10	20	30	Public Works Yard
VMP-11	5		8	29	38	Public Works Yard
VMP-12	5		11.5	25	39	WRR- North Property
VMP-13	5		10.5	21 5	29.5	Public Works Yard
VMP-14	5		11.5	20	29	Public Works Yard
VMP-15	5		21.5	25 5	29	Village of Roxana - SE of Route 111 and Rand Avenue
VMP-16	5		13.5	19	31	WRR- Main Property
VMP-17	5					Public Works Yard
VMP-18	8.5					Village of Roxana - 8th Street
VMP-19	5					Village of Roxana - 8th Street
VMP-20	5		10	25	39.5	Village of Roxana - Alley Between 2nd and 3rd Street
VMP-21	5		10	25	33	Village of Roxana - Alley Between 3rd and 4th Street
VMP-22	5		10	18	38	Village of Roxana - Alley Between 4th and 5th Street
VMP-23	5		10	25	40	Village of Roxana - Alley Between 5th and 6th Street
VMP-24	5		10	22	34	Village of Roxana - 7th Street
VMP-25	5		9 5	21	31	Village of Roxana - Corner of Rand Avenue and Route 111
VMP-26	10		20	30	40	WRR - North Property
VMP-27	10		20	30	40	WRR - North Property
VMP-28	10		20	30	40	WRR - North Property
VMP-29	10		20	30	40	Public Works Yard
VMP-30	10		20	30	40	Public Works Yard
VMP-31	5		10	20	30	Village of Roxana - Corner of Chaffer Street and 4th Street
VMP-32	5		10	20	30	Village of Roxana - 4th Street
VMP-33			10	20	30	WRR - North Property
VMP-34			10	20	30	WRR - North Property
VMP-35			10	20	30	WRR - North Property
VMP-36			10	20	30	WRR - North Property
VMP-37			10	20	30	WRR - North Property
VMP-38			10	20	30	WRR - North Property
VMP-39			10	20	30	WRR - North Property
VMP-40			10	20	30	WRR - North Property
VMP-41			10	20	30	Public Works Yard
VMP-42			10	20	30	Village of Roxana - Corner of Chaffer Street and 3rd Street
VMP-43			10	20	30	Village of Roxana - Corner of Chaffer Street and 4th Street
VMP-44			10	20	30	Village of Roxana - Corner of Chaffer Street and 5th Street
VMP-45			10	20	30	Village of Roxana - Corner of Chaffer Street and 6th Street
VMP-46			10	20	30	WRR - North Property

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-1	5 ft	08/25/10	51.9%	0.0%		67.0%	2.1%	0.0	0.0	2.0	0.0	0.0	14.2	0.2	4.0	1.2	19.6	N/A
		11/17/10	52.8%	2.3%		58.0%	5.7%	0.2	0.6	5.0	0.0	0.0	19.4	0.1	2.0	1.3	20.1	N/A
		02/04/11	51.2%	0.0%	N/A	60.8%	2.7%	275	66.0	0.0	0.0	11.0	2.6	2.2	44.0	9.1	2.2	N/A
		04/12/11	62.0%	0.0%	N/A	74.5%	2.5%	0.0	1.0	0.0	0.0	0.0	17.9	0.0	0.0	1.9	18.1	N/A
		08/01/11	53.9%	0.0%	N/A	59.5%	0.0%	132	8.8	0.1	2.0	0.0	9.2	0.1	0.0	8.9	12.0	N/A
		11/03/11	50.3%	0.0%	N/A	52.7%	0.0%	27400	216.5	0.0	0.0	42.0	6.5	43.1	OVR	11.6	0.4	N/A
		01/30/12	53.5%	0.0%	N/A	70.1%	0.0%	16460	168.0	4.0	0.0	24.0	7.4	37.3	OVR	11.8	0.8	N/A
		04/13/12	59.9%	0.0%	N/A	74.1%	0.2%	0.0	1.01	NM	NM	NM	NM	0.0	0.0	2.4	18.9	N/A
		07/16/12	51.7%	0.0%	N/A	53.4%	2.4%	10	1.2	NM	NM	NM	NM	0.0	0.0	2.2	20.1	N/A
		10/11/12	57.4%	0.0%	N/A	55.9%	0.0%	2	1.0	NM	NM	NM	NM	0.0	0.0	0.4	19.7	N/A
	8.5ft	08/25/10	50.1%	3.3%		50.2%	4.3%	3561	2.6	0.0	0.0	2.0	0.0	0.3	6.0	7.0	9.0	N/A
		11/17/10	68.9%	3.2%		77.4%	1.3%	9	2.5	0.0	0.0	0.0	7.9	0.1	2.0	7.1	8.4	N/A
		02/04/11	57.3%	0.0%	N/A	54.5%	0.0%	720	101.0	23.0	0.0	20.0	0.6	7.0	OVR	11.1	0.5	N/A
		04/12/11	56.0%	0.0%	N/A	87.0%	0.0%	0.0	1.6	0.0	0.0	0.0	7.8	0.0	0.0	5.3	8.3	N/A
		08/01/11	53.2%	0.0%	N/A	59.8%	0.0%	51600	114.9	7.0	1.0	90.0	21.6	29.7	OVR	13.1	0.4	N/A
		11/03/11	52.9%	0.0%	N/A	53.5%	0.0%	42200	206.6	0.0	0.0	60.0	4.8	OVR	OVR	12.1	0.4	N/A
		01/30/12	69.2%	0.0%	4.2%	52.5%	0.0%	17840	195.7	2.0	0.0	30.0	5.5	43.7	OVR	11.9	0.6	N/A
		04/16/12	62.1%	0.0%	N/A	52.6%	0.2%	0.0	0.5	NM	NM	NM	NM	0.0	0.0	4.2	17.1	N/A
		07/16/12	53%	0.0%	N/A	55.0%	0.1%	4	1.4	NM	NM	NM	NM	0.3	0.0	3.8	16.7	N/A
		10/11/12	55.2%	0.0%	N/A	46.3%	0.0%	2	0.8	NM	NM	NM	NM	0.0	0.0	1.7	18.2	N/A
	23.5 ft	08/30/10	50.8%	2.3%		47.3%	3.1%	1990000	0.0	190.0	7.0	OVR	0.0	0.0	OVR	7.8	0.2	N/A
		11/18/10	59.2%	0.1%		65.4%	4.3%	39	0.5	0.0	0.0	0.0	16.4	0.2	4.0	2.9	17.1	N/A
		02/04/11	50.2%	0.0%	N/A	40.2%	0.0%	1260000	69.5	45.0	3.0	OVR	0.5	OVR	OVR	8.6	0.4	N/A
		04/12/11	52.0%	0.0%	N/A	62.0%	0.0%	42500	78.3	8.0	1.0	34.0	0.5	22.1	OVR	10.0	1.0	N/A
		08/01/11	54.7%	2.4%	OVR	59.5%	2.7%	442000	196.6	35.0	6.0	100.0	21.7	OVR	OVR	8.7	0.3	N/A
		11/03/11	62.6%	1.3%	OVR	50.1%	1.5%		144.1	0.0	1.0	OVR	4.8	OVR	OVR	10.6	0.3	N/A
		01/31/12	56.8%	1.4%	OVR	60.2%	1.4%	100000	107.0	0.0	2.0	OVR	4.0	OVR	OVR	11.4	0.3	N/A
		04/16/12	57.2%	0.0%	N/A	76.2%	0.0%	2340	79.4	NM	NM	NM	NM	2.1	43.0	10.8	2.5	N/A
		07/16/12	53.2%	1.3%	OVR	55.6%	1.4%	95000	49.0	NM	NM	NM	NM	OVR	OVR	8.2	4.1	N/A
		10/24/12[9]	50.0%	1.8%	N/A	49.3%	2.9%	187000	36.67	NM	NM	NM	NM	OVR	OVR	4.0	12.7	N/A
	38.5 ft	08/30/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/17/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/12/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/01/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/03/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/27/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/16/12[10]	56.8%	2.9%	N/A	50.8%	11.1%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/31/12	63.1%	0.0%	N/A	54.7%	0.4%	4	1.3	NM	NM	NM	NM	0.0	0.0	1.8	14.0	N/A
		10/26/12	54.2%	1.0%	49.8	46.1%	2.5%	24700	100	NM	NM	NM	NM	40.4	OVR	0.9	19.5	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-2	5 ft	08/31/10	50.3%	0.0%		48.8%	0.5%	42780	98.9	24.0	1.0	35.0	0.0	63.9	OVR	11.4	0.2	N/A
		11/16/10	53.4%	0.1%		57.6%	0.1%	7729	231.0	10.0	0.0	OVR	0.3	OVR	OVR	12.1	1.0	N/A
		02/04/11	53.6%	0.0%	7.6%	56.8%	0.0%	1862	155.0	1.0	0.0	48.0	0.7	12.6	OVR	12.8	0.4	N/A
		04/13/11	52.3%	0.0%	N/A	54.0%	0.1%	353	0.4	0.0	0.0	0.0	15.2	0.0	0.0	4.0	16.3	N/A
		08/02/11	51.0%	0.0%	N/A	62.4%	0.0%	70700	397.4	57.0	2.0	17.0	0.0	99.9	OVR	11.7	0.4	N/A
		11/04/11	58.5%	0.0%	N/A	51.6%	0.0%		0.0	0.0	0.0	0.0	18.0	0.0	0.0	6.4	9.6	N/A
		01/25/12	65.2%	0.0%	N/A	62.9%	0.0%	2720	84.3	0.0	0.0	10.0	5.4	0.0	0.0	12.7	2.0	N/A
		4/25/12[9]	67.6%	0.0%	N/A	58.5%	0.1%	0.0	4.6	NM	NM	NM	NM	0.0	0.0	6.7	11.7	N/A
		07/16/12	53.1%	0.0%	N/A	66.7%	0.2%	6	1.2	NM	NM	NM	NM	0.1	0.0	1.3	20.1	N/A
		10/24/12[9]	52.5%	0.0%	N/A	50.6%	0.5%	2	1.0	NM	NM	NM	NM	0.0	0.0	0.3	20.2	N/A
	8.5 ft	08/31/10	59.3%	0.7%		46.7%	1.3%	1440000	48.8	48.0	2.0	OVR	0.0	99.9	OVR	0.1	0.0	N/A
		11/16/10	63.2%	0.0%		55.0%	0.2%	11900	180.0	28.0	0.0	OVR	0.6	OVR	OVR	11.4	0.8	N/A
		02/04/11	51.0%	0.0%	17.7%	64.0%	0.0%	4189	137.0	0.0	0.0	OVR	0.4	20.7	OVR	12.3	0.2	N/A
		04/13/11	53.2%	0.0%	N/A	61.0%	0.0%	42750	74.1	0.0	0.0	0.0	0.0	0.2	4.0	11.6	1.8	N/A
		08/02/11	53.1%	1.0%	>>>	53.8%	0.8%	148000	279.9	22.0	2.0	OVR	0.0	OVR	OVR	10.5	1.3	N/A
		11/04/11	54.1%	0.0%	N/A	52.4%	0.0%		23.9	0.0	0.0	0.0	12.2	0.0	0.0	11.0	3.1	N/A
		01/26/12	63.0%	0.0%	N/A	63.5%	0.0%	17000	136.5	0.0	0.0	9.0	15.3	0.0	0.0	12.6	0.9	N/A
		04/16/12	55.0%	0.0%	N/A	54.6%	0.6%	0.0	0.5	NM	NM	NM	NM	0.0	0.0	2.1	18.1	N/A
		07/16/12	50.5%	0.0%	N/A	63.2%	0.1%	5	1.5	NM	NM	NM	NM	0.0	0.0	5.9	16.0	N/A
		10/23/12	64.6%	0.0%	N/A	54.5%	0.1%	1	0.4	NM	NM	NM	NM	0.0	0.0	0.9	19.9	N/A
	22 ft	08/31/10	59.7%	2.5%		53.9%	2.5%	1160000	62.0	0.0	2.0	OVR	0.0	99.9	OVR	0.0	0.0	N/A
		11/16/10	52.8%	2.1%		51.0%	1.9%	13400	176.0	30.0	1.0	OVR	0.5	OVR	OVR	10.8	1.1	N/A
		02/04/11	52.4%	0.0%	34.7%	64.0%	0.0%	4189	137.0	0.0	0.0	OVR	0.4	39.9	OVR	12.3	0.4	N/A
		04/13/11	52.0%	0.0%	N/A	70.0%	0.5%	57210	94.0	0.0	0.0	77.0	0.0	18.9	OVR	10.8	0.3	N/A
		08/02/11	55.6%	1.0%	OVR	51.8%	1.4%	216000	211.4	59.0	2.0	OVR	0.0	OVR	OVR	9.9	0.7	N/A
		11/04/11	53.4%	0.0%	N/A	53.8%	0.0%		136.6	62.0	2.0	75.0	1.0	23.8	OVR	11.9	0.3	N/A
		01/25/12	54.2%	0.0%	N/A	76.2%	0.0%	38800	118.7	0.0	0.0	54.0	4.6	14.1	OVR	12.1	0.5	N/A
		04/27/12	52.4%	0.0%	N/A	63.1%	0.0%	1	0.8	NM	NM	NM	NM	0.0	0.0	6.5	15.1	NS
		07/16/12	51.0%	0.0%	N/A	62.1%	0.1%	8	1.6	NM	NM	NM	NM	1.0	0.0	5.7	14.7	N/A
		10/23/12	61.5%	0.0%	N/A	59.8%	0.1%	1	0.5	NM	NM	NM	NM	0.0	0.0	3.9	17.6	N/A
	42 ft	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/16/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/13/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/11/2012[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/16/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/24/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-3	5 ft	09/09/10	52.6%	2.8%		51.7%	5.6%	2280000	137.0	104.0	4.0	OVR	0.0	OVR	OVR	12.3	0.0	10.5%
		11/22/10	51.9%	4.1%		62.9%	7.1%	2	200.0	321.0	5.0	OVR	3.4	OVR	OVR	9.0	3.2	8.6%
		02/09/11	67.1%	1.1%	N/A	68.5%	11.0%	3370	134.0	35.0	0.0	19.0	2.3	73.4	OVR	4.9	3.0	25.0%
		04/14/11	57.8%	3.8%	OVR	56.1%	5.1%	2850000	180.0	15.7	13.0	18.1	0.0	OVR	OVR	9.4	1.5	N/A
		08/02/11	55.0%	0.0%	N/A	52.6%	0.0%	36.52	8.9	0.0	1.0	0.0	22.3	0.1	0.0	0.3	22.09	N/A
		11/04/11	55.2%	0.0%	N/A	54.9%	0.3%	0.0	0.4	0.0	0.0	0.0	16.6	0.0	0.0	3.3	16.4	N/A
		01/27/12	52.5%	0.0%	N/A	72.5%	0.0%	2350	38.6	0.0	0.0	6.0	13.7	3.5	70.0	2.2	13.6	N/A
		04/19/12	68.4%	0.0%	N/A	58.0%	0.0%	0.0	0.5	NM	NM	NM	NM	0.0	0.0	1.0	18.9	N/A
		7/27/12 [9]	54.3%	0.0%	N/A	64.6%	4.6%	8	0.5	NM	NM	NM	NM	0.0	0.0	0.5	18.2	N/A
		10/24/12[10]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10 ft	06/21/10	48.1%	0.0%		18.5%	0.2%		109.0	237.0	0.0	OVR	0.9			OVR		N/A
		09/10/10	59.1%	10.3%		58.0%	9.2%	OVR	10.9	511.0	15.0	OVR	0.0	OVR	OVR	9.7	0.0	10.1%
		09/20/10	51.1%	6.7%		44.3%	2.5%	OVR	142.0	0.0	10.0	OVR	0.3	OVR	OVR	9.0	1.3	8.1%
		11/22/10	57.0%	8.1%		61.3%	8.5%	78600	160.0	425.0	3.0	OVR	0.6	OVR	OVR	8.6	0.9	8.1%
		02/08/11	50.3%	0.0%	N/A	52.1%	0.0%	2700000	159.0	2.0	0.0	OVR	0.5	OVR	OVR	8.8	0.1	N/A
		04/13/11	52.0%	4.7%	OVR	73.0%	6.0%	5130000	119.0	300.0	9.0	OVR	0.0	OVR	OVR	7.3	0.7	N/A
		08/02/11	62.4%	0.0%	N/A	42.6%	0.0%	16900	164.2	7.0	1.0	14	0.0	3.5	73.0	15.8	0.8	N/A
		11/04/11	52.6%	0.0%	N/A	52.9%	0.0%	68	5.8	0.0	0.0	0.0	5.1	0.0	0.0	5.8	5.5	N/A
		01/27/12	55.4%	0.0%	N/A	65.2%	0.0%	385	17.4	0.0	0.0	0.0	10.3	0.2	4.0	3.6	10.7	N/A
		04/19/12	60.5%	0.0%	N/A	66.0%	0.0%	0.0	0.6	NM	NM	NM	NM	0.0	0.0	1.9	18.1	N/A
		07/23/12	53.7%	0.0%	N/A	41.2%	0.0%	11	1.7	N/A	N/A	N/A	N/A	0.0	0.0	1.9	19.0	N/A
		10/18/12	47.5%	0.0%	N/A	36.7%	0.0%	7	1.0	NM	NM	NM	NM	0.0	0.0	0.7	20.1	N/A
	22 ft	09/20/10	51.2%	4.6%		51.0%	4.6%	OVR	51.2	0.0	39.0	OVR	0.7	OVR	OVR	8.8	6.7	5.1%
		11/22/10	51.2%	9.5%		59.6%	10.1%	129200	153.0	691.0	17.0	OVR	0.5	OVR	OVR	7.8	1.0	9.8%
		02/08/11	51.2%	0.0%	N/A	40.5%	0.0%	5960000	145.0	244.0	15.0	OVR	0.4	OVR	OVR	8.2	0.4	N/A
		04/15/11	71.2%	7.0%	OVR	55.0%	8.1%	OVR	153.0	406.0	20.0	OVR	0.0	OVR	OVR	8.2	2.7	N/A
		08/06/11	72.2%	0.0%	N/A	59.9%	0.4%	10400	39.7	6.0	0.0	19.0	13.0	2.2	42.0	2.6	13.0	N/A
		11/04/11	53.2%	0.0%	N/A	53.8%	0.0%	76	3.7	0.0	0.0	0.0	18.2	0.0	0.0	1.8	18.2	N/A
		01/30/12	51.3%	0.0%	N/A	71.8%	0.0%	66	5.1	0.0	0.0	0.0	18.7	0.0	0.0	7.5	10.1	N/A
		04/19/12	64.2%	0.0%	N/A	61.0%	0.0%	20	0.6	NM	NM	NM	NM	0.0	0.0	1.3	20.7	N/A
		07/23/12	53.7%	0.0%	N/A	44.8%	0.0%	8	1.3	N/A	N/A	N/A	N/A	0.0	0.0	0.9	19.7	N/A
		10/18/12	49.9%	0.0%	N/A	35.0%	0.0%	2	0.4	NM	NM	NM	NM	0.0	0.0	3.2	18.0	N/A
	31.5 ft	09/09/10	57.8%	18.2%		37.6%	17.0%	OVR	14.9	1033.0	9.0	OVR	0.0	OVR	OVR	4.6	0.0	17.7%
		11/22/10	51.2%	16.3%		62.4%	16.0%	OVR	232.0	OVR	12.0	OVR	0.4	OVR	OVR	4.7	0.9	15.4%
		02/09/11	59.3%	0.0%	N/A	48.3%	12.4%	OVR	93.8	144.0	0.0	OVR	0.5	OVR	OVR	8.0	0.0	N/A
		04/14/11	57.0%	6.1%	OVR	89.0%	12.1%	OVR	199.0	214.0	8.6	20.0	0.0	OVR	OVR	5.3	1.3	N/A
		08/02/11	70.5%	14.0%	OVR	26.7%	15.9%	OVR	239.0	1000.0	8.0	OVR	0.0	OVR	OVR	4.3	0.7	N/A
		11/04/11	50.3%	7.5%	OVR	60.5%	6.9%	OVR	230.9	961.0	5.0	100.0	2.1	OVR	OVR	5.4	2.5	N/A
		01/27/12	53.5%	2.0%	OVR	87.2%	4.0%	815000	128.6	0.0	0.0	OVR	5.0	OVR	OVR	6.6	3.6	N/A
		04/19/12	69.1%	6.7%	OVR	63.0%	6.9%	OVR	106.0	NM	NM	NM	NM	OVR	OVR	6.7	0.3	N/A
		07/23/12	50.1%	0.0%	N/A	45.2%	0.0%	171000	75.9	N/A	N/A	N/A	N/A	OVR	OVR	8.0	2.8	N/A
		10/19/12	63.2%	0.0%	N/A	56.4%	0.2%	2400	51	NM	NM	NM	NM	0.6	12	2.9	17.4	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-3	39 ft	09/09/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/22/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/02/11	97.3%	86.2%	2.4%	92.1%	55.2%	0.0	2.2	2.0	0.0	3.0	0.0	0.7	25.0	0.0	1.8	N/A
		11/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/27/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/19/2012 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/23/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/19/12	52.6%	0.0%	N/A	52.8%	2.3%	684000	144	NM	NM	NM	NM	OVR	OVR	8.3	2.7	N/A
VMP-4	5 ft	08/25/10	50.1%	0.0%		46.6%	2.3%	0.0	26.7	305.0	7.0	OVR	0.8	99.8	OVR	0.0	0.2	N/A
		11/22/10	52.9%	5.1%		50.5%	5.2%	27800	165.0	376.0	11.0	OVR	0.6	OVR	OVR	13.7	0.8	5.1%
		02/14/11	52.3%	0.0%	N/A	42.7%	13.1%	1045	406.0	20.0	2.0	28.0	7.9	21.6	OVR	5.9	7.8	11.2%
		04/19/11	76.8%	0.0%	N/A	54.0%	0.0%	26	304.0	16.0	34.0	OVR	0.2	OVR	OVR	11.3	3.3	N/A
		08/03/11	52.3%	0.0%	N/A	52.3%	0.0%	99	39.5	2.0	0.0	0.0	4.0	0.0	0.0	11.0	8.07	N/A
		11/09/11	71.0%	0.0%	N/A	55.6%	0.2%		0.3	0.0	0.0	0.0	20.9	0.0	0.0	0.1	21.5	N/A
		01/30/12	54.2%	0.0%	N/A	64.5%	0.1%	1200	255.4	0.0	0.0	0.0	14.2	1.3	26.0	10.1	0.4	N/A
		4/25/2012[9]	61.2%	0.3%	N/A	58.9%	0.6%	0.0	2.2	NM	NM	NM	NM	0.0	0.0	0.5	20.4	N/A
		7/25/12 [9]	57.0%	0.0%	N/A	53.2%	0.5%	3	1.1	NM	NM	NM	NM	0.0	0.0	2.1	18.0	N/A
		10/18/12	61.4%	0.0%	N/A	41.3%	0.0%	1	0.5	NM	NM	NM	NM	0.0	0.0	0.9	20.1	N/A
	12 ft	08/25/10	57.4%	3.4%		54.0%	4.6%	0.0	77.8	452.0	25.0	OVR	0.0	99.8	OVR	13.5	0.2	N/A
		11/23/10	58.7%	3.3%		52.4%	3.0%	16900	112.0	40.0	0.0	OVR	0.7	OVR	OVR	13.6	1.4	2.5%
		02/14/11	50.4%	1.3%	OVR	44.8%	1.7%	6169	276.0	30.0	1.0	27.0	3.4	OVR	OVR	9.5	3.3	1.4%
		04/19/11	57.2%	2.5%	OVR	54.2%	4.7%	28	242.0	554.0	40.0	OVR	3.0	OVR	OVR	7.7	7.3	N/A
		08/03/11	71.2%	4.1%	OVR	48.9%	2.2%	113000	198	25.0	10.0	OVR	0.0	91.2	OVR	14.7	1.6	N/A
		11/09/11	63.5%	8.0%	2.2%	57.8%	3.0%		300.6	7.0	0.0	9.0	6.0	2.3	46.0	8.9	5.6	N/A
		01/30/12	56.0%	0.0%	N/A	67.7%	0.2%	8240	464.1	0.0	0.0	0.0	15.1	14.6	OVR	11.2	0.5	N/A
		04/13/12	56.4%	0.0%	N/A	60.3%	0.2%	4	0.75	NM	NM	NM	NM	0.0	0.0	2.6	17.5	N/A
		07/23/12	50.3%	0.8%	1.0%	67.7%	0.7%	5	1.3	NM	NM	NM	NM	0.0	0.0	2.7	16.3	N/A
		10/18/12	53.0%	0.0%	N/A	45.0%	0.5%	1	0.8	NM	NM	NM	NM	0.0	0.0	1.3	19.6	N/A
	23.5 ft	08/31/10	54.5%	12.7%		37.8%	14.3%	OVR	2.3	1006.0	70.0	OVR	0.0	OVR	OVR	5.7	0.7	12.7%
		11/23/10	59.9%	17.3%		62.2%	17.5%	150300	124.0	800.0	0.0	OVR	0.5	OVR	OVR	7.0	0.9	17.0%
		02/14/11	55.7%	15.1%	OVR	45.4%	14.6%	OVR	166.0	OVR	16.0	OVR	0.3	OVR	OVR	6.1	0.8	11.7%
		04/20/11	53.5%	3.8%	OVR	50.0%	6.7%	OVR	121.0	OVR	44.0	OVR	0.0	OVR	OVR	5.7	0.6	N/A
		08/06/11	56.0%	16.0%	OVR	61.6%	16.2%	OVR	238.0	OVR	11.0	100.0	0.1	OVR	OVR	5.1	0.4	N/A
		11/09/11	51.0%	4.5%	OVR	55.8%		OVR	309.0	280.0	34.0	OVR	1.6	OVR	OVR	6.7	1.6	N/A
		01/30/12	52.0%	2.2%	OVR	62.2%	2.3%	263000	202.4	4.0	5.0	OVR	6.2	OVR	OVR	7.9	0.8	N/A
		04/13/12	74.8%	0.0%	N/A	53.4%	0.1%	98300	560.0	NM	NM	NM	NM	OVR	OVR	10.8	0.8	N/A
		07/23/12	50.2%	0.0%	N/A	50.2%	0.0%	54500	305.0	NM	NM	NM	NM	OVR	OVR	11.8	0.2	N/A
		10/18/12	52.4%	0.0%	N/A	62.2%	0.0%	6890	618	NM	NM	NM	NM	20.6	OVR	8.9	12.7	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-4	39 ft	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/23/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/21/11	54.8%	11.3%	OVR	62.4%	1.4%	OVR	119.0	OVR	50.0	OVR	0.2	OVR	OVR	4.9	0.6	N/A
		08/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/30/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/13/12	56.6%	0.0%	N/A	50.5%	0.1%	195000	471.0	NM	NM	NM	NM	OVR	OVR	10.4	0.4	N/A
		07/23/12	62.7%	0.0%	N/A	59.8%	0.0%	74000	230.0	NM	NM	NM	NM	OVR	OVR	12.2	0.4	N/A
		10/18/12	51.5%	0.4%	OVR	52.5%	0.0%	82000	468	NM	NM	NM	NM	OVR	OVR	7.7	12.5	N/A
VMP-5	5 ft	09/09/10	63.6%	0.8%		61.5%	0.9%	79110	331.0	426.0	11.0	OVR	0.0	OVR	OVR	12.4	1.6	N/A
		11/22/10	55.8%	0.0%		36.0%	1.6%	11600	149.0	199.0	0.0	OVR	1.9	OVR	OVR	12.5	1.4	N/A
		02/16/11	65.3%	0.0%	N/A	58.1%	0.2%	2950	25.2	0.0	0.0	4.0	11.4	0.6	14.0	9.9	10.6	N/A
		04/21/11	54.2%	0.0%	N/A	56.4%	0.4%	0.0	0.3	0.0	0.0	0.0	18.5	0.0	0.0	7.5	19.0	N/A
		08/05/11	51.1%	0.0%	N/A	50.0%	0.0%	2760	74.8	7.0	0.0	6.0	1.2	0.8	17.0	15.3	1.0	N/A
		11/11/11	52.4%	0.0%	N/A	58.4%	0.0%	0.0	3.9	0.0	0.0	0.0	4.3	0.0	0.0	14.2	4.4	N/A
		01/30/12	50.5%	0.0%	N/A	39.8%	0.0%	4	0.7	10	0.0	0.0	11.6	0.0	0.0	8.4	11.4	N/A
		04/11/12	59.4%	0.0%	0.0%	60.2%	5.1%	1	1.3	NM	NM	NM	NM	0.0	0.0	0.4	19.7	N/A
		07/13/12	50.1%	0.0%	0.0%	61.4%	2.7%	4	0.5	NM	NM	NM	NM	0.0	0.0	0.4	20.1	N/A
		10/12/12[9]	53.1%	0.0%	N/A	40.2%	1.8%	2	0.9	NM	NM	NM	NM	0.0	0.0	0.2	20.7	N/A
	12.5 ft	09/09/10	54.6%	0.9%		53.1%	0.6%	1590000	276.0	244.0	14.0	OVR	0.0	OVR	OVR	14.3	0.0	N/A
		11/23/10	53.3%	0.0%		50.6%	0.0%	205	79.9	4.0	0.0	55.0	4.4	1.5	32.0	13.2	3.6	N/A
		02/16/11	60.2%	0.0%	N/A	60.2%	0.0%	2750	111.0	21.0	0.0	22.0	0.7	11.0	44.0	13.1	0.7	N/A
		04/21/11	59.0%	0.0%	N/A	51.1%	0.0%	0.0	0.7	0.0	0.0	0.0	9.5	0.0	0.0	8.3	10.3	N/A
		08/05/11	51.5%	0.0%	N/A	64.5%	1.6%	315000	128.5	400	4.0	100	0.1	OVR	OVR	13.1	0.1	N/A
		11/11/11	53.0%	0.0%	N/A	56.5%	0.0%	0.0	1.0	0.0	0.0	0.0	3.5	0.0	0.0	14.7	3.8	N/A
		01/30/12	51.3%	0.0%	N/A	43.6%	0.0%	3	0.5	4.0	0.0	0.0	11.0	0.0	0.0	8.5	11.0	N/A
		04/11/12	53.7%	0.1%	0.0%	55.5%	0.3%	1	0.9	NM	NM	NM	NM	0.0	0.0	0.7	20.9	N/A
		07/12/12	70.7%	0.0%	N/A	50.0%	0.0%	5	1.3	N/A	N/A	N/A	N/A	0.0	0.0	0.7	19.4	N/A
		10/11/12	61.5%	0.8%	N/A	36.1%	1.2%	2	0.7	NM	NM	NM	NM	0.0	0.0	0.2	20.2	N/A
	31 ft	09/09/10	48.0%	9.2%		46.2%	10.2%	OVR	0.0	875.0	21.0	OVR	0.0	OVR	OVR	9.4	0.0	7.1%
		11/23/10	53.6%	9.6%		50.0%	9.0%	87100	148.0	1500.0	0.0	OVR	0.7	OVR	OVR	9.6	0.9	9.0%
		02/16/11	50.9%	0.0%	N/A	55.4%	7.7%	45000	226.0	OVR	9.0	OVR	0.9	OVR	OVR	8.7	0.7	8.2%
		04/21/11	53.0%	8.7%	OVR	70.0%	5.8%	OVR	204.0	600.0	18.0	OVR	0.0	OVR	OVR	8.9	0.4	N/A
		08/05/11	84.0%	3.8%	N/A	70.0%	9.0%	OVR	215.8	OVR	10.0	100	0.1	OVR	OVR	8.8	0.2	N/A
		11/11/11	52.0%	0.0%	N/A	58.8%	0.0%	350000	200.5	66.0	32.0	OVR	0.5	OVR	OVR	9.3	0.9	N/A
		01/30/12	52.7%	1.5%	N/A	43.1%	1.2%	129000	391.3	697	17.0	0.0	0.2	OVR	OVR	11.2	0.3	N/A
		04/11/12	60.8%	0.0%	0.0%	77.6%	0.0%	261	28.0	NM	NM	NM	NM	0.0	1.0	12.6	0.0	N/A
		07/12/12	55.1%	0.0%	N/A	30.0%	0.0%	15	3.3	N/A	N/A	N/A	N/A	0.0	0.0	6.9	13.9	N/A
		10/11/12	87.6%	0.0%	N/A	48.9%	0.2%	4	1.5	NM	NM	NM	NM	0.0	0.0	4.1	17.4	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-5	40 ft	09/09/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/23/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/16/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/21/11	56.5%	5.7%	OVR	51.0%	5.3%	OVR	229.0	632.0	18.0	OVR	0.0	OVR	OVR	8.8	0.2	N/A
		08/05/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/11/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/30/12	51.8%	1.2%	OVR	52.7%	1.3%	81220	313.9	609.0	24.0	0.0	0.1	OVR	OVR	11.4	0.2	N/A
		04/11/12	52.9%	0.0%	0.3%	83.4%	0.0%	863	59.5	NM	NM	NM	NM	0.3	7.0	12.9	0.2	N/A
		07/12/12	51.6%	0.0%	N/A	47.2%	0.0%	137	7.0	N/A	N/A	N/A	N/A	0.0	1.0	6.7	14.4	N/A
		10/11/12	66.8%	0.0%	N/A	40.0%	0.7%	22	2.2	NM	NM	NM	NM	0.0	0.0	4.4	17.6	N/A
VMP-6	5 ft	09/08/10	59.3%	0.0%		56.4%	0.1%	35760	327.0	76.0	3.0	27.0	0.0	12.8	OVR	15.3	0.0	N/A
		11/16/10	50.8%	0.0%		58.0%	0.8%	4426	606.0	53.0	4.0	OVR	0.4	65.1	OVR	15.2	1.5	N/A
		02/07/11	50.2%	0.5%	N/A	54.6%	2.0%	271	0.7	0.0	0.0	0.0	16.9	0.0	1.0	2.3	19.3	N/A
		04/08/11	54.0%	0.2%	0.2%	64.0%	0.5%	5	0.2	0.0	0.0	0.0	14.1	0.1	2.0	4.4	14.1	N/A
		08/04/11	68.1%	0.0%	N/A	57.4%	19.4%	21	0.7	1.0	0.0	0.0	13.4	0.0	0.0	3.9	13.8	N/A
		11/09/11	51.8%	0.1%	0.0%	59.5%	2.7%	0.0	0.0	0.0	0.0	0.0	16.2	0.0	0.0	3.6	16.9	N/A
		01/31/12	59.9%	0.0%	N/A	63.2%	0.0%	0.0	1.7	0.0	0.0	0.0	10.2	0.0	0.0	10.5	8.5	N/A
		4/12/2012[9]	54.6%	0.0%	N/A	61.5%	0.4%	2	0.6	NM	NM	NM	NM	0.0	0.0	0.6	20.7	N/A
		07/16/12	50.4%	0.0%	N/A	45.6%	0.4%	6	1.6	N/A	N/A	N/A	N/A	0.0	0.0	0.5	20.2	N/A
		10/10/12	54.6%	0.0%	N/A	51.7%	3.9%	1	0.9	NM	NM	NM	NM	0.0	0.0	0.1	19.4	N/A
	10 ft	09/08/10	51.6%	0.5%		37.9%	0.7%	79370	356.0	138.0	6.0	50.0	0.0	38.3	OVR	14.8	0.0	N/A
		11/17/10	51.3%	0.0%		60.9%	0.9%	6	0.2	0.0	0.0	0.0	7.2	0.4	9.0	11.3	6.4	N/A
		02/07/11	51.2%	0.5%	N/A	45.3%	0.4%	98	0.6	0.0	0.0	0.0	7.9	0.1	1.0	10.0	8.6	N/A
		04/08/11	53.0%	0.0%	N/A	63.0%	0.0%	111	12.5	2.0	0.0	0.0	1.9	0.2	4.0	10.8	3.7	N/A
		08/04/11	50.1%	0.0%	N/A	53.8%	0.3%	34650	325.8	283.0	5.0	56.0	0.2	47.5	OVR	17.2	0.3	N/A
		11/09/11	54.8%	0.0%	N/A	52.6%	0.0%	0.35	0.3	0.0	0.0	0.0	7.9	0.0	0.0	10.1	7.9	N/A
		01/31/12	55.8%	0.0%	N/A	63.6%	0.0%	17100	304.6	2.0	0.0	21.0	3.6	9.3	OVR	14.8	0.6	N/A
		04/12/12	66.2%	0.0%	N/A	57.8%	0.1%	1	0.6	NM	NM	NM	NM	0.0	0.0	2.2	19.6	N/A
		07/16/12	61.8%	0.0%	N/A	45.7%	0.2%	5	1.5	N/A	N/A	N/A	N/A	0.0	0.0	1.9	19.3	N/A
		10/11/12	51.7%	0.0%	N/A	42.6%	0.4%	2	0.9	NM	NM	NM	NM	0.0	0.0	0.6	20.0	N/A
	31.5 ft	09/08/10	56.6%	2.7%		46.9%	2.6%	3210000	380.0	711.0	41.0	OVR	0.0	OVR	OVR	12.9	0.0	2.3%
		11/17/10	66.5%	1.5%		59.8%	1.9%	1	462.0	753.0	10.0	OVR	2.1	OVR	OVR	13.3	2.3	N/A
		02/07/11	51.3%	0.0%	N/A	38.0%	0.0%	60660	318.0	62.0	8.0	OVR	0.5	OVR	OVR	15.1	0.3	N/A
		04/11/11	53.4%	0.0%	N/A	68.5%	0.0%	10000	416.0	1211.0	76.0	OVR	0.0	OVR	OVR	13.2	0.6	N/A
		08/04/11	55.5%	1.5%	N/A	54.1%	1.9%	OVR	327.3	1387.0	33.0	100.0	0.3	OVR	OVR	14.5	0.3	N/A
		11/09/11	55.1%	0.0%	N/A	54.1%	0.0%	88200	281.8	411.0	29.0	OVR	0.0	OVR	OVR	13.7	0.4	N/A
		01/31/12	56.1%	0.1%	OVR	68.1%	0.2%	127000	312.7	61.0	6.0	72.0	1.6	OVR	OVR	13.9	0.4	N/A
		04/12/12	51.6%	0.0%	N/A	51.5%	0.0%	2950	375.0	NM	NM	NM	NM	2.8	57.0	12.4	0.2	N/A
		07/16/12	50.3%	0.0%	N/A	40.0%	0.0%	90	5.8	N/A	N/A	N/A	N/A	0.0	0.0	8.6	7.9	N/A
		10/11/12	51.3%	0.0%	N/A	44.0%	0.0%	21	1.7	NM	NM	NM	NM	0.0	0.0	5.7	12.3	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-6	39 ft	09/08/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/16/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/07/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/11/11	53.0%	0.0%	N/A	91.8%	0.0%	11300	420.0	1222.0	100.0	OVR	0.5	OVR	OVR	12.8	0.5	N/A
		08/04/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/09/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/31/12	51.9%	0.7%	OVR	68.2%	0.9%	146000	350.9	9.0	11.0	91.0	4.4	OVR	OVR	13.9	0.5	N/A
		04/12/12	54.3%	0.0%	N/A	60.1%	0.0%	4070	477.0	NM	NM	NM	NM	5.1	OVR	12.5	0.3	N/A
		07/16/12	51.4%	0.0%	N/A	55.6%	0.0%	138	7.3	N/A	N/A	N/A	N/A	0.0	0.0	10.4	4.8	N/A
		10/11/12	50.6%	0.0%	N/A	44.6%	0.0%	77	7.8	NM	NM	NM	NM	0.0	0.0	9.7	6.1	N/A
VMP-7	5ft	08/26/10	56.6%	1.7%		56.3%	1.5%	29	0.0	0.0	1.0	0.0	0.8	0.0	0.0	4.5	13.4	N/A
		11/19/10	50.2%	0.9%		66.7%	0.5%	61	4.5	5.0	0.0	10.0	2.9	0.2	2.0	15.3	2.6	N/A
		02/07/11	52.8%	0.0%	0.0%	45.0%	0.2%	291	0.3	0.0	0.0	0.0	16.5	0.0	0.0	3.6	17.7	N/A
		04/07/11	61.6%	0.0%	0.0%	53.8%	0.0%	34	0.1	0.0	0.0	0.0	12.6	0.0	0.0	6.6	12.8	N/A
		08/02/11	59.8%	0.2%	N/A	58.3%	0.5%	34750	198	269.0	0.0	23.0	5.0	16.6	OVR	14.8	0.4	N/A
		11/10/11	52.1%	0.0%	N/A	50.3%	0.0%	0.0	0.4	0.0	0.0	0.0	5.6	0.0	0.0	13.3	5.5	N/A
		01/31/12	51.7%	0.0%	N/A	56.0%	0.0%	0.0	0.4	0.0	0.0	0.0	5.0	0.0	0.0	11.0	5.1	N/A
		04/12/12	52.4%	0.0%	0.0%	86.9%	0.3%	1	0.07	NM	NM	NM	NM	0.0	0.0	0.4	20.9	N/A
		7/31/12 [9]	53.8%	0.0%	N/A	49.8%	2.7%	3	0.8	NM	NM	NM	NM	0.0	0.0	0.5	19.5	N/A
		10/10/12	68.2%	0.0%	N/A	45.9%	0.1%	1	0.6	NM	NM	NM	NM	0.0	0.0	0.5	21.4	N/A
	13.5 ft	08/26/10	50.8%	0.0%		56.2%	0.0%	5130	62.8	2.0	2.0	16.0	0.0	1.1	22.0	16.7	0.4	N/A
		11/19/10	53.8%	0.0%		51.0%	0.0%	2157	58.8	3.0	0.0	38.0	0.7	3.4	68.0	16.3	0.7	N/A
		02/07/11	54.2%	0.0%	0.0%	54.1%	0.0%	240	0.4	0.0	0.0	0.0	8.4	0.0	0.0	10.9	9.0	N/A
		04/07/11	57.5%	0.0%	0.0%	62.8%	0.0%	45	0.3	0.0	0.0	0.0	8.4	0.0	0.0	10.2	8.3	N/A
		08/02/11	56.0%	0.0%	N/A	68.5%	0.3%	31200	234.0	362.0	0.0	40	9.5	10.8	OVR	16.7	0.1	N/A
		11/10/11	62.1%	0.0%	N/A	66.2%	0.0%	0.0	0.8	0.0	0.0	0.0	2.2	0.0	0.0	16.0	2.2	N/A
		01/31/12	52.5%	0.0%	N/A	61.4%	0.0%	235	15.4	0.0	0.0	3.0	1.0	0.0	0.0	14.0	0.7	N/A
		04/12/12	59.5%	0.1%	0.0%	60.8%	0.2%	1	0.6	NM	NM	NM	NM	0.0	0.0	0.6	20.7	N/A
		07/20/12	51.0%	0.0%	N/A	54.0%	0.0%	5	2.0	NM	NM	NM	NM	0.0	0.0	1.6	19.4	N/A
		10/10/12	65.2%	0.0%	N/A	57.5%	0.0%	0.0	1.2	NM	NM	NM	NM	0.0	0.0	0.5	21.7	N/A
	29.5 ft	08/31/10	50.4%	0.9%		48.3%	0.8%	73090	234.0	187.0	10.0	0.0	0.0	57.1	OVR	15.0	0.3	N/A
		11/19/10	53.7%	0.0%		69.3%	0.0%	4264	120.0	32.0	1.0	OVR	0.5	19.0	OVR	15.9	0.8	N/A
		02/07/11	56.7%	0.0%	26.8%	56.2%	0.0%	17840	910.0	4.0	12.0	56.0	3.4	27.6	OVR	17.1	0.4	N/A
		04/07/11	59.2%	0.0%	19.8%	57.6%	0.0%	28300	430.0	2.0	5.0	25.0	0.4	23.4	OVR	15.1	0.2	N/A
		08/02/11	50.0%	0.5%	N/A	54.0%	0.6%	79000	307.0	66.0	1.0	57.0	4.9	68.2	OVR	14.5	0.2	N/A
		11/11/11	52.0%	0.0%	N/A	70.1%	0.0%	23400	409.7	0.0	8.0	16.0	0.4	29.9	OVR	16.3	0.8	N/A
		01/31/12	52.0%	0.0%	N/A	61.5%	0.0%	17800	347.4	0.0	2.0	28.0	9.8	16.0	OVR	16.0	0.2	N/A
		04/12/12	53.6%	0.0%	0.0%	56.2%	0.0%	25	5.3	NM	NM	NM	NM	0.0	0.0	9.2	11.3	N/A
		07/20/12	51.5%	0.0%	N/A	51.5%	0.0%	3	3.1	NM	NM	NM	NM	0.0	0.0	5.9	16.8	N/A
		10/10/12	63.0%	0.0%	N/A	40.1%	0.0%	2	1.0	NM	NM	NM	NM	0.0	0.0	4.8	17.8	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-7	38 ft	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/07/11	62.2%	0.1%	32.9%	51.0%	0.0%	21220	944.0	0.0	35.0	58.0	1.8	33.7	OVR	16.5	0.1	N/A
		04/07/11	76.5%	0.0%	25.1%	43.2%	0.0%	31250	448.0	8.0	6.0	35.0	0.5	25.9	OVR	14.9	0.4	N/A
		08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/11/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/31/12	51.6%	0.0%	N/A	60.5%	0.0%	20700	400.8	0.0	9.0	34.0	0.6	21.9	OVR	16.3	0.5	N/A
		04/12/12 [11]	54.7%	0.3%	0.0%	80.8%	0.4%	90	24.8	NM	NM	NM	NM	0.0	0.0	10.7	9.4	N/A
		04/25/12	53.5%	0.0%	N/A	64.1%	0.0%	31	11.6	NM	NM	NM	NM	0.2	5.0	6.4	14.4	N/A
		7/31/12 [10]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/11/12	66.3%	0.0%	N/A	42.0%	0.2%	2	0.8	NM	NM	NM	NM	0.0	0.0	1.5	20.5	N/A
VMP-8	5 ft	08/30/10	52.0%	0.0%		58.6%	0.1%	55	0.4	0.0	0.0	0.0	6.4	0.0	0.0	7.3	13.4	N/A
		11/18/10	62.8%	0.0%		65.5%	0.0%	617	2.6	4.0	0.0	5.0	14.1	0.2	4.0	2.6	19.4	N/A
		02/10/11	51.2%	0.0%	0.0%	40.5%	0.0%	153	0.0	1.0	0.0	0.0	14.8	0.0	0.0	4.7	15.0	N/A
		04/07/11	53.0%	0.0%	N/A	82.0%	0.3%		0.3	0.0	0.0	0.0	18.5	0.0	0.0	3.0	19.0	N/A
		07/27/11	61.7%	0.0%	N/A	50.8%	0.0%	0.0	5.1	0.0	0.0	0.0	9.4	0.0	0.0	8.9	12.9	N/A
		11/03/11	67.1%	0.0%	N/A	60.0%	0.1%	4.35	0.2	0.0	0.0	0.0	18.6	0.0	0.0	1.2	16.4	N/A
		01/23/12	55.4%	0.0%	N/A	52.3%	2.4%	1	0.1	0.0	0.0	0.0	19.2	0.0	0.0	1.4	20.0	N/A
		04/10/12	51.4%	0.0%	N/A	60.3%	0.1%	2	0.5	NM	NM	NM	NM	0.0	0.0	2.8	17.3	N/A
		07/13/2012 [11]	51.7%	0.0%	N/A	51.3%	0.1%	5	5.1	N/A	N/A	N/A	N/A	0.0	0.0	3.6	18.1	N/A
		07/31/12	58.2%	0.0%	N/A	50.7%	0.1%	3	0.6	N/A	N/A	N/A	N/A	0.0	0.0	3.4	18.2	N/A
		10/04/12	51.6%	0.0%	N/A	51.9%	0.1%	1	0.5	NM	NM	NM	NM	0.0	0.0	2.0	18.1	N/A
	9.5 ft	08/30/10	56.2%	0.0%		48.9%	0.0%	66	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.2	10.1	N/A
		11/18/10	63.7%	0.0%		100.0%	0.1%	27	2.1	4.0	0.0	7.0	12.2	0.3	6.0	9.6	12.5	N/A
		02/10/11	51.0%	0.0%	0.0%	61.0%	0.0%	103	0.0	0.0	0.0	0.0	12.5	0.0	0.0	9.0	11.6	N/A
		04/07/11	54.0%	0.0%	N/A	67.0%	0.0%		0.1	0.0	0.0	0.0	12.6	0.1	2.0	7.0	13.4	N/A
		07/27/11	53.5%	0.0%	N/A	53.8%	0.0%	0.0	4.1	5.0	0.0	0.0	11.0	0.0	0.0	6.1	14.4	N/A
		11/03/11	51.8%	0.0%	N/A	55.2%	0.0%	4	0.3	0.0	0.0	0.0	18.6	0.0	0.0	7.2	13.7	N/A
		01/23/12	63.0%	0.0%	N/A	49.0%	0.0%	0.0	0.5	0.0	0.0	0.0	14.6	0.0	0.0	6.7	15.3	N/A
		04/10/12	64.7%	0.0%	N/A	57.3%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	5.7	15.4	N/A
		07/13/12	51.6%	0.0%	N/A	50.0%	0.0%	4	3.9	N/A	N/A	N/A	N/A	0.0	0.0	6.0	15.5	N/A
		10/04/12	59.6%	0.0%	N/A	40.0%	0.0%	1	0.8	NM	NM	NM	NM	0.0	0.0	4.6	16.4	N/A
	23.5 ft	08/30/10	55.2%	0.0%		60.0%	0.0%	34	0.0	1.0	0.0	3.0	0.0	0.0	0.0	9.3	9.9	N/A
		11/19/10	57.8%	0.0%		59.8%	0.0%	4	1.6	0.0	0.0	6.0	10.5	0.0	0.0	10.1	11.0	N/A
		02/10/11	52.0%	0.0%	0.0%	69.3%	0.0%	112	0.0	0.0	0.0	0.0	11.5	0.0	0.0	10.1	11.7	N/A
		04/07/11	55.0%	0.0%	N/A	85.0%	0.0%		0.0	0.0	0.0	0.0	12.0	0.0	0.0	8.6	12.0	N/A
		07/27/11	55.7%	0.0%	N/A	56.3%	0.0%	0.0	3.1	2.0	0.0	0.0	8.2	0.1	2.0	8.9	11.3	N/A
		11/06/11	74.5%	0.0%	N/A	70.2%	0.0%		0.3	0.0	0.0	0.0	13.6	0.0	0.0	8.7	12.6	N/A
		01/23/12	54.0%	0.0%	N/A	91.5%	0.0%	1	0.5	0.0	0.0	0.0	13.7	0.0	0.0	8.1	14.0	N/A
		04/10/12	60.6%	0.0%	N/A	66.3%	0.1%	1	0.5	NM	NM	NM	NM	0.0	0.0	6.5	14.6	N/A
		07/13/12	57.2%	0.0%	N/A	40.0%	0.0%	5	4.7	NM	NM	NM	NM	0.0	0.0	6.3	14.6	N/A
		10/04/12	53.2%	0.0%	N/A	63.0%	0.0%	4	1.1	NM	NM	NM	NM	0.0	0.0	5.5	15.9	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-8	35.5 ft	08/30/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/10/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/07/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/27/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/23/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/10/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/13/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/4/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-9	5 ft	08/26/10	50.2%	0.0%		45.6%	0.0%	37	0.0	2.0	0.0	3.0	0.4	0.4	8.0	11.6	4.7	N/A
		11/19/10	66.3%	0.0%		65.7%	0.0%	4	2.1	1.0	0.0	0.0	20.1	0.1	1.0	0.8	20.1	N/A
		02/08/11	67.4%	0.0%	0.0%	51.0%	0.0%	352	0.0	0.0	0.0	0.0	19.2	0.0	0.0	1.8	19.1	N/A
		04/06/11	50.3%	0.0%	N/A	62.2%	0.0%	0.0	1.6	0.0	0.0	0.0	0.4	0.0	0.0	1.1	5.8	N/A
		08/02/11	52.5%	0.0%	N/A	55.6%	0.4%	7550	92.3	4.0	0.0	13.0	0.5	0.9	19.0	14.9	0.5	N/A
		11/04/11	53.8%	0.0%	N/A	53.8%	0.0%		0.5	0.0	0.0	0.0	18.4	0.0	0.0	3.8	16.7	N/A
		01/26/12	55.1%	0.0%	N/A	66.2%	0.0%	0.0	0.5	0.0	0.0	0.0	17.7	0.1	2.0	13.8	2.2	N/A
		04/11/12	55.6%	0.0%	N/A	50.5%	0.0%	1	0.2	NM	NM	NM	NM	0.0	0.0	0.6	20.2	N/A
		07/13/12	68.7%	0.0%	0.0%	59.9%	0.0%	3	0.4	NM	NM	NM	NM	0.0	0.0	0.6	19.7	N/A
		10/10/12	54.20%	0.0%	N/A	47.3%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	0.3	20.6	N/A
	11.5 ft	08/26/10	54.2%	0.0%		34.7%	0.3%	19620	36.7	8.0	0.0	42.0	0.0	3.2	64.0	13.7	0.5	N/A
		11/19/10	57.5%	0.0%		57.8%	0.0%	1714	23.6	74.0	0.0	21.0	0.9	1.7	35.0	15.8	0.8	N/A
		02/09/11	62.7%	0.0%	0.0%	50.9%	0.0%	31	0.4	3.0	0.0	0.0	3.1	0.0	1.0	14.8	3.4	N/A
		04/06/11	53.7%	0.0%	N/A	56.3%	0.0%	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	1.4	N/A
		08/02/11	58.6%	0.8%	5.6%	57.2%	0.9%	37600	68.9	41.0	0.0	0.0	0.2	6	OVR	13.4	0.3	N/A
		11/04/11	57.1%	0.0%	N/A	51.7%	0.0%		0.7	0.0	0.0	0.0	14.9	0.0	0.0	10.0	9.8	N/A
		01/26/12	54.0%	0.4%	N/A	72.5%	0.0%	0.0	0.6	0.0	0.0	0.0	14.6	0.0	1.0	14.4	1.5	N/A
		04/11/12	55.4%	0.0%	N/A	50.5%	0.1%	1	0.2	NM	NM	NM	NM	0.0	0.0	1.4	19.6	N/A
		07/13/12	72.4%	0.4%	0.0%	60.1%	0.9%	3	0.2	NM	NM	NM	NM	0.0	0.0	1.2	19.4	N/A
		10/10/12	46.6%	0.0%	N/A	40.6%	0.5%	2	3.2	NM	NM	NM	NM	0.0	0.0	0.6	20.6	N/A
	25.5 ft	08/26/10	50.2%	0.4%		47.6%	1.0%	46560	153.0	32.0	12.0	Neg	0.0	19.4	388.0	13.8	0.0	N/A
		11/19/10	51.0%	0.0%		55.8%	0.2%	3594	66.6	232.0	8.0	73.0	0.5	6.2	OVR	15.4	0.4	N/A
		02/09/11	64.9%	0.0%	N/A	40.5%	0.0%	7530	103.0	4.0	5.0	44.0	0.7	3.0	53.0	18.7	0.7	N/A
		04/08/11	54.0%	0.0%	N/A	80.0%	0.0%		45.0	0.0	2.0	14.0	0.0	1.5	31.0	15.8	0.6	N/A
		08/02/11	56.1%	0.3%	N/A	58.1%	0.5%	46300	87.2	76.0	13.0	74.0	0.3	11.7	OVR	12.8	0.4	N/A
		11/04/11	60.7%	0.0%	N/A	50.2%	0.0%		165.8	0.0	3.0	22.0	0.8	2.0	40.0	15.5	0.2	N/A
		01/26/12	54.5%	0.0%	N/A	67.1%	0.0%	5200	62.3	2.0	0.0	9.0	10.0	0.9	18.0	15.7	0.7	N/A
		04/11/12	61.0%	0.0%	N/A	60.1%	0.3%	1	0.3	NM	NM	NM	NM	0.0	0.0	3.8	18.0	N/A
		07/13/12	53.2%	0.0%	0.0%	59.6%	0.1%	4	0.6	NM	NM	NM	NM	0.0	0.0	2.6	18.7	N/A
		10/10/12	53.5%	0.0%	N/A	43.5%	0.0%	0.0	0.7	NM	NM	NM	NM	0.0	0.0	1.9	19.7	N/A

TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-9	38.5 ft	08/26/10	62.5%	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/09/11	50.9%	0.0%	N/A	50.0%	0.0%	10650	226.0	2.0	3.0	38.0	0.6	6.3	OVR	19.4	0.3	N/A
		04/08/11	52.0%	0.0%	N/A	55.0%	0.0%		169.0	0.0	7.0	20.0	0.0	3.6	81.0	17.9	0.3	N/A
		08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/26/12	51.5%	0.0%	N/A	61.9%	0.0%	5900	202.1	0.0	2.0	10.0	7.4	1.5	31.0	16.0	0.4	N/A
		04/11/12	50.5%	0.0%	N/A	51.4%	0.0%	3	1.1	NM	NM	NM	NM	0.0	0.0	8.9	13.1	N/A
		07/13/12	69.1%	0.0%	0.0%	45.1%	0.3%	5	0.7	NM	NM	NM	NM	0.0	0.0	4.9	16.2	N/A
		10/10/12	55.4%	0.0%	N/A	46.7%	0.0%	95	14.35	NM	NM	NM	NM	0.0	0.0	6.4	14.0	N/A
VMP-10	5 ft	09/07/10	60.2%	0.0%		35.8%	0.0%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	6.4	14.0	N/A
		11/18/10	56.5%	0.0%		52.4%	0.0%	27	0.5	0.0	0.0	0.0	17.7	0.0	1.0	3.7	18.4	N/A
		02/10/11	50.5%	0.0%	N/A	44.0%	0.0%	213	0.4	0.0	0.0	0.0	16.2	0.0	0.0	4.5	17.8	N/A
		04/05/11	62.6%	0.0%	N/A	62.7%	0.1%	29	3.2	0.0	0.0	0.0	19.0	0.0	0.0	0.9	19.8	N/A
		07/29/11	57.7%	0.0%	N/A	48.4%	0.0%	0.0	1.0	1.0	0.0	0.0	16.0	0.0	0.0	4.4	17.4	N/A
		11/04/11	56.0%	0.0%	N/A	52.0%	0.0%		0.6	0.0	0.0	0.0	18.7	0.0	0.0	3.1	17	N/A
		01/25/12	76.6%	0.0%	N/A	63.1%	0.4%	1	1.7	0.0	0.0	0.0	20.9	0.0	0.0	0.0	20.9	N/A
		04/11/12	62.5%	0.0%	N/A	51.4%	0.1%	1	0.9	NM	NM	NM	NM	0.0	0.0	3.5	17.7	N/A
		07/13/12	50.8%	0.0%	N/A	47.1%	0.0%	3	0.2	NM	NM	NM	NM	0.0	0.0	2.2	18.3	N/A
		10/16/12	59.0%	0.0%	N/A	53.6%	0.0%	0.0	0.5	NM	NM	NM	NM	0.0	0.0	1.9	17.8	N/A
	10 ft	09/07/10	53.4%	0.0%		25.5%	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	11.9	N/A
		11/18/10	54.4%	0.0%		49.4%	0.1%	41	0.7	4.0	0.0	0.0	15.4	0.0	1.0	6.1	15.9	N/A
		02/11/11	54.5%	0.0%	N/A	65.5%	0.0%	67	0.1	0.0	0.0	0.0	14.9	0.0	0.0	5.5	14.7	N/A
		04/06/11	55.7%	0.0%	N/A	59.4%	0.1%	39	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	19.6	N/A
		07/29/11	52.8%	0.0%	N/A	49.8%	0.2%	0.0	2.8	1.0	0.0	0.0	12.3	0.0	0.0	6.0	15.3	N/A
		11/04/11	57.8%	0.0%	N/A	60.0%	0.0%		0.7	0.0	0.0	0.0	17.6	0.0	0.0	4.4	15.8	N/A
		01/25/12	53.2%	0.0%	N/A	36.0%	0.0%	2	1.8	0.0	0.0	0.0	20.9	0.0	0.0	4.1	16.3	N/A
		04/11/12	55.4%	0.0%	N/A	56.5%	0.0%	1	0.8	NM	NM	NM	NM	0.0	0.0	4.4	16.4	N/A
		07/13/12	50.4%	0.0%	N/A	40.7%	0.0%	4	0.8	NM	NM	NM	NM	0.0	0.0	3.2	17.2	N/A
		10/16/12	53.6%	0.0%	N/A	35.8%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	2.4	17.2	N/A
	20 ft	09/07/10	51.8%	0.0%		32.9%	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	9.4	N/A
		11/18/10	58.1%	0.0%		41.0%	0.0%	86	0.7	4.0	0.0	0.0	13.2	0.0	0.0	9.1	13.2	N/A
		02/11/11	52.6%	0.0%	N/A	55.8%	0.4%	52	0.3	0.0	0.0	0.0	12.9	0.0	0.0	7.4	13.1	N/A
		04/06/11	53.5%	0.0%	N/A	54.7%	0.2%	50	0.6	0.0	0.0	0.0	17.7	0.0	0.0	2.7	17.6	N/A
		07/29/11	62.7%	0.0%	N/A	45.9%	0.4%	0.0	3.3	2.0	0.0	0.0	9.7	0.0	0.0	7.3	13.2	N/A
		11/04/11	62.1%	0.0%	N/A	63.8%	0.0%		0.6	0.0	0.0	0.0	16.0	0.0	0.0	6.2	14.2	N/A
		01/25/12	57.2%	0.0%	N/A	58.1%	0.0%	2	0.0	0.0	0.0	0.0	14.1	0.0	0.0	6.2	14.4	N/A
		04/11/12	56.2%	0.0%	N/A	50.5%	0.1%	1	1.1	NM	NM	NM	NM	0.0	0.0	5.5	14.6	N/A
		07/16/12	50.6%	0.0%	N/A	46.6%	0.0%	2	0.8	NM	NM	NM	NM	0.0	0.0	5.2	15.9	N/A
		10/16/12	57.6%	0.0%	N/A	39.7%	0.0%	0.0	0.5	NM	NM	NM	NM	0.0	0.0	4.2	15.4	N/A

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-10	30 ft	09/07/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/18/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/11/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/29/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/25/12	71.3%	0.2%	N/A	58.9%	0.2%	21	1.7	0.0	0.0	0.0	10.2	0.0	0.0	0.1	11.8	N/A
		04/11/12	51.0%	0.0%	N/A	55.7%	0.0%	7	0.9	NM	NM	NM	NM	0.0	0.0	6.5	13.1	N/A
		07/16/12	55.3%	0.0%	N/A	50.2%	0.0%	3	0.8	NM	NM	NM	NM	0.0	0.0	6.1	14.5	N/A
		10/16/12	55.8%	0.0%	N/A	35.0%	0.4%	1	0.7	NM	NM	NM	NM	0.0	0.0	6.1	13.1	N/A
VMP-11	5 ft	09/07/10	57.9%	0.0%		44.3%	0.0%	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.0	9.9	10.3	N/A
		11/22/10	56.5%	0.0%		75.0%	0.0%	7	1.3	5.0	0.0	0.0	8.6	0.0	0.0	11.0	8.2	N/A
		02/11/11	52.9%	0.0%	N/A	45.9%	0.0%	13	0.8	0.0	0.0	0.0	9.4	0.0	0.0	9.5	9.9	N/A
		04/06/11	55.3%	0.0%	0.0%	48.9%	0.0%	3	0.7	0.0	0.0	0.0	10.6	0.0	0.0	8.5	10.5	N/A
		08/07/11	68.2%	0.0%	N/A	47.5%	0.0%	0.0	4.3	0.0	0.0	0.0	13.6	0.0	0.0	7.5	13.1	N/A
		11/11/11	53.2%	0.0%	N/A	67.0%	0.0%	0.0	1.1	0.0	0.0	0.0	7.5	0.0	0.0	11.1	8.0	N/A
		01/26/12	75.8%	0.0%	N/A	75.8%	0.0%	0.0	0.7	0.0	0.0	0.0	7.2	0.0	0.0	10.7	7.2	N/A
		04/19/12	82.4%	0.0%	0.0%	62.7%	0.0%	0.0	2.6	NM	NM	NM	NM	0.0	0.0	5.9	16.3	N/A
		07/19/12	54.0%	0.0%	0.0%	50.0%	0.0%	4	1.3	NM	NM	NM	NM	0.0	0.0	2.4	18.0	N/A
		10/16/12	52.7%	0.0%	N/A	45.6%	0.0%	2	0.4	N/A	N/A	N/A	N/A	0.0	0.0	5	14.6	N/A
	8 ft	09/08/10	52.3%	0.0%		37.6%	0.0%	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	11.0	N/A
		11/22/10	55.0%	0.0%		57.5%	0.0%	8	1.8	4.0	0.0	0.0	7.8	0.0	0.0	11.4	7.6	N/A
		02/11/11	54.3%	0.0%	N/A	43.7%	0.0%	28	0.9	0.0	0.0	0.0	8.6	0.0	0.0	10.1	9.0	N/A
		04/06/11	73.8%	0.0%	0.0%	70.0%	0.0%	3	0.8	0.0	0.0	0.0	10.5	0.0	0.0	8.3	10.1	N/A
		08/07/11	53.0%	0.0%	N/A	35.1%	0.0%	0.0	2.3	4.0	0.0	0.0	8.0	0.1	1.0	9.9	7.9	N/A
		11/14/11	54.2%	0.0%	N/A	62.1%	0.0%		0.4	0.0	0.0	0.0	3.7	0.0	0.0	10.5	8.2	N/A
		01/26/12	76.2%	0.0%	N/A	76.2%	0.0%	0.0	0.7	0.0	0.0	0.0	7.7	0.0	0.0	10.6	7.6	N/A
		04/19/12	50.5%	0.0%	0.0%	65.7%	0.1%	0.0	2.1	NM	NM	NM	NM	0.0	0.0	4.0	16.6	N/A
		07/20/12	50.4%	0.0%	N/A	40.0%	0.0%	33	1.4	N/A	N/A	N/A	N/A	0.0	0.1	4.0	16.7	N/A
		10/16/12	55.6%	0.0%	N/A	43.1%	0.0%	1	0.4	N/A	N/A	N/A	N/A	0.0	0.0	4.5	15.6	N/A
	29 ft	09/08/10	63.8%	0.0%		40.0%	0.0%	1400	97.3	1.0	0.0	5.0	0.0	0.0	1.0	14.7	0.0	N/A
		11/22/10	57.5%	0.0%		46.3%	0.0%	785	58.7	3.0	0.0	3.0	0.8	0.2	5.0	14.7	0.8	N/A
		02/14/11	55.5%	0.0%	N/A	36.9%	0.0%	7	0.0	0.0	0.0	0.0	1.6	0.0	0.0	15.3	1.7	N/A
		04/06/11	63.8%	0.0%	0.0%	66.0%	0.0%	4	1.1	0.0	0.0	0.0	0.2	0.1	2.0	14.6	0.8	N/A
		08/25/11	53.7%	0.0%	0.0%	47.5%	0.0%	0.0	0.3	2.0	0.0	0.0	0.9	0.0	0.0	14.0	0.5	N/A
		11/14/11	54.3%	0.0%	N/A	62.8%	0.0%		0.6	0.0	0.0	0.0	0.0	0.0	0.0	14.9	1.5	N/A
		01/26/12	52.8%	0.0%	N/A	52.1%	0.0%	0.0	0.5	0.0	0.0	0.0	1.3	0.0	0.0	15.3	1.2	N/A
		04/19/12 [12]	60.7%	0.0%	0.0%	60.7%	0.1%	0.0	2.1	NM	NM	NM	NM	0.0	0.0	12.9	2.8	N/A
		04/27/12	54.8%	0.0%	N/A	51.1%	0.0%	0.0	0.7	NM	NM	NM	NM	0.0	0.0	11.9	7.1	N/A
		07/23/12	50.5%	0.0%	N/A	66.5%	0.0%	2	1.1	NM	NM	NM	NM	0.0	0.0	9.8	8.3	N/A
		10/16/12	50.1%	0.0%	N/A	41.3%	0.0%	1	0.7	NM	NM	NM	NM	0.0	0.0	7.5	12.4	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-11	38 ft	09/08/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/22/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/07/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/23/12	66.5%	0.0%	N/A	56.8%	0.0%	732	289.0	NM	NM	NM	NM	0.0	0.0	15.9	1.0	N/A
		07/23/12	51.0%	0.0%	N/A	58.5%	0.0%	400	112.0	NM	NM	NM	NM	0.0	0.0	15.9	0.3	N/A
		10/16/12	67.0%	0.0%	N/A	40.3%	0.0%	38	1.0	NM	NM	NM	NM	0.0	0.0	12.9	7.0	N/A
VMP-12	5 ft	09/03/10	48.7%	10.4%		45.7%	11.1%	OVR	22.5	145.0	23.0	OVR	0.0	OVR	OVR	14.5	0.7	10.1%
		12/03/10	55.3%	1.1%		57.0%	1.1%	4986	21.7	220.0	0.0	73.0	0.7	9.9	OVR	13.5	1.1	N/A
		02/15/11	62.7%	3.3%	80.1%	62.6%	2.5%	2630000	86.7	0.0	0.0	OVR	0.2	86.7	OVR	8.1	0.0	N/A
		04/19/11	52.0%	7.7%	OVR	59.0%	7.9%	70	71.8	9.0	11.0	OVR	0.0	OVR	OVR	7.7	0.4	N/A
		08/04/11	57.4%	8.2%	OVR	38.1%	5.1%	OVR	89.8	49.0	8.0	0.0	0.0	OVR	OVR	12.3	1.0	N/A
		11/16/11	78.1%	0.0%	N/A	61.5%	0.0%	20	8.9	0.0	0.0	0.0	14.0	0.0	0.0	8.2	16.3	N/A
		01/24/12	53.6%	0.6%	N/A	50.0%	1.8%	17	46.9	0.0	0.0	0.0	19.2	0.1	2.0	3.6	19.2	N/A
		04/19/12	54.2%	0.0%	N/A	52.8%	0.1%	3	3.2	NM	NM	NM	NM	0.0	0.0	5.1	12.8	N/A
		07/26/12	55.6%	0.0%	0.0%	79.6%	2.1%	6	0.4	NM	NM	NM	NM	0.0	0.0	0.1	20.1	N/A
		10/24/12	56.1%	0.0%	N/A	39.0%	0.1%	2	0.7	NM	NM	NM	NM	0.0	0.0	0.1	20.4	N/A
	11.5 ft	09/03/10	54.1%	9.6%		33.4%	10.1%	OVR	44.1	293.0	15.0	Off	0.0	OVR	OVR	15.2	0.6	11.4%
		12/03/10	67.1%	5.8%		58.6%	6.5%	50100	48.7	78.0	7.0	OVR	0.6	OVR	OVR	12.7	0.9	6.9%
		02/15/11	51.0%	5.1%	OVR	56.3%	5.4%	OVR	122.0	168.0	21.0	OVR	0.3	OVR	OVR	9.6	0.0	N/A
		04/19/11	51.0%	8.7%	OVR	58.3%	9.4%	81	78.0	50.0	19.0	OVR	0.0	OVR	OVR	9.5	0.2	N/A
		08/04/11	51.2%	5.2%	OVR	27.7%	8.0%	OVR	193.8	62.0	19.0	OVR	0.0	OVR	OVR	11.5	1.0	N/A
		11/16/11	71.5%	0.0%	N/A	56.5%	0.2%	27100	36.2	0.0	0.0	51.0	1.1	3.0	61.0	11.0	6.4	N/A
		01/24/12	53.1%	0.0%	N/A	46.5%	1.0%	79000	282.5	0.0	0.0	91.0	2.1	12.4	OVR	10.7	1.4	N/A
		04/19/12	70.1%	0.0%	N/A	50.8%	0.9%	46500	13.8	NM	NM	NM	NM	5.4	OVR	8.1	6.3	N/A
		7/26/2012[11]	58.3%	1.1%	N/A	50.2%	2.0%	NM	NM	NM	NM	NM	NM	0.0	0.0	0.3	20.3	N/A
		08/20/12	54.6%	0.0%	N/A	41.9%	0.2%	5	1.1	NM	NM	NM	NM	0.0	0.0	0.1	20.8	N/A
		10/26/12[9]	54.5%	0.0%	N/A	48.1%	0.1%	2	0.3	NM	NM	NM	NM	0.0	0.0	0.2	20.2	N/A
	25 ft	09/03/10	52.6%	11.6%		34.9%	10.6%	OVR	441.0	379.0	7.0	OVR	0.0	OVR	OVR	15.3	0.5	10.8%
		12/03/10	54.4%	8.8%		53.1%	9.1%	61100	64.7	134.0	2.0	OVR	0.6	OVR	OVR	13.9	0.6	9.5%
		02/15/11	54.6%	3.9%	OVR	72.1%	4.8%	OVR	242.0	248.0	9.0	OVR	0.0	OVR	OVR	13.6	0.0	N/A
		04/19/11	53.0%	8.8%	OVR	75.0%	9.3%	76	133.0	90.0	9.0	OVR	0.0	OVR	OVR	12.3	0.8	N/A
		08/04/11	92.6%	11.6%	OVR	31.3%	8.1%	OVR	244.6	4.0	11.0	OVR	0.0	OVR	OVR	11.8	0.9	N/A
		11/16/11	82.5%	11.2%	OVR	57.8%	0.4%	OVR	140.0	104.0	0.0	OVR	0.0	OVR	OVR	12.7	0.6	N/A
		01/24/12	57.0%	8.1%	OVR	47.9%	7.6%	848000	1525	0.0	0.0	OVR	3.7	OVR	OVR	12.7	0.3	N/A
		04/19/12	54.9%	5.1%	N/A	53.7%	9.0%	900000	48.5	NM	NM	NM	NM	OVR	OVR	10.2	0.8	N/A
		07/26/12	50.5%	0.6%	28.4%	53.2%	0.5%	46700	100.0	NM	NM	NM	NM	19.7	OVR	9.8	5.4	N/A
		10/25/12[12]	56.6%	0.0%	N/A	60.5%	0.0%	8350	130	NM	NM	NM	NM	3.5	70	13.3	1.3	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-12	39 ft	09/03/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/03/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/19/11	51.0%	12.0%	OVR	53.0%	11.2%	97	131.0	85.0	17.0	OVR	0.0	OVR	OVR	13.0	0.7	N/A
		08/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/24/12	50.5%	15.5%	OVR	36.1%	9.4%	OVR	1416.0	0.0	6.0	OVR	1.2	OVR	OVR	13.2	0.0	N/A
		04/19/12	65.5%	5.2%	N/A	60.9%	9.2%	OVR	62.0	NM	NM	NM	NM	OVR	OVR	11.5	0.7	N/A
		07/26/12	60.7%	4.2%	OVR	59.2%	5.3%	375000	1850.0	NM	NM	NM	NM	OVR	OVR	11.9	1.2	N/A
		10/24/12	52.7%	2.7%	OVR	42.4%	2.9%	179000	71.44	NM	NM	NM	NM	83.6	OVR	12.4	2.3	N/A
VMP-13	5 ft	09/13/10	56.7%	0.0%		46.7%	0.0%	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	9.0	N/A
		12/01/10	43.4%	0.1%		51.5%	0.0%	1	1.8	5.0	0.0	0.0	11.6	0.1	2.0	6.4	12.6	N/A
		02/18/11	50.9%	0.0%	N/A	50.9%	0.0%	0.0	1.0	0.0	0.0	0.0	14.8	0.0	0.0	3.3	15.8	N/A
		04/05/11	70.2%	0.0%	N/A	82.6%	0.0%	51	5.9	0.0	0.0	0.0	15.3	0.0	0.0	3.7	17.4	N/A
		08/09/11	57.9%	0.0%	N/A	44.0%	0.0%		7.0	2.0	0.0	0.0	4.0	0.0	1.0	11.2	4.7	N/A
		11/14/11	54.5%	0.0%	N/A	60.3%	0.0%		0.6	0.0	0.0	0.0	8.0	0.0	0.0	6.3	11.6	N/A
		01/27/12	53.8%	0.0%	N/A	57.7%	0.0%	0.0	0.8	0.0	0.0	0.0	12.3	0.0	0.0	5.6	13.0	N/A
		04/20/12	79.8%	0.0%	0.0%	51.2%	0.0%	0.0	0.2	NM	NM	NM	NM	0.0	0.0	3.7	17.4	N/A
		07/19/12	54.2%	0.0%	N/A	51.4%	0.0%	3	1.1	NM	NM	NM	NM	0.0	0.0	4.2	16.3	N/A
		10/09/12	60.7%	0.0%	N/A	45.5%	0.0%	2	1.0	NM	NM	NM	NM	0.0	0.0	2.9	19.2	N/A
	10.5 ft	09/13/10	53.2%	0.0%		30.3%	0.0%	1460	1.0	2.0	2.0	5.0	0.0	0.2	1.0	8.6	0.7	N/A
		12/01/10	41.2%	0.0%		42.7%	0.0%	1	2.2	2.0	0.0	0.0	5.1	0.0	1.0	10.4	5.0	N/A
		02/18/11	50.4%	0.0%	N/A	47.9%	0.0%	2550	192.0	0.0	0.0	16.0	1.7	0.1	16.0	6.8	10.6	N/A
		04/05/11	50.2%	0.0%	N/A	72.8%	0.0%	31	4.4	1.0	0.0	0.0	10.6	0.0	0.0	3.3	12.1	N/A
		08/09/11	58.5%	0.0%	N/A	49.9%	0.0%		46.0	31.0	0.0	11.0	0.5	0.7	15.0	12.4	1.3	N/A
		11/14/11	56.4%	0.0%	N/A	60.5%	0.0%		0.5	0.0	0.0	0.0	4.9	0.0	0.0	7.6	9.3	N/A
		01/27/12	63.5%	0.0%	N/A	60.1%	0.0%	0.0	0.5	0.0	0.0	0.0	9.8	0.0	0.0	7.1	10.1	N/A
		04/20/12	71.2%	0.0%	0.0%	72.3%	0.0%	0.0	0.4	NM	NM	NM	NM	0.0	0.0	4.7	14.7	N/A
		07/19/12	53.4%	0.0%	N/A	46.1%	0.0%	3	1.5	NM	NM	NM	NM	0.0	0.0	6.0	12.7	N/A
		10/09/12	58.9%	0.0%	N/A	40.8%	0.0%	1	1.7	NM	NM	NM	NM	0.0	0.0	4.2	17.2	N/A
	21.5 ft	09/13/10	56.7%	0.1%		27.9%	0.0%	35600	1869.0	7.0	0.0	30.0	0.0	2.4	49.0	12.2	0.0	N/A
		12/01/10	43.5%	0.2%		46.7%	0.3%	1928	255.0	2.0	0.0	26.0	0.6	2.1	43.0	13.4	0.6	N/A
		02/18/11	55.4%	0.0%	N/A	53.1%	0.0%	3050	372.0	0.0	0.0	21.0	1.4	1.8	37.0	12.7	0.6	N/A
		04/05/11	50.2%	0.0%	N/A	50.2%	0.0%	18220	OVR	0.0	0.0	17.0	4.4	0.0	34.0	0.1	10.4	N/A
		08/09/11	54.2%	0.0%	N/A	48.0%	0.0%		202.3	11.0	0.0	40.0	0.3	2.4	48.0	11.7	0.9	N/A
		11/14/11	56.8%	0.0%	N/A	64.7%	0.0%		293.5	0.0	0.0	20.0	0.0	1.2	24.0	11.8	0.8	N/A
		01/27/12	52.0%	0.0%	N/A	48.2%	0.0%	6600	217.6	0.0	0.0	14.0	0.5	0.6	12.0	12.5	0.3	N/A
		04/20/12	67.0%	0.0%	0.0%	68.0%	0.0%	1110	6.5	NM	NM	NM	NM	0.0	0.0	12.8	0.4	N/A
		07/19/12	47.6%	0.0%	N/A	53.2%	0.0%	69	3.0	NM	NM	NM	NM	0.0	0.0	13.8	1.3	N/A
		10/09/12	59.2%	0.0%	N/A	43.7%	0.0%	47	6.4	NM	NM	NM	NM	0.0	0.0	14.6	1.4	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-13	29.5 ft	09/13/10	NS	NS		NS	NS	NS	NS	0.0	NS	NS	NS	NS	NS	NS	NS	NS
		12/01/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/18/11	52.1%	0.0%	N/A	49.2%	0.0%	8300	OVR	64.0	2.0	8.0	1.0	1.5	25.0	3.5	16.3	N/A
		04/05/11	63.9%	0.0%	N/A	47.9%	0.0%	50220	OVR	1.0	0.0	22.0	3.4	0.0	55.0	0.0	19.8	N/A
		08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/30/12	51.7%	0.0%	N/A	91.8%	0.0%	12700	5964.0	4.0	3.0	0.0	0.4	1.1	23.0	12.6	0.6	N/A
		04/20/12	70.8%	0.0%	0.3%	61.8%	0.0%	8700	1450.0	NM	NM	NM	NM	0.3	7.0	12.1	1.2	N/A
		07/19/12	56.3%	0.0%	N/A	50.9%	0.0%	13100	1850.0	NM	NM	NM	NM	0.3	7.0	13.5	1.3	N/A
		10/09/12	72.8%	0.0%	N/A	41.7%	0.0%	4400	780	NM	NM	NM	NM	0.5	9	15.0	1.3	N/A
VMP-14	5 ft	09/10/10	53.6%	3.8%		51.4%	4.0%	2320000	1.6	0.0	0.0	OVR	0.0	17.9	OVR	20.1	0.0	3.2%
		12/01/10	42.6%	0.5%		33.5%	0.7%	3	1.6	2.0	0.0	0.0	12.7	0.1	2.0	2.7	13.5	N/A
		02/17/11	54.1%	0.0%	0.0%	68.1%	0.0%	155	1.0	3.0	0.0	3.0	2.9	0.2	3.0	2.4	2.6	N/A
		04/05/11	59.6%	0.0%	N/A	54.9%	0.2%	0	0.5	0.0	0.0	0.0	19.2	0.0	0.0	2.7	19.0	N/A
		08/08/11	59.0%	1.0%	N/A	61.5%	1.0%	49000	38	17	0.0	5.0	0.3	6.8	OVR	18.2	0.1	N/A
		11/14/11	61.1%	0.0%	N/A	62.7%	0.0%		0.9	0.0	0.0	0.0	12.7	0.0	0.0	8.2	15.1	N/A
		01/26/12	50.6%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/20/12	52.0%	0.0%	N/A	66.6%	0.0%	0	0.2	NM	NM	NM	NM	0.0	0.0	3.3	19.8	N/A
		07/23/12	52.0%	0.0%	N/A	70.2%	0.0%	2	2.0	N/A	N/A	N/A	N/A	0.0	0.0	9.0	9.1	N/A
		10/10/12	56.0%	0.0%	N/A	40.5%	0.8%	0.0	0.9	NM	NM	NM	NM	0.0	0.0	1.3	21.7	N/A
	11.5 ft	09/10/10	52.3%	7.0%		47.2%	7.3%	7410000	10.4	42.0	75.0	OVR	0.0	OVR	OVR	16.5	0.0	6.8%
		12/02/10	53.5%	0.0%		50.7%	2.0%	7494	1.1	251.0	10.0	5.0	0.6	18.3	OVR	4.6	0.5	N/A
		02/17/11	55.0%	0.0%	0.0%	80.0%	0.0%	86	95.8	4.0	0.0	4.0	3.6	0.5	10.0	3.8	3.7	N/A
		04/05/11	90.0%	0.0%	N/A	49.8%	0.0%	766	118.5	0.0	0.0	0.0	8.6	0.3	6.0	12.0	8.6	N/A
		08/08/11	57.0%	6.6%	OVR	59.0%	6.7%	253000	104.0	163	36.0	100	0.3	OVR	OVR	16.3	0.3	N/A
		11/15/11	75.8%	1.0%	OVR	60.1%	0.6%	42000	103.2	15.0	0.0	66.0	0.0	9.2	OVR	14.2	2.2	N/A
		01/26/12	68.4%	1.0%	N/A	55.1%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/23/12	55.0%	0.0%	N/A	59.3%	0.0%	0	0.6	NM	NM	NM	NM	0.0	0.0	4.9	9.6	N/A
		07/25/12	59.3%	0.0%	N/A	65.9%	0.0%	22900	18.3	N/A	N/A	N/A	N/A	4.8	96.0	16.2	0.6	N/A
		10/10/12	67.8%	0.0%	N/A	53.5%	0.0%	1	0.7	NM	NM	NM	NM	0.0	0.0	8.2	19.1	N/A
	20 ft	09/10/10	63.8%	7.8%		50.5%	7.7%	OVR	56.8	186.0	0.0	OVR	0.0	OVR	OVR	17.2	0.0	6.6%
		12/02/10	54.5%	6.2%		45.6%	6.6%	25400	264.0	148.0	0.0	OVR	0.5	OVR	OVR	19.2	0.5	6.1%
		02/18/11	53.0%	2.8%	OVR	53.1%	2.6%	58370	1282.0	305.0	4.0	OVR	1.6	OVR	OVR	16.8	0.4	N/A
		04/05/11	60.1%	1.2%	OVR	53.6%	2.2%	233000	856.7	71.0	2.0	OVR	0.3	OVR	OVR	16.5	0.3	N/A
		08/08/11	58.2%	8.2%	N/A	53.2%	6.6%	810000	351.0	402.0	3.0	100	0.3	OVR	OVR	15.4	0.2	N/A
		11/15/11	85.2%	4.5%	OVR	61.1%	3.8%	425000	297.0	240.0	0.0	OVR	0.0	OVR	OVR	17.1	1.3	N/A
		01/26/12	50.5%	3.2%	N/A	87.7%	3.2%	220000	1004.0	303.0	4.0	OVR	0.3	OVR	OVR	17.9	0.4	N/A
		04/20/12	56.6%	1.1%	84.2%	63.3%	1.3%	136000	1049.0	NM	NM	NM	NM	84.8	OVR	15.0	0.7	N/A
		07/25/12	63.7%	0.7%	83.8%	50.3%	1.0%	120000	365.0	N/A	N/A	N/A	N/A	83.5	OVR	15.8	0.8	N/A
		10/16/12	60.4%	1.2%	NM	35.4%	0.8%	110000	775	NM	NM	NM	NM	75.4	OVR	18.0	1.0	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-14	29 ft	09/10/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/01/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/18/11	54.0%	6.8%	86.0%	66.4%	2.5%	85560	1502.0	624.0	8.0	OVR	0.4	OVR	OVR	16.5	0.3	N/A
		04/05/11	58.1%	2.1%	OVR	48.8%	2.4%	276000	1420.0	100.0	5.0	OVR	0.2	OVR	OVR	15.7	0.3	N/A
		08/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/26/12	55.2%	3.1%	N/A	42.3%	2.5%	233000	935	391.0	3.0	OVR	0.3	OVR	OVR	17.4	0.5	N/A
		04/20/12	56.4%	1.0%	>>>	55.7%	1.1%	170000	1482.0	NM	NM	NM	NM	OVR	OVR	14.8	0.8	N/A
		07/25/12	58.0%	0.9%	83.5%	50.1%	0.8%	141000	500.0	N/A	N/A	N/A	N/A	83.8	OVR	15.2	0.9	N/A
		10/16/12	53.3%	1.0%	NM	47.7%	1.1%	103000	935	NM	NM	NM	NM	82.0	OVR	16.8	1.1	N/A
VMP-15	5 ft	09/14/10	64.4%	0.0%		49.9%	0.0%	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	17.0	0.3	N/A
		11/30/10	47.9%	0.3%		41.5%	0.5%	1058	29.6	1.0	0.0	22.0	1.5	1.9	38.0	15.2	1.4	N/A
		02/16/11	55.1%	0.0%	0.3%	63.7%	0.0%	214	50.2	2.0	0.0	4.0	3.6	0.5	9.0	11.0	3.9	N/A
		04/20/11	55.0%	0.0%	N/A	61.0%	0.0%	662	35.8	0.0	0.0	5.0	1.9	0.2	5.0	15.4	2.9	N/A
		08/08/11	64.0%	0.0%	N/A	63.9%	0.0%	0.0	2.4	3.0	0.0	0.0	1.4	0.0	0.0	18.1	1.2	N/A
		11/15/11	82.0%	0.0%	N/A	55.4%	0.0%	0.0	1.6	0.0	0.0	0.0	2.6	0.0	0.0	11.4	7.3	N/A
		02/01/12	55.0%	0.0%	N/A	70.9%	0.0%	0.0	1.4	0.0	0.0	0.0	9.9	0.0	0.0	9.7	10.2	N/A
		04/24/12	53.7%	0.0%	N/A	73.7%	0.0%	301	6.3	NM	NM	NM	NM	0.0	0.0	11.4	4.2	N/A
		07/25/12	50.7%	0.0%	N/A	45.0%	0.0%	2	1.5	NM	NM	NM	NM	0.0	0.0	11.9	10.0	N/A
		10/25/12	55.4%	0.0%	N/A	54.0%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	8.3	12.5	N/A
	21.5 ft	09/14/10	50.1%	3.9%		28.1%	3.6%	1960000	9.5	5.0	92.0	OVR	0.0	30.8	OVR	19.1	0.0	3.4%
		11/30/10	42.2%	2.2%		47.5%	2.8%	10700	26.1	0.0	8.0	OVR	0.5	17.8	OVR	19.2	0.5	N/A
		02/16/11	52.5%	0.7%	13.0%	47.9%	0.6%	14310	89.0	3.0	66.0	72.0	2.1	15.3	OVR	18.7	0.5	N/A
		04/20/11	52.3%	1.0%	19.5%	50.3%	1.5%	1320000	96.6	0.0	2.0	OVR	0.0	24.8	OVR	19.1	0.0	N/A
		08/08/11	52.5%	5.0%	N/A	50.8%	4.8%	280000	43.5	24.0	94.0	100.0	0.2	31	OVR	17.4	0.2	N/A
		11/15/11	56.2%	0.4%	6.5%	72.7%	0.6%	41500	106.2	3.0	0.0	15.0	0.0	6.9	OVR	16.5	0.7	N/A
		02/01/12	60.2%	0.0%	N/A	63.9%	0.1%	31200	143.9	0.0	0.0	44.0	2.0	6.3	OVR	18.1	0.5	N/A
		04/24/12	57.2%	0.0%	N/A	85.5%	0.0%	19500	57.5	NM	NM	NM	NM	1.8	36	17.1	0.6	N/A
		07/25/12	50.1%	0.0%	N/A	49.2%	0.0%	15900	50.0	NM	NM	NM	NM	2.5	53.0	15.7	1.8	N/A
		10/25/12	65.8%	0.0%	N/A	43.8%	0.0%	14700	41.25	NM	NM	NM	NM	1.9	37	3.2	5.9	N/A
	25.5 ft	09/14/10	50.3%	6.3%		30.9%	8.1%	11780	29.9	1.0	0.0	15.0	0.0	1.6	32.0	7.7	11.1	4.1%
		12/02/10	62.4%	0.6%		62.2%	9.2%	20	1.9	1.0	0.0	0.0	14.3	0.1	2.0	4.1	14.8	10.7%
		02/16/11	52.7%	4.1%	3.5%	55.7%	4.8%	1850	89.6	2.0	27.0	41.0	7.0	1.9	40.0	8.6	6.2	N/A
		04/20/11	52.0%	8.3%	2.0%	50.0%	5.9%	10000	17.6	0.0	0.0	10.0	10.7	3.0	21.0	5.2	9.9	N/A
		08/08/11	57.3%	4.3%	N/A	57.5%	8.6%	67.2	11.9	3.0	0.0	0.0	5.0	0.0	0.0	13.9	4.8	N/A
		11/15/11	59.2%	3.2%	0.6%	51.5%	5.8%		80.7	0.0	0.0	13	6.5	0.6	13.0	7.1	10.6	N/A
		02/01/12	62.5%	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/24/12 [10]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/31/12	55.9%	0.0%	0.2%	50.5%	0.0%	2450	25.5	NM	NM	NM	NM	0.2	4.0	3.2	18.8	N/A
		10/25/12	62.3%	0.4%	0.3	42.1%	1.2%	2030	22.01	NM	NM	NM	NM	0.4	7	5.2	13.5	N/A

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-15	29 ft	09/14/10	56.1%	10.1%		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/02/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/20/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/24/12[13]	52.1%	5.1%	0.3%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/31/12	54.6%	0.0%	0.2%	50.1%	0.1%	2300	29.5	NM	NM	NM	NM	0.2	5.0	3.5	18.5	N/A
		10/25/12	52.1%	0.1%	0.4	48.5%	1.6%	1340	23.00	NM	NM	NM	NM	0.3	6	4.1	14.1	N/A
VMP-16	5 ft	09/02/10	61.2%	15.1%		23.1%	12.1%	OVR	6.2	167.0	9.0	OVR	0.0	OVR	OVR	19.4	0.6	14.0%
		11/29/10	50.0%	15.0%		47.8%	12.7%	86300	29.4	13.0	0.0	OVR	0.6	OVR	OVR	18.1	1.5	12.6%
		02/15/11	52.6%	5.4%	OVR	75.3%	5.5%	OVR	119.0	31.0	2.0	OVR	2.1	OVR	OVR	14.3	0.0	N/A
		04/22/11	52.4%	11.8%	OVR	54.0%	12.6%	OVR	76.7	27.0	3.0	OVR	0.0	OVR	OVR	17.3	0.4	N/A
		08/05/11	52.3%	2.3%	3.0%	57.3%	4.9%	OVR	220.6	6.0	0.0	26.0	0.0	20.7	OVR	12.7	1.9	N/A
		11/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/25/12	54.1%	0.2%	OVR	51.0%	4.3%	375000	81.5	NM	NM	NM	NM	OVR	OVR	14.0	2.0	N/A
		07/30/12	57.6%	0.0%	N/A	53.2%	0.0%	46000	141.0	NM	NM	NM	NM	OVR	OVR	20.3	0.1	N/A
		10/25/12	52.8%	0.0%	20.4	50.4%	0.0%	20100	279	NM	NM	NM	NM	22.2	OVR	15.0	1.5	N/A
	13.5 ft	09/02/10	51.2%	13.6%		31.2%	13.6%	OVR	32.6	170.0	10.0	OVR	0.0	OVR	OVR	19.4	0.1	16.2%
		11/29/10	52.5%	14.6%		42.1%	16.0%	128300	32.8	15.0	4.0	OVR	0.7	OVR	OVR	18.6	0.8	16.4%
		02/16/11	36.1%	6.1%	OVR	73.4%	5.7%	2530000	92.3	66.0	4.0	OVR	0.3	OVR	OVR	14.3	0.2	N/A
		04/22/11	62.0%	14.0%	OVR	70.0%	11.4%	OVR	80.2	0.0	4.0	OVR	0.0	OVR	OVR	17.0	1.8	N/A
		08/05/11	67.8%	9.6%	1.0%	61.5%	6.6%	70800	32.1	33.0	1.0	25.0	0.0	32.4	OVR	13.9	2.0	N/A
		11/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/25/12	63.1%	8.9%	OVR	50.1%	10.1%	OVR	50.0	NM	NM	NM	NM	OVR	OVR	14.1	1.3	N/A
		07/30/12	64.0%	0.0%	N/A	53.5%	6.4%	666000	53.0	NM	NM	NM	NM	OVR	OVR	16.4	0.6	N/A
		10/25/12	51.7%	4.9%	OVR	48.8%	7.3%	544000	99	NM	NM	NM	NM	OVR	OVR	15.5	1.6	N/A
	19 ft	09/02/10	51.9%	11.4%		20.7%	16.8%	OVR	0.0	162.0	12.0	Off	0.0	OVR	OVR	18.5	0.0	15.6%
		11/29/10	56.3%	14.3%		49.3%	14.6%	126100	36.1	12.0	2.0	OVR	0.9	OVR	OVR	18.5	0.8	15.0%
		02/16/11	54.6%	5.1%	OVR	60.0%	4.8%	2640000	87.5	93.0	5.0	OVR	0.3	OVR	OVR	14.6	0.2	N/A
		04/27/11	51.3%	10.6%	OVR	67.3%	27.8%	4390000	111.0	3.0	0.0	OVR	1.6	OVR	OVR	11.7	1.8	N/A
		08/05/11	57.2%	7.7%	3.6%	41.6%	13.3%	1800	171.2	6.0	0.0	8.0	0.0	0.3	6.0	4.7	15.7	N/A
		11/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/25/12	65.0%	9.6%	OVR	58.5%	12.6%	OVR	53.42	NM	NM	NM	NM	OVR	OVR	14.3	0.7	N/A
		07/30/12	61.2%	0.0%	N/A	55.0%	3.9%	OVR	50.5	NM	NM	NM	NM	OVR	OVR	15.7	0.3	N/A
		10/25/12	52.3%	7.9%	OVR	68.4%	9.4%	583000	100	NM	NM	NM	NM	OVR	OVR	15.0	1.5	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-16	31 ft	09/03/10	50.2%	15.1%		41.2%	14.8%	131	1.3	2.0	0.0	36.0	2.4	0.0	0.0	0.3	15.5	14.6%
		11/29/10	51.5%	14.4%		35.2%	14.4%	83500	37.1	12.0	3.0	OVR	0.6	OVR	OVR	18.9	0.7	13.9%
		02/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/22/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/05/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		02/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/25/12	67.0%	10.5%	OVR	51.5%	11.9%	OVR	58.46	NM	NM	NM	NM	OVR	OVR	14.0	1.0	N/A
		07/30/12	55.4%	11.0%	N/A	50.3%	8.1%	OVR	48.9	NM	NM	NM	NM	OVR	OVR	15.6	0.0	N/A
		10/25/12	51.9%	9.5%	OVR	50.1%	9.5%	933000	83	NM	NM	NM	NM	OVR	OVR	15.5	1.6	N/A
VMP-17	5 ft	06/21/10	48.8%	0.0%		36.1%	0.0%		0.0	4.0	0.0	0.0	11.9			OVR		N/A
		09/01/10	64.5%	0.0%		55.2%	0.0%	0.0	0.0	2.0	0.0	0.0	0.0	0.6	12.0	8.1	11.0	N/A
		11/22/10	60.0%	0.0%		47.1%	0.0%	9	1.8	5.0	0.0	0.0	15.1	0.0	0.0	5.6	15.2	N/A
		02/07/11	51.7%	0.0%	0.0%	49.6%	0.0%	295	0.3	2.0	0.0	0.0	18.2	0.0	0.0	3.0	18.1	N/A
		04/06/11	62.5%	0.0%	0.1%	33.6%	0.0%	4	0.7	0.0	0.0	0.0	17.1	0.1	2.0	2.8	17.1	N/A
		08/01/11	52.8%	0.0%	N/A	31.8%	0.0%	0.0	5.0	3.0	0.0	0.0	10.2	0.0	0.0	6.6	13.5	N/A
		11/07/11	60.7%	0.0%	N/A	61.0%	0.0%		0	0.0	0.0	0.0	17.1	0.0	0.0	3.6	17.0	N/A
		01/26/12	53.4%	0.0%	N/A	52.8%	0.0%	2	1.1	1.0	0.0	0.0	17.2	0.0	0.0	3.0	17.5	N/A
		04/11/12	55.1%	0.0%	N/A	71.9%	0.1%	2	0.4	NM	NM	NM	NM	0.0	0.0	1.3	20.0	N/A
		07/11/12	81.2%	0.0%	0.0%	64.2%	0.0%	2	0.8	NM	NM	NM	NM	0.0	0.0	0.5	20.2	N/A
		10/09/12	52.8%	0.0%	N/A	41.4%	0.1%	2	1.4	NM	NM	NM	NM	0.0	0.0	0.6	20.4	N/A
VMP-18	8.5 ft	06/18/10	47.8%	0.0%	.	34.8%	0.0%		0.3	4.0	0.0	6.0	12.6			OVR		N/A
		09/07/10	63.7%	0.0%		63.7%	0.1%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	12.4	N/A
		11/19/10	55.2%	0.0%		67.2%	0.1%	4	3.1	4.0	0.0	9.0	10.4	0.3	6.0	9.9	10.6	N/A
		02/09/11	61.3%	0.0%	N/A	42.9%	0.0%	196	0.9	0.0	0.0	0.0	14.6	0.1	2.0	7.1	15.4	N/A
		04/07/11	58.1%	0.1%	N/A	61.3%	0.4%	14	1.0	0.0	0.0	0.0	13.4	0.0	0.0	6.4	13.1	N/A
		07/28/11	54.2%	0.0%	N/A	70.7%	0.0%	0.0	5.6	0.0	0.0	0.0	8.0	0.0	0.0	8.3	12.5	N/A
		11/07/11	51.4%	0.0%	N/A	52.8%	0.0%		0.0	0.0	0.0	0.0	13.3	0.0	0.0	8.2	13.3	N/A
		01/23/12	56.1%	0.0%	N/A	52.0%	0.0%	0.0	0.2	0.0	0.0	0.0	15.7	0.0	0.0	5.7	16.1	N/A
		04/10/12	67.9%	0.0%	N/A	57.9%	0.1%	2	0.6	NM	NM	NM	NM	0.0	0.0	5.4	17.4	N/A
		07/12/12	51.6%	0.0%	0.0%	48.1%	0.0%	4	1.5	NM	NM	NM	NM	0.0	0.0	4.6	18.4	N/A
		10/09/12	55.4%	0.0%	N/A	43.4%	0.0%	1	1.1	NM	NM	NM	NM	0.0	0.0	4.7	18.3	N/A
VMP-19	5 ft	06/18/10	46.8%	0.0%		11.8%	0.0%		0.3	10.0	0.0	0.0	12.6			OVR		N/A
		09/01/10	52.0%	0.0%		58.6%	1.1%	23	1.1	2.0	0.0	0.0	0.0	0.7	12.0	10.7	8.5	N/A
		11/15/10	57.4%	0.0%		63.4%	0.0%	0.0	0.0	0.0	0.0	8.0	11.0	0.0	0.0	8.6	4.4	N/A
		02/09/11	57.5%	0.3%	N/A	42.5%	0.4%	554	1.3	0.0	0.0	3.0	15.5	0.1	1.0	6.9	16.4	N/A
		04/07/11	52.3%	0.0%	N/A	68.0%	0.2%		0.2	0.0	0.0	0.0	15.0	0.2	3.0	5.3	15.4	N/A
		08/09/11	57.1%	0.0%	N/A	59.3%	0.3%		5.0	23.0	0.0	0.0	10.8	0.0	1.0	9.8	10.3	N/A
		11/08/11	75.8%	0.0%	N/A	54.7%	0.0%	0.0	0.3	0.0	0.0	0.0	14.3	0.0	0.0	6.5	14.3	N/A
		01/26/12	89.6%	0.0%	N/A	69.1%	0.0%	2	0.4	0.0	0.0	0.0	15.6	0.0	0.0	5.0	15.4	N/A
		04/10/12	59.5%	0.0%	N/A	72.7%	0.3%	2	0.6	NM	NM	NM	NM	0.0	0.0	2.2	19.8	N/A
		07/11/12	54.5%	0.0%	0.0%	60.0%	0.0%	4	1.3	NM	NM	NM	NM	0.0	0.0	0.8	20.3	N/A
		10/09/12	54.3%	0.0%	N/A	53.4%	0.1%	1	1.2	NM	NM	NM	NM	0.0	0.0	0.5	20.7	N/A

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-20	5 ft	03/14/11	53.4%	0.0%	N/A	60.9%	0.0%	0.0	2.1	10.0	0.0	0.0	7.0	0.0	0.0	10.3	7.6	N/A
		04/15/11	52.0%	0.0%	N/A	80.0%	0.0%		0.2	8.0	0.0	0.0	5.4	0.0	0.0	8.7	8.9	N/A
		07/25/11	52.4%	0.0%	N/A	51.0%	0.0%	0.0	0.4	0.0	0.0	0.0	3.5	0.0	0.0	14.9	6.9	N/A
		11/01/11	70.0%	0.0%	N/A	58.4%	0.0%		0.6	0.0	0.0	0.0	18.5	0.0	0.0	8.3	13.6	N/A
		01/23/12	58.4%	0.0%	N/A	56.8%	0.0%	1	0.1	0.0	0.0	0.0	17.2	0.0	0.0	4.5	16.9	N/A
		04/10/12	74.5%	0.0%	0.0%	76.6%	0.0%	2	0.6	NM	NM	NM	NM	0.0	0.0	6.1	16	N/A
		07/11/2012[11]	57.7%	0.0%	N/A	61.5%	0.2%	2	1.0	N/A	N/A	N/A	N/A	0.0	0.0	10.2	11.9	N/A
		07/31/12	51.4%	0.0%	N/A	68.4%	0.0%	13	1.1	NM	NM	NM	NM	0.0	0.0	10.5	11.2	N/A
		10/04/12	63.4%	0.0%	N/A	49.0%	0.0%	1	0.4	NM	NM	NM	NM	0.0	0.0	6.4	15.5	N/A
	10 ft	03/14/11	52.1%	0.0%	N/A	36.4%	0.0%	0.0	0.7	0.0	0.0	0.0	8.0	0.0	0.0	9.4	7.0	N/A
		04/15/11	56.0%	0.0%	N/A	94.3%	0.0%		5.0	2.0	0.0	0.0	5.4	0.0	0.0	8.4	8.5	N/A
		07/25/11	56.2%	0.0%	N/A	51.6%	0.0%	0.0	2.6	0.0	0.0	0.0	2.6	0.1	0.0	8.2	7.0	N/A
		11/01/11	68.9%	0.0%	N/A	51.1%	0.0%		0.6	0.0	0.0	0.0	15.4	0.0	0.0	8.6	9.6	N/A
		01/23/12	61.3%	0.0%	N/A	58.2%	0.0%	0.0	0.1	0.0	0.0	0.0	15.4	0.0	0.0	6.2	14.7	N/A
		04/10/12	61.8%	0.0%	0.0%	72.6%	0.0%	2	0.6	NM	NM	NM	NM	0.0	0.0	6.3	13.3	N/A
		07/11/12	52.4%	0.0%	N/A	60.4%	0.0%	1	1.0	N/A	N/A	N/A	N/A	0.0	0.0	7.8	13.2	N/A
		10/04/12	60.0%	0.0%	N/A	49.7%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	8.0	14	N/A
	25 ft	03/14/11	52.0%	0.0%	N/A	38.5%	0.0%	0.0	1.4	0.0	0.0	0.0	2.2	0.0	0.0	10.0	2.2	N/A
		04/15/11	52.0%	0.0%	N/A	60.4%	0.0%		2.5	3.0	0.0	3.0	0.0	0.1	1.0	10.5	2.1	N/A
		07/26/11	51.8%	0.1%	N/A	39.8%	0.0%	4200	113.9	4.0	0.0	7.0	0.0	1.0	20.0	8.6	1.0	N/A
		11/01/11	51.5%	0.0%	N/A	53.0%	0.0%		0.5	0.0	0.0	0.0	5.6	0.0	0.0	9.3	2.2	N/A
		01/23/12	63.8%	0.0%	N/A	56.2%	0.0%	0.0	0.2	0.0	0.0	0.0	7.3	0.0	0.0	0.1	21.0	N/A
		04/10/12	65.9%	0.0%	0.0%	80.4%	0.0%	3	0.5	NM	NM	NM	NM	0.0	0.0	7.4	8.3	N/A
		07/11/12	51.5%	0.0%	N/A	50.0%	0.0%	2	1.1	N/A	N/A	N/A	N/A	0.0	0.0	6.9	10.4	N/A
		10/04/12	63.8%	0.0%	N/A	39.0%	0.0%	2	0.9	NM	NM	NM	NM	0.1	2	6.8	13.1	N/A
	39.5 ft	03/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/26/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/01/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/23/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/10/2012 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/12/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/04/12	62.9%	0.0%	N/A	45.7%	0.0%	3000	184	NM	NM	NM	NM	1.2	26	9.4	2.2	N/A
VMP-21	5 ft	02/09/11	73.4%	0.0%	N/A	53.8%	1.9%	11780	273.0	0.0	0.0	30.0	9.1	43.4	OVR	6.5	9.2	N/A
		04/13/11	70.1%	0.0%	N/A	52.8%	0.2%	0.0	0.9	0.0	0.0	0.0	16.7	0.0	0.0	1.9	16.9	N/A
		07/25/11	55.4%	0.0%	N/A	49.7%	0.0%	0.0	3.7	0.0	0.0	0.0	2.	0.0	0.0	14.5	7.1	N/A
		11/01/11	77.6%	0.0%	N/A	47.8%	0.0%		0.6	0.0	0.0	0.0	18.3	0.0	0.0	4.5	17.1	N/A
		01/23/12	58.6%	0.0%	N/A	62.1%	0.0%	0.0	0.2	0.0	0.0	0.0	19.9	0.0	0.0	1.5	19.8	N/A
		4/9/2012 [11]	60.7%	0.7%	0.0%	74.0%	0.0%	1	0.8	NM	NM	NM	NM	0.0	0.0	2.8	16.3	N/A
		04/24/12	64.2%	0.0%	N/A	55.9%	0.2%	4	0.7	NM	NM	NM	NM	0.0	0.0	3.2	16.7	N/A
		07/10/12	55.2%	0.0%	N/A	50.0%	0.0%	2	0.6	N/A	N/A	N/A	N/A	0.0	0.0	8.3	13.3	N/A
		10/04/12	55.6%	0.0%	N/A	48.1%	0.0%	1	0.5	NM	NM	NM	NM	0.0	0.0	4.1	16.9	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-21	10 ft	02/10/11	64.5%	0.0%	N/A	59.5%	0.0%	8350	533.0	9.0	0.0	27.0	8.1	24.9	OVR	7.5	8.7	N/A
		04/13/11	65.2%	0.0%	N/A	57.7%	0.4%	263	40.2	0.0	0.0	0.0	8.2	0.1	3.0	6.7	8.3	N/A
		07/25/11	55.0%	0.0%	N/A	49.2%	0.3%	0	3.7	0.0	0.0	0.0	2.6	0.0	0.0	7.5	8.1	N/A
		11/01/11	60.7%	0.0%	N/A	50.1%	0.0%		0.6	0.0	0.0	0.0	14.8	0.0	0.0	8.0	12.7	N/A
		01/23/12	59.0%	0.0%	N/A	61.8%	0.1%	0.0	0.2	0.0	0.0	0.0	17.4	0.0	0.0	5.6	16.2	N/A
		04/09/12	61.5%	0.0%	0.0%	61.0%	0.0%	2	1.0	NM	NM	NM	NM	0.0	0.0	4.5	16.2	N/A
		07/10/12	71.4%	0.0%	N/A	58.6%	0.0%	3	0.7	N/A	N/A	N/A	N/A	0.0	0.0	6.1	13.1	N/A
		10/04/12	50.9%	0.0%	N/A	47.2%	0.1%	3	0.9	NM	NM	NM	NM	0.0	0.0	6.5	14.7	N/A
	25 ft	02/10/11	50.7%	0.0%	N/A	54.5%	0.0%	48340	227.0	35.0	1.0	OVR	0.4	OVR	OVR	7.0	0.2	N/A
		04/14/11	55.0%	0.0%	N/A	66.0%	0.2%	102000	459.0	61.0	11.0	18.0	0.0	OVR	OVR	6.3	0.5	N/A
		07/26/11	61.6%	0.0%	N/A	59.2%	0.4%	102000	398.5	138	3.0	73.0	0.0	OVR	OVR	6.2	0.1	N/A
		11/01/11	65.7%	0.0%	N/A	64.7%	0.0%		348.4	17.0	4.0	11	0.6	3.3	67.0	9.3	0.3	N/A
		01/24/12	67.5%	1.4%	0.0%	64.6%	5.3%	192	7.9	0.0	0.0	3.0	4.1	0.0	0.0	11.4	1.3	N/A
		04/09/12	51.3%	0.0%	0.0%	74.0%	0.0%	20	1.3	NM	NM	NM	NM	0.0	0.0	12.1	2.1	N/A
		07/11/12	55.0%	0.0%	N/A	58.6%	0.0%	2	1.4	N/A	N/A	N/A	N/A	0.0	0.0	10.7	5.3	N/A
		10/04/12	54.9%	0.0%	N/A	77.7%	0.0%	2	0.6	NM	NM	NM	NM	0.0	0.0	8.6	10.1	N/A
	33 ft	02/10/11	51.9%	0.0%	N/A	51.2%	0.4%	63640	434.0	42.0	7.0	OVR	0.4	OVR	OVR	4.9	5.2	N/A
		04/14/11	59.9%	0.0%	N/A	59.9%	0.9%	98820	385.0	8.0	15.0	36.0	0.0	OVR	OVR	6.0	0.8	N/A
		07/26/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/01/11	53.4%	0.0%	N/A	51.1%	0.0%		259.7	0.0	0.0	5.0	3.4	1.5	31.0	7.9	0.1	N/A
		01/24/12	55.5%	0.0%	0.0%	60.3%	0.0%	623	47.7	0.0	0.0	4.0	3.8	0.0	0.0	11.7	0.9	N/A
		4/9/2012 [12]	51.7%	0.0%	0.0%	67.1%	0.0%	619	16.95	NM	NM	NM	NM	0.0	1.0	12.4	0.5	N/A
		04/24/12	52.3%	0.0%	N/A	57.0%	0.0%	18	1.3	NM	NM	NM	NM	0.0	0.0	12.3	1.1	N/A
		07/11/12	51.6%	0.0%	N/A	50.2%	0.0%	6	1.7	N/A	N/A	N/A	N/A	0.0	0.0	12.0	2.6	N/A
		10/04/12	53.9%	0.0%	N/A	42.8%	0.1%	2	0.7	NM	NM	NM	NM	0.0	0.0	10.8	6.9	N/A
VMP-22	5 ft	02/11/11	53.4%	0.0%	0.1%	52.4%	0.0%	105	26.4	2.0	0.0	0.0	7.3	0.0	0.0	9.0	6.5	N/A
		04/18/11	57.0%	0.0%	N/A	58.1%	0.0%	0.0	0.0	0.0	0.0	0.0	7.9	0.1	0.0	6.8	11.1	N/A
		07/26/11	55.5%	0.0%	N/A	65.0%	0.0%	0.0	3.1	7.0	0.0	2.0	8.1	0.0	0.0	7.6	11.9	N/A
		11/01/11	69.4%	0.0%	N/A	50.7%	0.0%		0.7	0.0	0.0	0.0	19.4	0.0	0.0	2.7	18.4	N/A
		01/24/12	53.0%	0.0%	N/A	54.5%	0.0%	0.0	0.2	0.0	0.0	0.0	20.4	0.0	0.0	0.8	19.8	N/A
		04/09/12	60.6%	0.0%	N/A	50.8%	0.1%	2	1.0	NM	NM	NM	NM	0.0	0.0	1.1	19.6	N/A
		07/09/12	55.5%	0.0%	N/A	50.2%	0.0%	3	1.2	NM	NM	NM	NM	0.0	0.0	3.0	18.5	N/A
		10/03/12	90.7%	1.2%	N/A	53.7%	0.1%	1	0.3	NM	NM	NM	NM	0.0	0.0	1.4	19.5	N/A
	10 ft	02/11/11	52.1%	0.0%	0.1%	80.2%	0.0%	41	17.6	0.0	0.0	0.0	4.5	0.1	2.0	10.6	4.8	N/A
		04/18/11	51.0%	0.0%	N/A	49.5%	0.0%	0.0	0.0	0.0	0.0	0.0	6.4	0.0	1.8	8.4	6.8	N/A
		07/26/11	54.5%	0.0%	N/A	39.2%	0.0%	3	2.7	8.0	0.0	0.0	0.0	0.0	0.0	10.5	4.5	N/A
		11/01/11	62.2%	0.0%	N/A	56.5%	0.0%	0.0	0.6	0.0	0.0	0.0	18.5	0.0	0.0	5.9	15	N/A
		01/24/12	54.2%	0.0%	N/A	70.5%	0.0%	0.0	0.1	0.0	0.0	0.0	19.3	0.0	0.0	2.4	19.1	N/A
		04/09/12	56.0%	0.0%	N/A	51.7%	0.0%	0.0	1.0	NM	NM	NM	NM	0.0	0.0	1.6	18.9	N/A
		07/09/12	60.0%	0.0%	N/A	47.8%	0.0%	2	0.9	NM	NM	NM	NM	0.0	0.0	3.2	17.7	N/A
		10/03/12	64.3%	0.0%	N/A	54.0%	0.3%	2	0.5	NM	NM	NM	NM	0.0	0.0	1.6	19.3	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-22	18 ft	02/11/11	52.0%	0.0%	30.2%	44.3%	0.0%	17430	326.0	2.0	1.0	54.0	0.9	31.5	OVR	12.0	0.0	N/A
		04/18/11	51.0%	0.0%	N/A	44.3%	0.0%	29430	258.0	3.0	6.0	24.0	0.0	21.7	OVR	10.7	0.3	N/A
		07/26/11	56.2%	0.0%	N/A	55.7%	0.0%	15800	205.8	27.0	3.0	24.0	0.0	11.5	OVR	10.5	0.8	N/A
		11/01/11	71.4%	0.0%	N/A	60.0%	0.0%		0.8	0.0	0.0	0.0	2.2	0.0	0.0	14.5	1.1	N/A
		01/24/12	58.0%	0.0%	N/A	77.1%	0.0%	0.0	0.2	0.0	0.0	0.0	14.1	0.0	0.0	10.6	8.8	N/A
		04/09/12	54.0%	0.0%	N/A	56.6%	0.1%	1	0.2	NM	NM	NM	NM	0.0	0.0	6.5	13.6	N/A
		07/09/12	62.5%	0.0%	N/A	68.1%	0.1%	2	1.5	NM	NM	NM	NM	0.0	0.0	4.2	16.8	N/A
		10/4/12[9]	55.2%	0.0%	N/A	51.6%	0.0%	0.0	0.3	NM	NM	NM	NM	0.0	0.0	3.1	19.2	N/A
	38 ft	02/11/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/18/11	55.0%	0.0%	N/A	50.0%	0.0%	60850	290.0	0.0	9.0	OVR	0.0	OVR	OVR	10.8	0.3	N/A
		07/26/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/01/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/24/12	62.0%	0.0%	N/A	51.0%	0.0%	142	40.1	0.0	0.0	0.0	3.2	0.0	0.0	16.4	0.8	N/A
		04/09/12	69.7%	0.0%	N/A	58.0%	0.0%	2	1.0	NM	NM	NM	NM	0.0	0.0	12.1	6.5	N/A
		07/09/12	54.8%	0.0%	N/A	58.9%	0.0%	1	1.0	NM	NM	NM	NM	0.0	0.0	6.4	14.8	N/A
		10/04/12	67.3%	0.0%	N/A	40.0%	0.0%	0.0	0.4	NM	NM	NM	NM	0.0	0.0	5.2	16.3	N/A
VMP-23	5 ft	02/15/11	62.3%	0.0%	N/A	80.3%	0.7%	7	0.5	0.0	0.0	0.0	18.4	18.6	11.0	0.3	19.9	N/A
		04/21/11	60.0%	0.0%	N/A	52.3%	0.0%	0.0	0.7	23.0	0.0	0.0	14.7	0.0	2.0	5.5	15.1	N/A
		07/27/11	62.8%	0.0%	N/A	53.7%	0.0%	0.0	4.9	2.0	0.0	0.0	5.3	0.0	0.0	8.8	9.2	N/A
		11/02/11	61.4%	0.0%	N/A	55.6%	0.1%	0.0	1.1	0.0	0.0	0.0	17.5	0.0	0.0	3.1	16.6	N/A
		01/25/12	59.0%	0.0%	N/A	66.0%	0.1%	1	0.3	0.0	0.0	0.0	19.1	0.0	0.0	2.3	18.8	N/A
		04/09/12	70.0%	0.0%	N/A	59.3%	0.1%	4	0.7	NM	NM	NM	NM	0.0	0.0	0.9	19.8	N/A
		07/09/12	56.2%	0.0%	N/A	67.1%	0.2%	6	1.5	NM	NM	NM	NM	0.0	0.0	1.7	19.0	N/A
		10/03/12	62.5%	0.0%	N/A	40.0%	0.1%	5	0.5	NM	NM	NM	NM	0.0	0.0	0.7	20.2	N/A
	10 ft	02/15/11	52.0%	0.0%	N/A	55.1%	0.0%	0.0	0.4	0.0	0.0	0.0	10.0	13.1	OVR	2.3	19.0	N/A
		04/21/11	52.3%	0.0%	N/A	58.2%	0.0%	0.0	1.2	16.0	0.0	0.0	11.8	0.2	6.0	6.5	12.1	N/A
		07/27/11	66.8%	0.0%	N/A	49.8%	0.0%	0.0	2.9	21.0	0.0	0.0	0.0	0.0	0.0	9.5	6.3	N/A
		11/02/11	71.0%	0.0%	N/A	59.8%	0.0%	0.0	1.2	0.0	0.0	0.0	11.6	0.0	0.0	7.3	10.1	N/A
		01/25/12	59.6%	0.0%	N/A	74.2%	0.0%	0	0.3	0.0	0.0	0.0	14.6	0.0	0.0	5.7	14.4	N/A
		04/09/12	59.7%	0.0%	N/A	53.7%	0.1%	2	0.7	NM	NM	NM	NM	0.0	0.0	1.0	19.5	N/A
		07/09/12	55.0%	0.0%	N/A	50.1%	0%	5	1.9	NM	NM	NM	NM	0.0	0.0	1.6	19.1	N/A
		10/03/12	60.2%	0.0%	N/A	41.0%	0.0%	3	0.6	NM	NM	NM	NM	0.0	0.0	0.9	19.8	N/A
	25 ft	02/15/11	54.5%	0.0%	N/A	51.9%	0.0%	0.0	1.2	0.0	0.0	0.0	2.1	0.0	1.0	14.9	0.6	N/A
		04/21/11	58.2%	0.0%	N/A	53.6%	0.0%	0.0	0.6	13.0	0.0	0.0	2.2	0.2	0.0	13.7	2.4	N/A
		07/27/11	58.7%	0.0%	N/A	45.2%	0.0%	7	4.4	22.0	0.0	0.0	0.0	0.0	0.0	11.9	1.3	N/A
		11/02/11	59.3%	0.0%	N/A	53.6%	0.0%		0.6	0.0	0.0	0.0	8.2	0.0	0.0	12.6	2.6	N/A
		01/25/12	52.4%	0.0%	N/A	NS	0.0%	235000	0.3	1.0	0.0	0.0	5.9	0.0	0.0	11.8	6.0	N/A
		04/09/12	60.0%	0.0%	N/A	50.3%	0.1%	2	2.0	NM	NM	NM	NM	0.0	0.0	5.5	15.0	N/A
		07/10/12	55.0%	0.0%	N/A	50.0%	0.0%	3	1.5	N/A	N/A	N/A	N/A	0.0	0.0	4.8	16.0	N/A
		10/03/12	62.4%	0.0%	N/A	40.0%	0.0%	2	0.7	NM	NM	NM	NM	0.0	0.0	4.0	17.5	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-23	40 ft	02/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/21/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		07/27/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/25/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/09/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/10/2012[11]	53.1%	0.0%	N/A	51.8%	0.0%	4	0.6	N/A	N/A	N/A	N/A	0.0	0.0	6.0	12.4	N/A
		07/31/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/03/12	63.4%	0.0%	N/A	43.0%	0.0%	2	1.1	NM	NM	NM	NM	0.0	0.0	6.5	15.3	N/A
VMP-24	5 ft	02/16/11	50.9%	0.0%	N/A	50.5%	0.0%	0.0	0.9	3.0	0.0	0.0	16.0	0.0	0.0	6.9	13.9	N/A
		04/08/11	53.5%	0.0%	N/A	53.1%	0.1%	42	0.7	0.0	0.0	0.0	15.0	0.0	0.0	4.9	15.9	N/A
		07/28/11	73.3%	0.0%	N/A	73.3%	0.0%	0.0	4.2	0.0	0.0	0.0	13.5	0.0	0.0	7.7	15.6	N/A
		11/02/11	75.6%	0.0%	N/A	52.4%	0.0%	0.0	1.0	0.0	0.0	0.0	14.2	0.0	0.0	8.7	12.8	N/A
		01/25/12	55.5%	0.0%	N/A	59.8%	0.0%	2	3.8	0.0	0.0	0.0	18.4	0.0	0.0	4.2	17.4	N/A
		04/09/12	69.9%	0.0%	N/A	59.8%	0.1%	3	1.5	NM	NM	NM	NM	0.0	0.0	5.2	17.5	N/A
		07/12/12	51.3%	0.0%	0.0%	55.2%	0.0%	4	1.5	NM	NM	NM	NM	0.0	0.0	5.4	16.6	N/A
		10/19/12[11]	67.2%	0.0%	N/A	37.2%	0.1%	1	0.4	NM	NM	NM	NM	0.0	0.0	4.0	18.2	N/A
	10 ft	02/17/11	51.0%	0.0%	N/A	59.5%	0.0%	0.0	0.3	0.0	0.0	0.0	20.9	0.0	0.0	0.0	19.9	N/A
		04/11/11	55.5%	0.0%	N/A	77.0%	0.0%	32	0.7	0.0	0.0	0.0	13.9	0.0	0.0	7.1	13.8	N/A
		07/28/11	63.1%	0.0%	N/A	50.7%	0.0%	0.0	5.2	0.0	0.0	0.0	8.6	0.0	0.0	0.1	22.6	N/A
		11/02/11	70.7%	0.0%	N/A	48.9%	0.0%	0.0	0.8	0.0	0.0	0.0	13.8	0.0	0.0	9.5	12.3	N/A
		01/25/12	54.3%	0.0%	N/A	53.2%	0.0%	1	1.2	0.0	0.0	0.0	15.7	0.0	0.0	8	13.8	N/A
		04/10/12	59.1%	0.0%	NS	63.8%	0.0%	0.0	0.5	NM	NM	NM	NM	0.0	0.00	6.4	15.9	N/A
		07/12/12	55.9%	0.0%	0.0%	51.2%	0.0%	4	1.6	NM	NM	NM	NM	0.0	0.0	6.4	15.0	N/A
		10/09/12	43.4%	0.0%	N/A	41.0%	0.0%	1	0.6	NM	NM	NM	NM	0.0	0.0	7.4	16.0	N/A
	22 ft	02/17/11	52.5%	0.0%	N/A	50.5%	0.0%	0.0	0.9	4.0	0.0	0.0	11.9	0.0	2.0	10.3	10.6	N/A
		04/11/11	67.8%	0.0%	N/A	67.8%	0.0%	47	0.3	0.0	0.0	3.0	11.9	0.0	0.0	8.8	10.8	N/A
		07/28/11	52.0%	0.0%	N/A	42.6%	0.0%	0.0	4.3	0.0	0.0	0.0	8.4	0.0	0.0	9.7	12.4	N/A
		11/06/11	52.5%	0.0%	N/A	50.5%	0.0%		0.2	0.0	0.0	0.0	18.3	0.0	0.0	10.1	11.8	N/A
		01/25/12	57.8%	0.0%	N/A	72.4%	0.0%	25	3.0	0.0	0.0	0.0	18.7	0.0	0.0	8.9	13.2	N/A
		04/10/12	64.3%	0.0%	N/A	67.1%	0.0%	1	0.7	NM	NM	NM	NM	0.0	0.0	8.2	14.2	N/A
		07/12/12	52.4%	0.0%	0.0%	53.4%	0.0%	3	1.0	NM	NM	NM	NM	0.0	0.0	6.2	14.8	N/A
		10/09/12	50.3%	0.0%	N/A	53.2%	0.0%	2	0.9	NM	NM	NM	NM	0.0	0.0	7.9	15.3	N/A
	34 ft	02/17/11	52.2%	0.0%	N/A	60.1%	0.0%	0.0	1.9	30.0	0.0	0.0	10.9	0.2	3.0	10.6	10.5	N/A
		04/11/11	70.9%	0.0%	N/A	74.4%	0.0%	41	0.1	0.0	0.0	2.0	11.1	0.0	0.0	9.2	11.0	N/A
		07/28/11	52.6%	0.0%	N/A	38.1%	0.0%	0.0	5.8	2.0	0.0	0.0	8.1	0.0	0.0	9.7	12.5	N/A
		11/06/11	66.1%	0.0%	N/A	60.2%	0.0%		0.2	0.0	0.0	0.0	15.0	0.0	0.0	8.6	12.9	N/A
		01/25/12	72.1%	0.0%	N/A	50.3%	0.0%	22	0.9	0.0	0.0	0.0	16.0	0.0	0.0	7.6	13.9	N/A
		04/10/12	60.3%	0.0%	N/A	62.3%	0.1%	2	0.9	NM	NM	NM	NM	0.0	0.0	5.6	16.6	N/A
		07/12/12	51.3%	0.0%	0%	59.4%	0.0%	3	1.4	NM	NM	NM	NM	0.0	0.0	5.7	16.5	N/A
		10/09/12	53.0%	0.0%	N/A	43.2%	0.0%	2	0.9	NM	NM	NM	NM	0.0	0.0	7.1	15.5	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-25	5 ft	03/15/11	55.9%	0.0%	N/A	53.4%	0.0%	159	88.2	0.0	0.0	0.0	2.0	0.0	0.0	5.0	1.8	N/A
		04/08/11	75.0%	0.0%	N/A	51.9%	0.0%	95	1.9	0.0	0.0	3.0	0.9	0.1	2.0	7.5	1.0	N/A
		08/09/11	66.0%	0.0%	0.0%	45.2%	0.0%	27900	2.4	4.0	0.0	0.0	16.8	0.0	0.0	16.0	2.8	N/A
		11/17/11	63.9%	0.0%	N/A			13	0.4	0.0	0.0	0.0	7.2	0.0	0.0	3.4	11.4	N/A
		01/31/12	54.0%	0.0%	N/A	53.0%	0.0%	0.0	0.3	0.0	0.0	0.0	11.2	0.0	0.0	2.5	11.0	N/A
		04/25/12	55.2%	0.0%	N/A	51.6%	0.0%	2	0.5	NM	NM	NM	NM	0.0	0.0	5.2	12.0	N/A
		07/26/12	60.7%	0.0%	0.0%	55.2%	0.1%	2	0.4	NM	NM	NM	NM	0.0	0.0	10.5	6.7	N/A
		10/26/12	56.9%	0.0%	N/A	55.4%	0.0%	3	0.5	NM	NM	NM	NM	0.0	0.0	5.0	13.2	N/A
	9.5 ft	03/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/17/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/31/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/25/2012 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/26/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/26/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 ft	03/15/11	59.6%	8.2%	OVR	38.3%	8.9%	OVR	268.3	182.0	39.0	OVR	0.2	OVR	OVR	15.3	0.6	8.6%
		04/08/11	72.4%	4.1%	OVR	54.3%	4.6%	632000	150.0	OVR	54.0	OVR	0.8	OVR	OVR	14.4	0.8	N/A
		08/09/11	58.3%	11.4%	OVR	56.9%	10.2%	OVR	175.9	605.0	68.0	OVR	0.0	OVR	OVR	14.9	1.0	N/A
		11/17/11	60.3%	3.6%	OVR	50.7%	4.6%	OVR	125.2	380.0	0.0	OVR	0.0	OVR	OVR	14.4	1.1	N/A
		01/31/12	62.0%	7.5%	OVR	52.7%	8.6%	OVR	140.2	210.0	103.0	OVR	0.9	OVR	OVR	14.2	0.7	N/A
		04/25/12	70.2%	9.3%	OVR	57.3%	10.3%	OVR	83.9	NM	NM	NM	NM	OVR	OVR	11.8	1.3	N/A
		07/26/12	71.0%	8.8%	OVR	66.0%	6.9%	OVR	59.6	NM	NM	NM	NM	OVR	OVR	11.7	1.6	N/A
		10/26/12	54.0%	9.7%	OVR	54.3%	9.0%	OVR	74.85	NM	NM	NM	NM	OVR	OVR	14.2	4.7	N/A
	31 ft	03/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		04/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/17/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		01/31/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		4/25/2012 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/26/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/26/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-29	10 ft	07/30/12	61.9%	0.0%	N/A	57.8%	0.0%	7	2.5	NM	NM	NM	NM	0.0	0.0	8.8	9.2	N/A
		10/08/12	52.9%	0.0%	N/A	40.5%	0.0%	1	1.7	NM	NM	NM	NM	0.0	0.0	8.1	10.6	N/A
	20 ft	07/30/12	65.0%	0.0%	N/A	65.5%	0.1%	105	31.2	NM	NM	NM	NM	0.0	0.0	9.3	8.1	N/A
		10/08/12	54.1%	0.0%	N/A	45.6%	0.0%	10	7.3	NM	NM	NM	NM	0.0	0.0	8.8	9.4	N/A
	30 ft	07/30/12	68.1%	0.0%	N/A	49.6%	0.0%	75	17.2	NM	NM	NM	NM	0.0	0.0	10.3	5.7	N/A
		10/08/12	58.6%	0.0%	N/A	48.2%	0.0%	13	10.84	NM	NM	NM	NM	0.0	0.0	11.2	6.5	N/A
	40 ft	7/30/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/08/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-30	10 ft	07/30/12	59.5%	0.0%	N/A	54.4%	0.6%	27	19.6	NM	NM	NM	NM	0.0	0.0	4.6	14.2	N/A
		10/08/12	61.8%	0.0%	N/A	50.9%	0.0%	1	0.9	NM	NM	NM	NM	0.0	0.0	3.0	17.1	N/A
	20 ft	07/30/12	51.2%	0.0%	N/A	40.8%	0.0%	113	40.1	NM	NM	NM	NM	0.0	0.0	11.7	3.9	N/A
		10/08/12	71.5%	0.0%	N/A	45.8%	0.0%	35	19.27	NM	NM	NM	NM	0.0	0.0	10.8	8.2	N/A
	30 ft	07/30/12	50.4%	0.0%	N/A	49.5%	0.0%	257	105.0	NM	NM	NM	NM	0.0	0.0	11.7	2.6	N/A
		10/08/12	65.9%	0.0%	N/A	40.2%	0.0%	42	21.33	NM	NM	NM	NM	0.0	0.0	13.4	5.5	N/A
	40 ft	7/30/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/08/12[13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-31	5 ft	04/25/12	55.1%	0.0%	N/A	63.6%	0.2%	4	NS	NM	NM	NM	NM	0.0	0.0	0.9	18.3	N/A
		07/20/12	52.8%	0.0%	N/A	45.2%	0.0%	4	0.9	N/A	N/A	N/A	N/A	0.0	0.0	0.8	18.7	N/A
		10/26/12[9]	53.2%	0.0%	N/A	51.7%	1.1%	2	0.4	NM	NM	NM	NM	0.0	0.0	0.7	20.2	N/A
	10 ft	04/24/12	52.2%	0.0%	N/A	56.4%	0.4%	4	NS	NM	NM	NM	NM	0.0	0.0	0.9	18.2	N/A
		7/26/2012[9]	50.7%	0.0%	N/A	59.5%	0%	7	0.7	NM	NM	NM	NM	0.0	0.0	1.1	19.7	N/A
		10/26/12[9]	54.3%	1.7%	N/A	49.0%	2.7%	2	1.0	NM	NM	NM	NM	0.0	0.0	0.6	19.9	N/A
	20 ft	4/24/2012 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		7/20/12 [13]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		10/19/12	64.2%	0.0%	N/A	56.5%	0.0%	2970	463	NM	NM	NM	NM	3.4	71	8.4	9.5	N/A
	30 ft	04/24/12	52.5%	0.0%	N/A	51.7%	0.0%	15000	NS	NM	NM	NM	NM	7.7	OVR	10.7	1.3	N/A
		07/20/12	57.4%	0.0%	N/A	40%	0.0%	851	20.2	N/A	N/A	N/A	N/A	0.2	6.0	9.6	6.4	N/A
		10/19/12	51.2%	0.0%	N/A	56.7%	0.0%	204	19.0	NM	NM	NM	NM	0.2	3	2.8	18.5	N/A
VMP-32	5 ft	04/16/12 [9]	54.2%	0.0%	0.0%	58.2%	49.5%	NS	NS	NM	NM	NM	NM	NS	NS	NS	NS	N/A
		04/25/12	54.9%	0.2%	N/A	52.5%	1.2%	0.0	0.8	NM	NM	NM	NM	0.0	0.0	0.1	20.8	N/A
		07/20/12	69.4%	0.0%	0.0%	48.1%	2.0%	4	1.3	NM	NM	NM	NM	0.0	0.0	1.2	19.4	N/A
		10/18/12	75.1%	0.0%	N/A	50.0%	0.1%	2	0.6	NM	NM	NM	NM	0.0	0.0	0.9	18.5	N/A
	10 ft	04/16/12	60.8%	0.2%	0.0%	50.0%	0.3%	0.0	1.1	NM	NM	NM	NM	0.0	0.0	2.6	18.5	N/A
		07/20/12	58.6%	0.0%	0.0%	48.9%	1.2%	2	1.3	NM	NM	NM	NM	0.0	0.0	3.7	16.4	N/A
		10/18/12	64.9%	0.0%	N/A	51.2%	0.0%	1	0.7	NM	NM	NM	NM	0.0	0.0	3.5	17.0	N/A
	20 ft	04/16/12	55.5%	0.0%	0.0%	60.8%	0.2%	117	21.29	NM	NM	NM	NM	0.0	0.0	3.7	16.1	N/A
		07/20/12	55.2%	0.0%	0.0%	52.2%	0.1%	3	1.6	NM	NM	NM	NM	0.0	0.0	4.5	15.0	N/A
		10/18/12	77.5%	0.0%	N/A	57.4%	0.0%	2	0.5	NM	NM	NM	NM	0.0	0.0	5.0	16.5	N/A
	30 ft	04/16/12	53.8%	0.0%	0.0%	60.4%	0.0%	36660	529	NM	NM	NM	NM	OVR	OVR	10.5	1.0	N/A
		07/20/12	52.3%	0.0%	18.0%	63.1%	0.0%	6000	385.0	NM	NM	NM	NM	25.2	OVR	9.8	1.8	N/A
		10/18/12	60.2%	0.0%	N/A	53.2%	0.0%	206	13.03	NM	NM	NM	NM	0.0	1	11.1	5.5	N/A
VMP-41	10 ft	07/27/12	58.6%	0.0%	N/A	78.0%	0.1%	15	0.4	NM	NM	NM	NM	0.0	0.0	5.1	15.0	N/A
		10/09/12	46.7%	0.0%	N/A	42.6%	0.0%	1	0.9	NM	NM	NM	NM	0.0	0.0	4.8	15.0	N/A
	20 ft	07/27/12	62.0%	0.0%	N/A	62.5%	0.0%	3	0.4	NM	NM	NM	NM	0.0	0.0	7.2	12.4	N/A
		10/09/12	50.6%	0.0%	N/A	40.7%	0.0%	1	1.3	NM	NM	NM	NM	0.0	0.0	6.7	12.7	N/A
	30 ft	07/27/12	53.2%	0.0%	N/A	50.2%	0.0%	4	0.6	NM	NM	NM	NM	0.0	0.0	8.1	11.0	N/A
		10/09/12	46.8%	0.0%	N/A	40.5%	0.0%	1	0.7	NM	NM	NM	NM	0.0	0.0	8.8	10.0	N/A

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TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-42	10 ft	04/18/12	52.7%	0.0%	N/A	69.5%	0.1%	3	0.6	NM	NM	NM	NM	0.0	0.0	3.5	18.0	N/A
		07/19/12	51.5%	0.0%	N/A	72.0%	0.1%	1	0.7	NM	NM	NM	NM	0.0	0.0	1.6	19.4	N/A
		10/12/12	49.2%	0.0%	N/A	52.6%	0.0%	2	4.6	NM	NM	NM	NM	0.0	0.0	1.1	20.4	N/A
	20 ft	04/18/12	51.5%	0.0%	N/A	66.8%	0.0%	837	39.5	NM	NM	NM	NM	0.0	0.0	10.8	5.8	N/A
		07/19/12	54.0%	0.0%	N/A	69.5%	0%	1	0.8	NM	NM	NM	NM	0.0	0.0	6.7	14.2	N/A
		10/12/12	64.2%	0.0%	N/A	83.0%	0.2%	1	0.9	NM	NM	NM	NM	0.0	0.0	4.1	17.7	N/A
	30 ft	04/19/12	54.6%	0.0%	N/A	68.5%	0.0%	9330	160	NM	NM	NM	NM	11.5	OVR	12.3	0.2	N/A
		07/19/12	51.8%	0.0%	0.2%	64.7%	0.0%	550	29.4	NM	NM	NM	NM	0.3	6.0	9.2	5.4	N/A
		10/12/12	51.6%	0.0%	N/A	65.8%	0.0%	15	2.2	NM	NM	NM	NM	0.0	0.0	8.6	12.0	N/A
VMP-43	10 ft	04/16/12	53.5%	0.0%	0.0%	53.5%	4.2%	2	0.8	NM	NM	NM	NM	0.0	0.0	0.0	20.9	N/A
		07/19/12	67.2%	0.0%	0.0%	65.4%	2.5%	2	0.6	NM	NM	NM	NM	0.0	0.0	1.0	19.7	N/A
		10/16/12	66.3%	0.0%	N/A	40.1%	0.0%	1	0.5	NM	NM	NM	NM	0.0	0.0	0.4	18.5	N/A
	20 ft	04/16/12	52.5%	0.0%	0.1%	86.0%	0.1%	338	33.48	NM	NM	NM	NM	0.0	1.0	4.3	15.1	N/A
		07/19/12	67.0%	0.0%	0.0%	50.7%	0.1%	38	7.7	NM	NM	NM	NM	0.0	0.0	2.7	17.9	N/A
		10/18/12	72.1%	0.0%	N/A	55.1%	0.0%	13	1.6	NM	NM	NM	NM	0.0	0.0	2.8	18.3	N/A
	30 ft	4/23/2012[9]	61.2%	0.0%	N/A	82.2%	0.0%	36	26.0	NM	NM	NM	NM	0.0	0.0	4.3	16.1	N/A
		07/19/12	66.7%	0.0%	0%	52.0%	0.0%	10	1.6	NM	NM	NM	NM	0.0	0.0	2.4	18.0	N/A
		10/18/12	66.5%	0.0%	N/A	59.0%	0.0%	2	0.5	NM	NM	NM	NM	0.0	0.0	1.6	19.4	N/A
VMP-44	10 ft	04/19/12	51.5%	0.0%	N/A	61.3%	0.0%	15900	770.0	NM	NM	NM	NM	52.1	OVR	9.2	5.5	N/A
		07/20/12	51.0%	0.0%	N/A	50.2%	0.0%	9340	500.0	NM	NM	NM	NM	30.0	OVR	14.6	3.7	N/A
		8/10/2012[14]	51.6%	0.0%	N/A	62.0%	0.0%	9450	437.0	NM	NM	NM	NM	29.4	OVR	13.9	5.5	N/A
		10/12/12	66.7%	0.8%	NM	35.0%	0.7%	1370	245	NM	NM	NM	NM	0.9	20	5.4	13.0	N/A
	20 ft	04/19/12	51.0%	0.0%	N/A	57.1%	0.0%	5420	432.0	NM	NM	NM	NM	8.6	OVR	11.5	1.3	N/A
		07/25/12	58.2%	0.0%	N/A	52.8%	0.3%	5200	420.0	N/A	N/A	N/A	N/A	9.5	OVR	16.1	2.2	N/A
		10/12/12	58.3%	0.0%	N/A	52.3%	0.0%	1800	223	NM	NM	NM	NM	1.6	32	7.6	12.8	N/A
	30 ft	04/19/12	63.0%	0.0%	N/A	55.8%	0.0%	1760	140.0	NM	NM	NM	NM	0.5	10.0	10.2	2.1	N/A
		07/25/12	58.6%	0.0%	N/A	52.9%	0.0%	127	18.3	N/A	N/A	N/A	N/A	1.0	1.0	9.0	9.5	N/A
		10/15/12	60.8%	0.0%	N/A	40.2%	1.8%	290	42.49	NM	NM	NM	NM	0.2	4	5.7	15.1	N/A

TABLE 3
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location			Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2										Tedlar Bag 3
Instrument			Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Location	Depth	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-45	10 ft	04/19/12	61.9%	0.0%	0.0%	80.9%	0.5%	4	1.6	NM	NM	NM	NM	0.0	0.0	0.9	19.9	N/A
		07/19/12	65.0%	0.0%	N/A	69.7%	0.4%	1	0.6	NM	NM	NM	NM	0.0	0.0	0.7	19.6	N/A
		10/15/12	76.7%	0.0%	N/A	43.8%	0.1%	1	0.3	NM	NM	NM	NM	0.0	0.0	0.4	20.9	N/A
	20 ft	04/19/12	60.2%	0.0%	0.0%	59.2%	0.0%	1300	206.0	NM	NM	NM	NM	0.5	11	5.9	13.2	N/A
		07/19/12	67.1%	0.0%	N/A	47.6%	0.0%	220	46.5	NM	NM	NM	NM	0.0	1.0	4.3	15.9	N/A
		10/15/12	51.1%	1.3%	N/A	50.5%	0.1%	26	7.0	NM	NM	NM	NM	0.0	0.0	2.6	18.7	N/A
	30 ft	04/19/12	52.3%	0.0%	9.3%	51.3%	0.0%	9030	826.0	NM	NM	NM	NM	17.4	OVR	9.9	3.9	N/A
		07/19/12	51.5%	0.0%	N/A	51.8%	0.0%	610	210.0	NM	NM	NM	NM	0.4	8.0	7.6	8.4	N/A
		10/15/12	54.2%	0.0%	N/A	52.2%	0.1%	41	17.95	NM	NM	NM	NM	0.0	0.0	4.2	16.4	N/A

Notes:
1. November 2009 Sampling and the June 2010 Supplemental utilized a MuitiRAE IR for CO2 readings. Any CO2 over 5% resulted in a "OVR" reading. No direct CH4 or secondary LEL and 02 readings were collected.
2. Flame ionization detection (FID) was not used during the November 2009 Sampling or the June 2010 Supplemental.
3. OVR is used to indicate a reading over range for the FID or MultiRAE.
4. The Landtec landfill gas analyzer displays "OVR" for any results calculated higher than 99.9% for an individual reading.
5. N/A is used to indicate that a reading was not collected because it was unnecessary (i.e., a direct port for helium if the helium leak check was successful).
6. NS is used to indicate that a reading was not collected because the port could not be sampled.
7. NM is used to indicate a reading that was not collected because the MultiGas meter was not used beginning 2Q12.
8. FID readings were taken with a TVA-1000. Due to oxygen concentrations less than 16% a dilution tip was used when analyzing samples. The dilution tip introduced ambient air in a 10:1 ration with the sample, which required the sample readings to be multiplied by 10 to get the actual reading. The FID readings in this spreadsheet illustrate the actual FID values that were represented in each sample.
9. VMP sample port successfully resampled after helium leak check failure.
10. VMP sample port unsuccessfully sampled after three attempts due to helium leak check failures.
11. VMP sample port resampled due to issues with the canister after analyzed by the laboratory.
12. VMP sample port resampled due to issues with the canister in the field.
13. VMP sample port not sampled because screen submerged below water table.
14. VMP sample port resampled to verify results from the laboratory.
15. Negative readings on the FID are recorded as zero.

TABLE 4
SOIL VAPOR SCREENING CRITERIA

Chemical	Residential (mg/m^3)	Industrial/ Commercial (mg/m^3)
TO-15 Analytes		
Acetone	750,000	750,000
Benzene	0.37	2.8
Bromodichloromethane	450,000	450,000
Bromoform	11	52
Bromomethane	6 9	42
1,3-Butadiene		
2-Butanone	6,400	40,000
Carbon disulfide	780	5,300
Carbon tetrachloride	0.21	1.5
Chlorobenzene	69	420
Chlorodibromomethane	57,000	57,000
Chloroethane		
Chloroform	0.11	0.92
Chloromethane		
Allyl chloride (3-Chloropropene)		
alpha-Chlorotoluene		
Cyclohexane		
1,2-Dibromo-3-chloropropane (DBCP)	0 0012	0.0062
1,2-Dibromoethane	0.011	0.06
1,2-Dichlorobenzene	290	1,700
1,3-Dichlorobenzene		
1,4-Dichlorobenzene	1,200	6,800
1,1-Dichloroethane	690	4,200
1,2-Dichloroethane	0.099	0.81
1,1-Dichloroethene	240	1,600
cis-1,2-Dichloroethene	1,100,000	1,100,000
trans-1,2-Dichloroethene	85	510
Dichloromethane (Methylene chloride)	5 6	45
1,2-Dichloropropane	0.062	0.46
cis-1,3-Dichloropropene	0 9	6.2
trans-1,3-Dichloropropene	0 9	6.2
1,4-Dioxane	0.22	2.3
Ethanol		
Ethylbenzene	1,400	8,300
4-Ethyltoluene		
Freon 11		
Freon 12		
Freon 113		
Freon 114		
Heptane		
Hexachlorobutadiene		
Hexane		
2-Hexanone (Methyl N-Butyl Ketone)		
Isopropylbenzene (Cumene)	600	3,500
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
Methyl tert-Butyl Ether (MTBE)	3,400	23,000
n-Propylbenzene		
2-Propanol		
Styrene	1,400	8,500
Tetrachloroethene	0.55	4
1,1,2,2-Tetrachloroethane		
Tetrahydrofuran		
Toluene	6,200	40,000
1,2,4-Trichlorobenzene	11	50
Trichloroethene	1 5	12
1,1,1-Trichloroethane (Methyl chloroform)	6,600	41,000
1,1,2-Trichloroethane	170,000	170,000
Trichloroflouromethane	860	5,600
1,2,4-Trimethylbenzene		
1,3,5-Trimethylbenzene		
2,2,4-Trimethylpentane		
Vinyl chloride	0.29	4.8
Xylenes (total)	140	840
m,p-Xylene	130	820
o-Xylenes	120	790

Note:

1. Screening criteria source: Illinois Pollution Control Board, Notice of Proposed Amendments - Tiered Approach to Corrective Action (TACO) Title 35 - Part 742. Table H: Tier 1 Indoor Inhalation Remediation Objectives for Residential and Industrial/Commercial Properties for the Diffusion and Advection Exposure Route, November 9, 2010.

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TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	0.068			<0.022	U		0.044			<0.028	U		<0.044	U		<0.016	U		<0.0094	U					0.0066	J	
		VMP-1-5-111710	11/17/2010	0.019	J		<0.027	U		0.0069	J		<0.034	U		<0.053	U		<0.02	U		<0.011	U					<0.015	U	
		VMP-1-5-020411	2/4/2011	0.42	J		<0.52	U		0.14	J		<0.68	U		<1	U		<0.39	U		<0.22	U					<0.3	U	
		VMP-1-5-041211	4/12/2011	0.012	J		<0.0068	U		0.6			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U		0.033			0.0018	J	
		VMP-1-5-080111	8/1/2011	<0.012	U		<0.0068	U		0.051			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U		0.21			0.017		
		VMP-1-5-110311	11/3/2011	110			<18	U		<11	U		<23	U		<36	U		<14	U		<7.7	U		2000			3.1	J	
		VMP-1-5-013012	1/30/2012	<2.8	U		<1.5	U		0.28	J	J	<2	U		<3	U		<1.1	U		<0.64	U		3400			<3.4	U	
		VMP-1-5-041312	4/13/2012	0.017	J		<0.0046	U		0.014			<0.006	U		<0.0092	U		<0.035	U		<0.002	U		0.008	J		0.0065	J	
		VMP-1-5-071612	7/16/2012	0.078			<0.0047	U		0.084			0.0018	J		<0.0094	U		<0.036	U	UJ	<0.002	U		0.018			0.068		
		VMP-1-5-101112	10/11/2012	0.028	J		<0.012	U		<0.0073	U		<0.015	U		<0.024	U		<0.089	U		<0.0051	U		2.7			<0.027	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	0.054	J		<0.066	U		0.0079	J		<0.086	U		<0.13	U		<0.05	U		<0.028	U					<0.038	U	
		VMP-1-8.5-111710	11/17/2010	0.024			<0.013	U		0.0035	J		<0.016	U		<0.026	U		<0.0096	U		<0.0055	U					0.0048	J	
		VMP-1-8.5-111710-Dup	11/17/2010	0.016	J		<0.013	U		0.0034	J		<0.016	U		<0.026	U		<0.0096	U		<0.0055	U					0.0037	J	
		VMP-1-8.5-020411	2/4/2011	0.31	J		<1	U		0.26	J		<1.3	U		<2	U		<0.77	U		<0.44	U					<0.58	U	
		VMP-1-8.5-041211	4/12/2011	0.011	J		<0.009	U		0.31			<0.012	U		<0.018	U		<0.0068	U		<0.0038	U		0.026			<0.02	U	
		VMP-1-8.5-080111	8/1/2011	<6.8	U		<3.7	U		<2.3	U		<4.8	U		<7.4	U		<2.8	U		<1.6	U		840			<8.5	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<6.7	U		<3.6	U		6.2			<4.7	U		<7.3	U		<2.7	U		<1.6	U		780			<8.3	U	
		VMP-1-8.5-110311	11/3/2011	240			<42	U		<26	U		<54	U		<83	U		<31	U		<18	U		4800			<95	U	
		VMP-1-8.5-013012	1/30/2012	1.4	J		<9	U		<5.6	U		<12	U		<18	U		<6.8	U		<3.9	U		3600			<21	U	
		VMP-1-8.5-041612	4/16/2012	0.022	J		0.0015	J		0.0083			<0.0071	U		<0.011	U		<0.041	U		<0.0023	U		0.12			0.0059	J	
		VMP-1-8.5-041612-Dup	4/16/2012	0.02	J		<0.0053	U		0.0072			<0.0069	U		<0.011	U		<0.04	U		<0.0023	U		0.12			0.0054	J	
		VMP-1-8.5-071612	7/16/2012	0.06			<0.0048	U		0.058			<0.0062	U		<0.0095	U		<0.036	U	UJ	<0.002	U		<0.0087	U		0.053		
		VMP-1-8.5-101112	10/11/2012	0.0066	J		<0.0073	U		0.0037	J		<0.0094	U		<0.014	U		<0.055	U		<0.0031	U		0.07			<0.017	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<4.3	U		<2.3	U		1.4			<3	U		<4.6	U		<1.7	U		<0.99	U					<1.3	U	
		VMP-1-23.5-111810	11/17/2010	0.011	J		<0.0064	U		0.0014	J		<0.0083	U		<0.013	U		<0.0048	U		<0.0027	U					0.0012	J	
		VMP-1-23.5-020411	2/4/2011	3	J		<6	U		<3.7	U		<7.8	U		<12	U		<4.5	U		<2.6	U					<3.4	U	
		VMP-1-23.5-041211	4/12/2011	9.8	J		<9.8	U		<6.1	U		<13	U		<20	U		<7.4	U		<4.2	U		1300			<22	U	
		VMP-1-23.5-041211-DUP	4/12/2011	8	J		<12	U		<7.7	U		<16	U		<25	U		<9.3	U		<5.3	U		1700			<28	U	
		VMP-1-23.5-080111	8/1/2011	<120	U		<67	U		<41	U		<86	U		<130	U		<50	U		<28	U		25000			<150	U	
		VMP-1-23.5-110611	11/6/2011	9.5	J		<16	U		<9.7	U		<20	U		3.9	J		<12	U		<6.7	U		9400			6	J	
		VMP-1-23.5-013112	1/31/2012	<57	U		<120	U		<19	U		<40	U		<250	U		<23	U		<13	U		7200			<71	U	
		VMP-1-23.5-041612	4/16/2012	0.68	J		<2.5	U		<1.5	U		<3.2	U		<4.9	U		<1.8	U		<1	U		800			<5.6	U	
		VMP-1-23.5-071612	7/16/2012	<57	U		<31	U		<19	U		<40	U		<62	U		<23	U		<13	U		11000			<71	U	
		VMP-1-23.5-102412	10/24/2012	<110	U		<62	U		<38	U		<81	U		<120	U		<47	U		<27	U		4200			<140	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	0.14			<0.0048	U		0.042			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		0.0028	J		0.022		
		VMP-1-38.5-102612	10/26/2012	<6.2	U		<3.4	U		0.71	J		<4.4	U		<6.7	U		<2.5	U		<1.4	U		4200			<7.7	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<4.3	U		<2.3	U		0.89	J		<3	U		<4.6	U		<1.7	U		<0.99	U					<1.3	U	
		VMP-2-5-111610	11/16/2010	<6.3	U		<3.4	U		<2.1	U		<4.4	U		<6.8	U		<2.6	U		<1.5	U					<1.9	U	
		VMP-2-5-020411	2/4/2011	0.45	J		<0.89	U		<0.55	U		<1.2	U		<1.8	U		<0.67	U		<0.38	U					<0.51	U	
		VMP-2-5-041311	4/13/2011	0.012	J		<0.0072	U		0.33			<0.0093	U		<0.014	U		<0.0054	U		<0.0031	U		0.1			<0.016	U	
		VMP-2-5-080211	8/2/2011	<14	U		<7.5	U		<4.6	U		<9.7	U		<15	U		<5.6	U		<3.2	U		2200			<17	U	
		VMP-2-5-110711	11/7/2011	0.02			<0.0044	U		0.0025	J		<0.0057	U		<0.0088	J	U	<0.0033	U		<0.0019	U		<0.0081	U		0.0051	J	
		VMP-2-5-012512	1/25/2012	3.8			<0.5	U		0.23	J		<0.65	U		<1	U		<0.38	U		<0.21	U		<0.92	U		0.98	J	
		VMP-2-5-042512	4/25/2012	0.055	J		<0.02	U		0.18			<0.026	U		<0.039	U		<0.15	U		<0.0084	U		0.066			0.047		
		VMP-2-5-071612	7/16/2012	0.12			<0.0048	U		0.067			<0.0062	U		<0.0096	U		<0.036	U	UJ	<0.002	U		0.4			0.066		
		VMP-2-5-102412	10/24/2012	0.077			<0.0074	U		0.17			<0.0096	U		<0.015	U		<0.056	U		<0.0032	U		0.012	J		0.034		
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<4.4	U		<2.4	U		1.4			<3.1	U		<4.8	U		<1.8	U		<1	U					<1.4	U	
		VMP-2-8.5-111610	11/16/2010	<12	U		<6.5	U		<4	U		<8.4	U		<13	U		<4.9	U		<2.8	U					<3.7	U	
		VMP-2-8.5-020411	2/4/2011	0.56	J		<2.2	U		<1.4	U		<2.9	U		<4.4	U		<1.7	U		<0.95	U					<1.3	U	
		VMP-2-8.5-041311	4/13/2011	<1.2	U		<0.68	U		1.1			<0.88	U		<1.4	U		0.24	J		<0.29	U		1.5			<1.6	U	
		VMP-2-8.5-080211	8/2/2011	12	J		<27	U		<17	U		<36	U		<55	U		<20	U		<12	U		4200			<62	U	
		VMP-2-8.5-110711	11/7/2011	<0.11	U		<0.059	U		<0.036	U		<0.076	U		<0.12	U		<0.044	U		<0.025	U		<0.11	U		<0.13	U	
		VMP-2-8.5-012612	1/26/2012	<4.8	U		<10	U		0.53	J		<3.4	U		<21	U		<2	U		<1.1	U		320			<6	U	
		VMP-2-8.5-012612-DUP	1/26/2012	0.37	J	J	<10	U		0.79	J		<3.4	U		<21	U		<2	U		<1.1	U		370		J	<6	U	
		VMP-2-8.5-041612	4/16/2012	0.018	J		<0.0051	U		0.012			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		0.03		J	0.0056	J	
		VMP-2-8.5-041612-Dup	4/16/2012	0.032			<0.0052	U		0.013			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		0.0096		J	0.0062	J	
		VMP-2-8.5-071612	7/16/2012	0.047			<0.0058	U		0.087			<0.0075	U		<0.012	U		<0.043	U	UJ	<0.0025	U		0.077		J	0.024		
		VMP-2-8.5-071612-Dup	7/16/2012	0.071			<0.0048	U		0.084			<0.0062	U		<0.0095	U		0.0039	J	J	<0.002	U		0.02		J	0.028		
		VMP-2-8.5-102312	10/23/2012	0.052			<0.0075	U		0.014			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.58			0.01	J	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<6.7	U		<3.6	U		1.7	J		<4.7	U		<7.3	U		<2.7	U		<1.6	U					<2.1	U	
		VMP-2-22-111610	11/16/2010	<12	U		<6.8	U		<4.2	U		<8.8	U		<14	U		<5.1	U		<2.9	U					<3.9	U	
		VMP-2-22-020411	2/4/2011	1.4	J		<3.1	U		0.75	J		<4	U		<6.2	U		<2.3	U		<1.3	U					<1.8	U	
		VMP-2-22-041311	4/13/2011	<16	U		<9	U		1	J		<12	U		<18	U		<6.8	U		<3.9	U		410			<20	U	
		VMP-2-22-080211	8/2/2011	<67	U		<36	U		<22	U		<47	U		<73	U		<27	U		<16	U		4900			<83	U	
		VMP-2-22-110711	11/7/2011	29		J	<1.9	U		0.24	J		<2.5	U		<3.9	U		<1.4	U		<0.83	U		230			0.37	J	
		VMP-2-22-012612	1/26/2012	<7.4	U		<16	U		0.74	J	J	<5.2	U		<32	U		<3	U		<1.7	U		500		J	<9.1	U	
		VMP-2-22-042712	4/27/2012	0.014	J		0.00074	J		0.079			<0.0054	U		<0.0083	U		0.0056	J		<0.0018	U		0.0086			0.015		
		VMP-2-22-071612	7/16/2012	0.13			<0.0049	U		0.19			<0.0064	U		<0.0098	U		0.0012	J	J	<0.0021	U		0.042			0.054		
		VMP-2-22-102312	10/23/2012	0.055			<0.0075	U		0.0066			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.079			0.006	J	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<13	U		<6.9	U		7.8			<8.9	U		<14	U		<5.2	U		<2.9	U					<3.9	U	
		VMP-3-5-112210	11/22/2010	3.1	J		<7	U		2.8	J		<9	U		<14	U		<5.2	U		<3	U					<4	U	
		VMP-3-5-020911	2/9/2011	<5.7	U		<3.1	U		<1.9	U		<4	U		<6.2	U		<2.3	U		<1.3	U					<1.8	U	
		VMP-3-5-041411	4/14/2011	<62	U		<34	U		<21	U		<44	U		<67	U		<25	U		<14	U		9600			<77	U	
		VMP-3-5-080211	8/2/2011	<0.015	U		<0.008	U		0.15			<0.01	U		<0.016	U		<0.006	U		<0.0034	U		0.1			0.018		
		VMP-3-5-110811	11/8/2011	0.025			<0.0044	U		0.00065	J		<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		<0.0081	U		0.0046	J	
		VMP-3-5-110811-DUP	11/8/2011	0.018			<0.0045	U		0.0006	J		<0.0059	U		<0.009	U		<0.0034	U		<0.0019	U		0.0091			0.0036	J	
		VMP-3-5-012712	1/27/2012	<4.2	U		<9	U		0.63	J		<2.9	U		<18	U		<1.7	U		<0.97	U		460			<5.2	U	
		VMP-3-5-041912	4/19/2012	0.078			<0.0049	U		0.086			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		0.007	J		0.068		
		VMP-3-5-072712	7/27/2012	0.11			<0.0052	U		0.13			0.00097	J		<0.01	U		<0.039	U		<0.0022	U		0.0047	J		0.026		
	10 ft	VMP-3-10	6/21/2010	<14	U		<7.8	U		8.6			<10	U		<16	U		<5.9	U		<3.4	U					<4.5	U	
		VMP 3-10-091010	9/10/2010	8.9	J		<22	U		14			<28	U		<44	U		<16	U		<9.4	U					<12	U	
		VMP-3-10-092010	9/20/2010	<29	U		<16	U		9	J		<21	U		<32	U		<12	U		<6.8	U					<9.1	U	
		VMP-3-10-112210	11/22/2010	<12	U		<6.8	U		18			<8.8	U		<14	U		<5.1	U		<2.9	U					<3.9	U	
		VMP-3-10-112210-Dup	11/22/2010	<17	U		<9.5	U		15			<12	U		<19	U		<7.1	U		<4.1	U					<5.4	U	
		VMP-3-10-020811	2/8/2011	6.7	J		<10	U		13			<13	U		<20	U		<7.5	U		<4.3	U					<5.7	U	
		VMP-3-10-041311	4/13/2011	<110	U		<58	U		<36	U		<75	U		<120	U		<44	U		<25	U		19000			<130	U	
		VMP-3-10-080311	8/3/2011	<0.13	U		<0.074	U		0.068			<0.095	U		<0.15	U		<0.055	U		<0.031	U		26	E	J	<0.17	U	
		VMP-3-10-110811	11/8/2011	0.068		J	<0.006	U		0.0011	J		<0.0078	U		<0.012	U		0.002	J		<0.0026	U		0.31			0.0056	J	
		VMP-3-10-012712	1/27/2012	<0.08	J	U	<0.17	U		0.091			<0.056	U		<0.35	U		<0.033	U		<0.018	U		6.9			<0.099	U	
		VMP-3-10-042012	4/20/2012	0.023			<0.0044	J	U	0.027			<0.0057	J	U	0.0019	J		<0.033	U		<0.0019	U		0.047			0.025		
		VMP-3-10-072312	7/23/2012	0.078			<0.0052	J	U	0.0049			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		0.06			0.013		
		VMP-3-10-101812	10/18/2012	0.029	J		<0.0078	U		0.066			<0.01	U		<0.016	U		<0.059	U		<0.0034	U		0.0048	J		0.008	J	
	22 ft	VMP-3-22-092010	9/20/2010	<39	U		<21	U		34			<27	U		<42	U		<16	U		<9	U					<12	U	
		VMP-3-22-112210	11/22/2010	<44	U		<24	U		36			<31	U		<48	U		<18	U		<10	U					<14	U	
		VMP-3-22-020811	2/8/2011	14	J		<12	U		26			<15	U		<24	U		<8.9	U		<5.1	U					<6.8	U	
		VMP-3-22-041511	4/15/2011	<120	U		<64	U		26	J		<83	U		<130	U		<48	U		<27	U		24000			<150	U	
		VMP-3-22-080611	8/6/2011	0.075	J		<0.1	U		0.22			<0.13	U		<0.2	U		<0.077	U		<0.044	U		18			<0.23	U	
		VMP-3-22-110811	11/8/2011	0.037		J	<0.0045	U		0.003			<0.0059	U		<0.009	U		<0.0034	U		<0.0019	U		0.13			0.0051	J	
		VMP-3-22-013012	1/30/2012	0.033			<0.018	U		0.12			<0.023	U		<0.036	U		<0.014	U		<0.0077	U		1.9			0.018	J	
		VMP-3-22-042012	4/20/2012	0.025			<0.0045	J	U	0.028			<0.0059	U		<0.009	U		<0.034	J	U	<0.0019	U		0.052			0.025		
		VMP-3-22-072312	7/23/2012	0.051			<0.0051	J	U	0.0093			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		0.012			0.0079	J	
		VMP-3-22-101812	10/18/2012	0.034	J		<0.0077	U		0.14			<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		0.018			0.013	J	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<72	U		<39	U		210			<51	U		<78	U		<30	U		<17	U					<22	U	
		VMP-3-31.5-112210	11/22/2010	<50	U		<27	U		180			<36	U		<55	U		<20	U		<12	U					<16	U	
		VMP-3-31.5-020911	2/9/2011	<48	U		<26	U		100			<34	U		<52	U		<20	U		<11	U					<15	U	
		VMP-3-31.5-041411	4/14/2011	<400	U		<220	U		100	J		<280	U		<430	U		<160	U		<92	U		68000			<490	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<400	U		<220	U		89	J		<280	U		<430	U		<160	U		<92	U		63000			<490	U	
		VMP-3-31.5-080211	8/2/2011	<890	U		<490	U		86	J		<630	U		<970	U		<360	U		<210	U		98000			<1100	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<520	U		<280	U		110	J		<370	U		<570	U		<210	U		<120	U		91000			<650	U	
		VMP-3-31.5-110811	11/8/2011	180		J	<11	U		5.9	J		<15	U		<23	U		<8.5	U		<4.8	U		3300			5	J	
		VMP-3-31.5-012712	1/27/2012	12	J	J	<290	U		27	J	J	<93	U		<570	U		<54	U		<31	U		13000		J	<160	U	
		VMP-3-31.5-041912	4/19/2012	<230	U		<120	U		<76	U		<160	U		<250	U		<93	U		<53	U		44000			<280	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<220	U		<120	U		<73	U		<150	U		<240	U		<89	U		<51	U		47000			<270	U	
		VMP-3-31.5-072312	7/23/2012	<54	U		<30	U		<18	U		<38	U		<59	U		<22	U		<13	U		14000			<67	U	
		VMP-3-31.5-101912	10/19/2012	<4.4	U		<2.4	U		0.32	J		<3.1	U		<4.8	U		<1.8	U		<1	U		100			<5.4	U	
	39 ft	VMP-3-39-101912	10/19/2012	<440	U		<240	U		47	J		<310	U		<480	U		<180	U		<100	U		22000			<540	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.68	U		<0.37	U		0.27			<0.48	U		<0.74	U		<0.28	U		<0.16	U					<0.21	U	
		VMP-4-5-112210	11/22/2010	<26	U		<14	U		41			<18	U		<28	U		<10	U		<6	U					<7.9	U	
		VMP-4-5-021411	2/14/2011	<1.5	U		<0.82	U		2.3			<1	U		<1.6	U		<0.61	U		<0.35	U					<0.46	U	
		VMP-4-5-041911	4/19/2011	<69	U		<38	U		22	J		<48	U		<75	U		<28	U		<16	U		7000			<86	U	
		VMP-4-5-080311	8/3/2011	<0.15	U		<0.08	U		0.1			<0.1	U		<0.16	U		<0.06	U		<0.034	U		1.3			<0.18	U	
		VMP-4-5-110911	11/9/2011	0.03		J	<0.0044	U		0.0018	J		<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		0.011			0.0024	J	
		VMP-4-5-013012	1/30/2012	0.12	J	J	<0.23	U		0.23		J	<0.29	U		<0.45	U		<0.17	U		<0.097	U		14		J	<0.52	U	
		VMP-4-5-042512	4/25/2012	0.04			<0.0056	U		0.31			<0.0073	U		<0.011	U		<0.042	U		<0.0024	U		0.071			0.035		
		VMP-4-5-072512	7/25/2012	0.12			<0.0055	U		0.28			<0.0072	U		<0.011	U		<0.042	U		<0.0024	U		0.012			0.034		
		VMP-4-5-101812	10/18/2012	0.022	J		<0.008	U		0.31			<0.01	U		<0.016	U		<0.06	U		<0.0034	U		0.0038	J		0.007	J	
	12 ft	VMP-4-12-082510	8/25/2010	<12	U		<6.5	U		28			<8.4	U		<13	U		<4.9	U		<2.8	U					<3.7	U	
		VMP-4-12-112310	11/23/2010	<12	U		<6.7	U		15			<8.6	U		<13	U		<5	U		<2.8	U					<3.8	U	
		VMP-4-12-021411	2/14/2011	<3.1	U		<1.7	U		5.2			<2.2	U		<3.3	U		<1.2	U		<0.72	U					<0.96	U	
		VMP-4-12-041911	4/19/2011	<59	U		<32	U		38			<42	U		<65	U		<24	U		<14	U		7200			<74	U	
		VMP-4-12-080311	8/3/2011	<6.8	U		<3.7	U		8.4			<4.8	U		<7.4	U		<2.8	U		<1.6	U		1400			<8.5	U	
		VMP-4-12-080311-Dup	8/3/2011	<14	U		<7.5	U		6.4			<9.7	U		<15	U		<5.6	U		<3.2	U		1200			<17	U	
		VMP-4-12-110911	11/9/2011	15		J	<1.1	U		0.46	J		<1.5	U		<2.3	U		<0.85	U		<0.48	U		100			<2.6	U	
		VMP-4-12-013012	1/30/2012	<4.2	U		<2.3	U		3.4			<3	U		<4.6	U		<1.7	U		<0.99	U		280			<5.3	U	
		VMP-4-12-041812	4/18/2012	0.04			<0.0052	U		0.068			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		0.0056	J		0.058		
		VMP-4-12-072312	7/23/2012	0.066	J		<0.025	U		0.02			<0.033	U		<0.05	U		<0.19	U		<0.011	U		0.19			<0.057	U	
		VMP-4-12-101812	10/18/2012	0.038			<0.0078	U		0.004	J		<0.01	U		<0.016	U		<0.059	U		<0.0034	U		0.011	J		0.0043	J	
		VMP-4-12-101812-Dup	10/18/2012	0.035	J		<0.008	U		0.0038	J		<0.01	U		<0.016	U		<0.06	U		<0.0034	U		0.011	J		<0.018	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<14	U		<7.5	U		490		J	<9.7	U		<15	U		<5.6	U		<3.2	U					<4.3	U	
		VMP-4-23.5-112310	11/23/2010	<140	U		<75	U		510			<97	U		<150	U		<56	U		<32	U					<43	U	
		VMP-4-23.5-021411	2/14/2011	<5	U		<2.7	U		340		J	<3.6	U		<5.5	U		<2	U		<1.2	U					<1.6	U	
		VMP-4-23.5-042011	4/20/2011	<320	U		<170	U		440			<220	U		<350	U		<130	U		<74	U		72000			<400	U	
		VMP-4-23.5-042011-DUP	4/20/2011	58	J		<170	U		410			<220	U		<350	U		<130	U		<74	U		70000			<400	U	
		VMP-4-23.5-080611	8/6/2011	<13	U		<7.3	U		280			<9.4	U		<14	U		<5.4	U		<3.1	U		56000			<16	U	
		VMP-4-23.5-110911	11/9/2011	1800		J	<22	U		89			<28	U		<43	U		<16	U		<9.3	U		25000			<50	U	
		VMP-4-23.5-013012	1/30/2012	<85	U		<46	U		570		J	<60	U		<92	U		<35	U		<20	U		16000		J	<100	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<59	U		<32	U		420		J	<42	U		<65	U		<24	U		<14	U		15000			<74	U	
		VMP-4-23.5-041912	4/19/2012	5.4	J		<10	U		44			<13	U		<20	U		<7.6	U		<4.3	U		1500			<23	U	
		VMP-4-23.5-072312	7/23/2012	<8.9	U		<4.9	U		56			<6.3	U		<9.7	U		<3.6	U		<2.1	U		770			<11	U	
		VMP-4-23.5-101812	10/18/2012	<9.8	U		<5.3	U		1.6	J		<6.9	U		<11	U		<4	U		<2.3	U		150			<12	U	
	39 ft	VMP-4-39-042111	4/21/2011	<400	U		<220	U		470			<280	U		<430	U		<160	U		<93	U		69000			<500	U	
		VMP-4-39-041912	4/19/2012	<9.5	U		<5.2	U		67			<6.7	U		<10	U		<3.9	U		<2.2	U		3900			<12	U	
		VMP-4-39-072312	7/23/2012	<14	U		<7.8	U		50		J	<10	U		<16	U		<5.9	U		<3.3	U		1800		J	<18	U	
		VMP-4-39-101812	10/18/2012	<180	U		<98	U		28	J		<130	U		<200	U		<74	U		<42	U		3900			<220	U	
		VMP-4-39-101812-Dup	10/18/2012	<160	U		<89	U		26	J		<120	U		<180	U		<67	U		<38	U		3900			<200	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<25	U		<14	U		7.6	J		<18	U		<27	U		<10	U		<5.8	U					<7.8	U	
		VMP-5-5-112210	11/22/2010	<6.1	U		<3.3	U		8.6			<4.3	U		<6.7	U		<2.5	U		<1.4	U					<1.9	U	
		VMP-5-5-021611	2/16/2011	<0.039	U		<0.021	U		0.024		J	<0.028	U		<0.042	U		<0.016	U		<0.0091	U					<0.012	U	
		VMP-5-5-042111	4/21/2011	<0.12	U		<0.068	U		0.88			<0.088	U		<0.14	U		<0.051	U		<0.029	U		0.064	J		<0.16	U	
		VMP-5-5-080511	8/5/2011	0.084			<0.0065	U		0.015			<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U		0.86			0.028		
		VMP-5-5-111111	11/11/2011	0.15			<0.0048	U		0.03			<0.0062	U		<0.0096	U		<0.0036	U		<0.002	U		0.05			0.0024	J	
		VMP-5-5-013012	1/30/2012	0.18			<0.048	U		9.1			<0.063	U		<0.097	U		<0.036	U		<0.021	U		2.4			0.076	J	
		VMP-5-5-041112	4/11/2012	0.04			<0.0047	U		0.017			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		<0.0087	U		0.051		
		VMP-5-5-071312	7/13/2012	0.24			<0.0052	U		0.0028	J		<0.0068	U		<0.01	U		<0.039	U	UJ	<0.0022	U		<0.0096	U		0.016		
		VMP-5-5-101212	10/12/2012	0.047			<0.0065	U		0.0043			<0.0084	U		<0.013	U		<0.049	U		<0.0028	U		0.0047	J		0.0032	J	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	7.6	J		<6.8	U		11			<8.8	U		<14	U		<5.1	U		<2.9	U					<3.9	U	
		VMP-5-12.5-112310	11/23/2010	<0.63	U		<0.34	U		0.54			<0.44	U		<0.68	U		<0.26	U		<0.15	U					<0.19	U	
		VMP-5-12.5-021611	2/16/2011	<1.9	U		<1	U		<0.63	U		<1.3	U		<2	U		<0.77	U		<0.44	U					<0.58	U	
		VMP-5-12.5-042111	4/21/2011	<0.13	U		<0.073	U		0.71			<0.094	U		<0.14	U		<0.055	U		<0.031	U		0.11	J		<0.17	U	
		VMP-5-12.5-080611	8/6/2011	<12	U		<6.4	U		4.6			<8.3	U		<13	U		<4.8	U		<2.7	U		7600			<15	U	
		VMP-5-12.5-111111	11/11/2011	0.0085			<0.0046	U		0.0064			<0.0059	U		<0.0091	U		<0.0034	J	U	<0.0019	U		0.0035	J		0.0022	J	
		VMP-5-12.5-013012	1/30/2012	0.066			<0.015	U		2.4			<0.019	U		<0.03	U		<0.011	U		<0.0063	U		0.8			0.054		
		VMP-5-12.5-041112	4/11/2012	0.026			<0.0045	U		0.033			<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		<0.0083	U		0.035		
		VMP-5-12.5-071212	7/12/2012	0.048			<0.0053	U	UJ	0.0018	J		<0.0069	U		<0.011	U		<0.04	U		<0.0023	U		<0.0098	U		0.004	J	
		VMP-5-12.5-101112	10/11/2012	0.02	J		<0.013	U		0.015			<0.016	U		<0.025	U		<0.095	U		<0.0054	U		<0.023	U		<0.029	U	
	31 ft	VMP-5-31-090910	9/9/2010	<52	U		<28	U		200			<37	U		<57	U		<21	U		<12	U					<16	U	
		VMP-5-31-112310	11/23/2010	<33	U		<18	U		180			<23	U		<36	U		<13	U		<7.6	U					<10	U	
		VMP-5-31-021611	2/16/2011	<13	U		<7.1	U		74			<9.2	U		<14	U		<5.4	U		<3	U					<4.1	U	
		VMP-5-31-042111	4/21/2011	<200	U		<110	U		66			<140	U		<210	U		<80	U		<46	U		34000			<240	U	
		VMP-5-31-080611	8/6/2011	<110	U		<60	U		64			<78	U		<120	U		<45	U		<26	U		38000			<140	U	
		VMP-5-31-111111	11/11/2011	<56	U		<30	U		12	J		<39	U		<60	U		<23	U		<13	U		19000			<69	U	
		VMP-5-31-013012	1/30/2012	4.4	J		<15	U		10			<20	U		<31	U		<12	U		<6.6	U		6900			<35	U	
		VMP-5-31-041112	4/11/2012	0.03	J		<0.049	U		0.08			<0.064	U		<0.099	U		<0.037	U		<0.021	U		4.3			0.023	J	
		VMP-5-31-071212	7/12/2012	0.11			<0.0052	U	UJ	0.0044			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		0.26			0.014		
		VMP-5-31-101112	10/11/2012	0.082			<0.0073	U		0.0078			<0.0094	U		<0.014	U		<0.055	U		<0.0031	U		0.075			0.0042	J	
	40 ft	VMP-5-40-042111	4/21/2011	<200	U		<110	U		64	J		<140	U		<220	U		<84	U		<48	U		27000			<250	U	
		VMP-5-40-013012	1/30/2012	6	J		<32	U		6.8	J		<42	U		<65	U		<24	U		<14	U		6400			<74	U	
		VMP-5-40-041212	4/12/2012	0.053	J		<0.048	U		0.15			<0.063	U		<0.097	U		<0.036	U		<0.021	U		21			0.055	J	
		VMP-5-40-071212	7/12/2012	0.49			<0.052	U	UJ	<0.032	U		<0.067	U		<0.1	U		<0.39	U		<0.022	U		0.63			<0.12	U	
		VMP-5-40-101112	10/11/2012	0.028	J		<0.0077	U		0.011			<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		0.27			<0.017	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<2.1	U		<1.1	U		1			<1.5	U		<2.3	U		<0.85	U		<0.49	U					<0.65	U	
		VMP-6-5-111610	11/16/2010	<13	U		<7.1	U		9			<9.2	U		<14	U		<5.4	U		<3	U					<4.1	U	
		VMP-6-5-020711	2/7/2011	0.014			<0.0062	U		0.0033	J		<0.008	U		<0.012	U		<0.0046	U		<0.0026	U					0.0015	J	
		VMP-6-5-040811	4/8/2011	0.055			<0.013	U		2.4			<0.017	U		<0.027	U		<0.01	U		<0.0057	U		0.083			<0.03	U	
		VMP-6-5-080411	8/4/2011	<0.64	U		<0.35	U		0.74			<0.45	U		<0.69	U		<0.26	U		<0.15	U		160			<0.79	U	
		VMP-6-5-110911	11/9/2011	0.015		J	<0.0042	U		0.015			<0.0054	U		<0.0083	U		<0.0031	U		<0.0018	U		0.028			0.0027	J	
		VMP-6-5-013112	1/31/2012	0.13			<0.049	U		0.096			<0.064	U		<0.098	U		<0.037	U		<0.021	U		6.2			0.035	J	
		VMP-6-5-041212	4/12/2012	0.02	J		<0.0052	U		0.01			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		<0.0096	U		0.0029	J	
		VMP-6-5-071612	7/16/2012	0.075			<0.0052	U		0.0097			<0.0067	U		<0.01	U		<0.039	U	UJ	<0.0022	U		<0.0096	U		0.008	J	
		VMP-6-5-101012	10/10/2012	0.041			<0.0071	U		0.003	J		<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		<0.016	U	
	10 ft	VMP-6-10-090810	9/8/2010	<2.3	U		<1.2	U		2.9		J	<1.6	U		<2.5	U		<0.92	U		<0.53	U					<0.7	U	
		VMP-6-10-111710	11/17/2010	0.012	J		<0.0067	U		0.0053			0.0025	J		<0.013	U		<0.005	J	U	<0.0028	U					0.0022	J	
		VMP-6-10-020711	2/7/2011	0.0038	J		<0.0065	U		0.0084			<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U					<0.0037	U	
		VMP-6-10-040811	4/8/2011	0.54			<0.16	U		2			<0.2	U		<0.31	U		<0.12	U		<0.067	U		<0.29	U		0.12	J	
		VMP-6-10-080411	8/4/2011	<2	U		<1.1	U		1.7			<1.4	U		<2.2	U		<0.83	U		<0.47	U		400			<2.5	U	
		VMP-6-10-111011	11/10/2011	0.017		J	<0.0043	U		0.012			<0.0056	U		<0.0087	U		<0.0033	U		<0.0018	U		0.033			0.0026	J	
		VMP-6-10-013112	1/31/2012	<1.4	U		<3.1	U		0.51		J	<1	U		<6.2	U		<0.58	U		<0.33	U		120		J	<1.8	U	
		VMP-6-10-041212	4/12/2012	0.039			<0.005	U		0.007			<0.0065	U		<0.01	U		<0.038	U		<0.0022	U		<0.0093	U		0.0057	J	
		VMP-6-10-071612	7/16/2012	0.051			<0.0068	U		0.0081			<0.0088	J	U	<0.014	U		<0.051	U	UJ	<0.0029	U		<0.012	U		0.0096	J	
		VMP-6-10-101112	10/11/2012	0.0085	J		<0.0075	U		0.0066			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<15	U		<8.3	U		29			<11	U		<17	U		<6.2	U		<3.6	U					<4.7	U	
		VMP-6-31.5-111710	11/17/2010	<24	U		<13	U		30			<17	U		<26	U		<9.8	U		<5.6	U					<7.4	U	
		VMP-6-31.5-020711	2/7/2011	13	J		<12	U		30			<16	U		<25	U		<9.4	U		<5.4	U					<7.1	U	
		VMP-6-31.5-041111	4/11/2011	12	J		<9.7	U		18			<12	U		<19	U		<7.3	U		<4.1	U		1200			<22	U	
		VMP-6-31.5-080411	8/4/2011	<13	U		<7.2	U		11			<9.3	U		<14	U		<5.4	U		<3.1	U		1100			<16	U	
		VMP-6-31.5-111011	11/10/2011	110		J	<11	U		8.8			<14	U		<22	U		<8.3	U		<4.7	U		1300			6.4	J	
		VMP-6-31.5-013112	1/31/2012	<8.1	U		<18	U		8.1		J	<5.7	U		<35	U		<3.3	U		<1.9	U		700		J	<10	U	
		VMP-6-31.5-041212	4/12/2012	0.12	J		<0.59	U		<0.36	U		<0.77	U		<1.2	U		<0.44	U		<0.25	U		32			<1.4	U	
		VMP-6-31.5-071612	7/16/2012	0.098			<0.0094	U		0.016			<0.012	U		<0.019	U		<0.07	U	UJ	<0.004	U		0.05			0.012	J	
		VMP-6-31.5-101112	10/11/2012	0.014	J		<0.0073	U		0.0049			<0.0094	U		<0.014	U		<0.055	U		<0.0031	U		0.018			<0.017	U	
	39 ft	VMP-6-39-041111	4/11/2011	12	J		<12	U		16			<15	U		<23	U		<8.7	U		<4.9	U		1200			3.6	J	
		VMP-6-39-013112	1/31/2012	<8.1	U		<18	U		8.3		J	<5.7	U		<35	U		<3.3	U		<1.9	U		900		J	<10	U	
		VMP-6-39-041212	4/12/2012	<0.8	U		<0.43	U		1.7			<0.56	U		<0.87	U		<0.33	U		<0.18	U		53			<0.99	U	
		VMP-6-39-071612	7/16/2012	0.052	J		<0.02	U		0.02			<0.026	U		<0.041	U		<0.15	U	UJ	<0.0087	U		0.069			<0.046	U	
		VMP-6-39-071612-Dup	7/16/2012	0.057	J		<0.021	U		0.016			<0.027	U		<0.041	U		<0.15	U	UJ	<0.0088	U		0.062			<0.047	U	
		VMP-6-39-101112	10/11/2012	0.03	J		<0.014	U		0.0082	J		<0.018	U		<0.028	U		<0.1	U		<0.006	U		<0.026	U		<0.032	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	0.026			<0.0068	U		0.012			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U					0.006		
		VMP-7-5-111910	11/19/2010	0.014			<0.0062	U		0.001	J		<0.008	U		<0.012	U		<0.0046	U		<0.0026	U					0.0022	J	
		VMP-7-5-020711	2/7/2011	0.027			<0.0067	U		0.041			<0.0086	U		<0.013	U		<0.005	U		<0.0028	U					<0.0038	U	
		VMP-7-5-040711	4/7/2011	0.0076	J		<0.0094	U		1.6			<0.012	U		<0.019	U		<0.0071	U		<0.004	U		0.012	J		<0.021	U	
		VMP-7-5-080211	8/2/2011	<1.7	U		<0.93	U		1.3			<1.2	U		<1.9	U		<0.7	U		<0.4	U		110			<2.1	U	
		VMP-7-5-111011	11/10/2011	0.0078	J		<0.0044	U		0.005			<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		<0.0081	U		0.0013	J	
		VMP-7-5-111011-DUP	11/10/2011	0.01			<0.0042	U		0.0048			<0.0054	U		<0.0083	U		<0.0031	U		<0.0018	U		<0.0076	U		<0.0095	U	
		VMP-7-5-013112	1/31/2012	0.026			<0.0045	U		0.0055			<0.0059	U		<0.009	U		<0.0034	U		<0.0019	U		<0.0083	U		0.045		
		VMP-7-5-041212	4/12/2012	0.045			<0.0049	U		0.0089			<0.0064	U		<0.0098	U		<0.037	U		<0.0021	U		<0.009	U		0.046		
		VMP-7-5-073112	7/31/2012	0.073			<0.013	U		0.12			<0.016	U		<0.025	U		<0.095	U		<0.0054	U		0.013	J		0.027	J	
		VMP-7-5-101012	10/10/2012	0.037			<0.0077	U		0.0024	J		<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		<0.014	U		<0.017	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.27	U		<0.15	U		0.15			<0.19	U		<0.3	U		<0.11	U		<0.064	U					<0.085	U	
		VMP-7-13.5-111910	11/19/2010	<1.9	U		<1	U		1.3		J	<1.4	U		<2.1	U		<0.78	U		<0.44	U					<0.59	U	
		VMP-7-13.5-020711	2/7/2011	0.011	J		<0.0064	U		0.027			<0.0083	U		<0.013	U		<0.0048	U		<0.0027	U					<0.0036	U	
		VMP-7-13.5-040711	4/7/2011	0.012	J		<0.011	U		1.7			<0.014	U		<0.022	U		<0.0084	U		<0.0048	U		0.016	J		<0.025	U	
		VMP-7-13.5-080311	8/3/2011	<2.3	U		<1.2	U		1.1			<1.6	U		<2.5	U		<0.94	U		<0.53	U		67			<2.8	U	
		VMP-7-13.5-111011	11/10/2011	0.053		J	<0.0041	U		0.0037			<0.0053	U		<0.0082	U		<0.0031	U		<0.0017	U		0.31			0.0018	J	
		VMP-7-13.5-013112	1/31/2012	0.026	J	J	<0.23	U		0.048		J	<0.075	U		<0.46	U		<0.043	U		<0.025	U		1.5		J	0.024	J	J
		VMP-7-13.5-013112-DUP	1/31/2012	0.059	J	J	<0.24	U		0.088		J	<0.077	U		<0.47	U		<0.044	U		<0.025	U		1.5		J	0.02	J	J
		VMP-7-13.5-041212	4/12/2012	0.02	J		<0.0047	U		0.022			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		0.0062	J		0.016		
		VMP-7-13.5-041212-DUP	4/12/2012	0.019	J		<0.005	U		0.019			<0.0065	U		<0.01	U		<0.037	U		<0.0021	U		<0.0092	U		0.016		
		VMP-7-13.5-072012	7/20/2012	0.041			<0.0048	J	U	0.0087			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		<0.0089	U		0.012		
		VMP-7-13.5-101012	10/10/2012	0.065			<0.0071	U		0.0058			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		0.0066	J	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<3.9	U		<2.1	U		86		J	<2.8	U		<4.2	U		<1.6	U		<0.91	U					<1.2	U	
		VMP-7-29.5-111910	11/19/2010	<5.9	U		<3.2	U		62		J	<4.2	U		<6.4	U		<2.4	U		<1.4	U					<1.8	U	
		VMP-7-29.5-020711	2/7/2011	<6.1	U		<3.3	U		60			<4.3	U		<6.7	U		<2.5	U		<1.4	U					<1.9	U	
		VMP-7-29.5-040711	4/7/2011	<1.5	U		<0.81	U		40		J	<1	U		<1.6	U		<0.61	U		<0.35	U		94		J	<1.8	U	
		VMP-7-29.5-080311	8/3/2011	<3.5	U		<1.9	U		40			<2.5	U		<3.8	U		<1.4	U		<0.82	U		200			<4.4	U	
		VMP-7-29.5-111111	11/11/2011	38			<3.8	U		16			<4.8	U		<7.5	U		<2.8	U		<1.6	U		110			4.9	J	
		VMP-7-29.5-020112	2/1/2012	<1.4	U		<3	U		15		J	<0.98	U		<6	U		<0.57	U		<0.32	U		61		J	<1.7	U	
		VMP-7-29.5-041312	4/13/2012	0.033			<0.0047	U		0.0078			<0.0061	U		<0.0094	U		0.0013	J		<0.002	U		0.023			0.021		
		VMP-7-29.5-072012	7/20/2012	0.036			<0.0048	U		0.031			<0.0063	U		<0.0097	U		<0.036	U		0.0013	J		0.0094			0.0061	J	
		VMP-7-29.5-072012-Dup	7/20/2012	0.03			<0.0048	J	U	0.032			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		0.0086	J		0.0067	J	
		VMP-7-29.5-101012	10/10/2012	0.064			<0.0075	U		0.0098			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.0052	J		0.0031	J	
	38 ft	VMP-7-38-020711	2/7/2011	1.8	J		<4.5	U		57			<5.8	U		<8.9	U		<3.4	U		<1.9	U					<2.6	U	
		VMP-7-38-040711	4/7/2011	<2.1	U		<1.1	U		24		J	<1.5	U		<2.3	U		<0.85	U		<0.49	U		120		J	<2.6	U	
		VMP-7-38-020112	2/1/2012	<2	U		<4.3	U		15		J	<1.4	U		<8.7	U		<0.82	U		<0.46	U		63		J	<2.5	U	
		VMP-7-38-042512	4/25/2012	0.015	J		<0.0047	U		0.48			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		0.019			0.015		
		VMP-7-38-042512-Dup	4/25/2012	0.056			<0.0047	U		0.54			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		0.026			0.023		
		VMP-7-38-101112	10/11/2012	0.021	J		<0.007	U		0.012			<0.009	U		<0.014	U		<0.052	U		<0.003	U		<0.013	U		<0.016	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.043			0.0018	J	J	0.021			<0.009	U		<0.014	U		0.008			<0.003	U					0.015		
		VMP-8-5-111810	11/17/2010	0.012			<0.006	U		<0.0037	U		0.0012	J		<0.012	U		<0.0045	U		<0.0026	U					0.0017	J	
		VMP-8-5-021011	2/10/2011	0.0072	J		<0.0064	U		0.014			<0.0083	U		<0.013	U		<0.0048	U		<0.0027	U					<0.0036	U	
		VMP-8-5-040711	4/7/2011	0.055			<0.0071	U		1.2			<0.0092	U		<0.014	U		<0.0054	U		<0.003	U		<0.013	U		0.0024	J	
		VMP-8-5-072711	7/27/2011	0.037			<0.0077	U		0.11			<0.0099	U		<0.015	U		<0.0057	U		<0.0033	U		<0.014	U		0.042		
		VMP-8-5-110311	11/3/2011	0.037			<0.0044	U		0.0072			<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		0.0057	J		0.0027	J	
		VMP-8-5-012312	1/23/2012	0.0082	J		<0.0055	U		0.023			<0.0071	U		<0.011	U		<0.0041	U		<0.0023	U		0.0072	J		0.0073	J	
		VMP-8-5-041012	4/10/2012	0.014	J		0.00086	J		0.0025	J		<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		<0.0091	U		0.0029	J	
		VMP-8-5-071312	7/13/2012	0.052			<0.0042	U	UJ	0.00084	J		<0.0054	U		<0.0083	U		<0.031	U		<0.0018	U		<0.0076	U		0.0086	J	
		VMP-8-5-073112	7/31/2012	0.078			<0.0053	U		0.064			<0.0069	U		<0.011	U		<0.04	U		<0.0023	U		<0.0098	U		0.047		
		VMP-8-5-100412	10/4/2012	0.019	J		<0.0071	U		0.0031	J		<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		<0.016	U	
		VMP-8-5-100412-Dup	10/4/2012	0.027	J		<0.0068	U		0.0038	J		<0.0088	U		<0.014	U		<0.051	U		<0.0029	U		<0.012	U		<0.016	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	0.04			<0.0063	U		0.015		J	<0.0081	U		<0.012	U		0.0068			<0.0027	U					0.0061		
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	0.041			<0.0064	U		0.012		J	<0.0083	U		<0.013	U		0.0079			<0.0027	U					0.0097		
		VMP-8-9.5-111810	11/17/2010	0.0095	J		<0.0063	U		0.0025	J		0.0017	J		<0.012	U		<0.0047	U		<0.0027	U					0.0013	J	
		VMP-8-9.5-021011	2/10/2011	0.015			<0.0065	U		<0.004	U		<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U					<0.0037	U	
		VMP-8-9.5-040711	4/7/2011	0.0089	J		<0.0071	U		0.93			<0.0092	U		<0.014	U		<0.0054	U		<0.003	U		<0.013	U		0.0023	J	
		VMP-8-9.5-072711	7/27/2011	0.035			<0.0055	U		0.19			<0.0071	U		<0.011	U		<0.0041	U		<0.0024	U		0.012			0.038		
		VMP-8-9.5-110311	11/3/2011	0.021			<0.0043	U		0.0053			<0.0056	U		<0.0087	U		<0.0033	U		<0.0018	U		0.0058	J		0.002	J	
		VMP-8-9.5-012312	1/23/2012	0.026			<0.0052	U		0.0026	J		<0.0068	U		<0.01	U		<0.0039	U		<0.0022	U		<0.0096	U		0.0023	J	
		VMP-8-9.5-041012	4/10/2012	0.012	J		<0.0049	U		0.0046			0.00078	J		<0.0099	U		<0.037	U		<0.0021	U		<0.0091	U		<0.011	U	
		VMP-8-9.5-071312	7/13/2012	0.011	J		<0.0048	U	UJ	<0.003	U		<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		<0.0089	U		<0.011	U	
		VMP-8-9.5-071312-Dup	7/13/2012	0.0094	J		<0.0046	U	UJ	<0.0028	U		<0.006	U		<0.0092	U		<0.035	U		<0.002	U		<0.0085	U		<0.01	U	
		VMP-8-9.5-100412	10/4/2012	0.035	J		<0.0078	U		0.021			<0.01	U		<0.016	U		<0.059	U		<0.0034	U		<0.014	U		<0.018	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	0.02			<0.0068	U		0.013			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U					0.0044		
		VMP-8-23.5-111910	11/19/2010	0.033			<0.0065	U		0.0029	J		<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U					0.0068		
		VMP-8-23.5-021011	2/10/2011	<0.013	U		<0.007	U		0.0079			<0.009	U		<0.014	U		<0.0052	U		<0.003	U					<0.004	U	
		VMP-8-23.5-040711	4/7/2011	0.01	J		<0.0065	U		1.2		J	<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U		<0.012	U		<0.015	U	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0093	J		<0.01	U		0.73		J	<0.013	U		<0.021	U		<0.0078	U		<0.0044	U		<0.019	U		<0.024	U	
		VMP-8-23.5-081011	8/10/2011	0.043			<0.0068	J	U	0.18			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U		0.02			0.012	J	
		VMP-8-23.5-110611	11/6/2011	0.019			<0.0049	U		0.0031			<0.0064	U		<0.0099	J	U	<0.0037	U		<0.0021	U		<0.0091	U		0.0053	J	
		VMP-8-23.5-012312	1/23/2012	0.0068	J		<0.0055	U		0.0068			<0.0071	U		<0.011	U		<0.0041	U		<0.0023	U		<0.01	U		0.0039	J	
		VMP-8-23.5-041012	4/10/2012	0.032			0.00082	J		0.0056			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		<0.0089	U		<0.011	U	
		VMP-8-23.5-071312	7/13/2012	0.025			<0.0053	U	UJ	0.0028	J		<0.0069	U		<0.011	U		<0.04	U		<0.0023	U		<0.0098	U		<0.012	U	
		VMP-8-23.5-100412	10/4/2012	0.036			<0.0075	U		0.018			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	0.029			<0.0059	U		0.0088			<0.0076	U		<0.012	U		<0.0044	U		<0.0025	U					0.0053		
		VMP-9-5-111910	11/19/2010	0.014			<0.0062	U		<0.0038	U		<0.008	U		<0.012	U		<0.0046	U		<0.0026	U					<0.0035	U	
		VMP-9-5-020811	2/8/2011	0.013			<0.0057	U		<0.0035	U		<0.0074	U		<0.011	U		<0.0043	U		<0.0024	U					0.0015	J	
		VMP-9-5-040611	4/6/2011	0.026	J		<0.016	U		0.11			<0.02	U		<0.031	U		<0.012	U		<0.0067	U		<0.029	U		0.0029	J	
		VMP-9-5-080211	8/2/2011	<0.56	U		<0.3	U		<0.19	U		<0.4	U		<0.61	U		<0.23	U		<0.13	U		0.23	J		<0.7	U	
		VMP-9-5-110411	11/4/2011	0.014			<0.0045	J	U	0.0021	J		<0.0059	U		<0.009	U		<0.0034	U		<0.0019	U		0.0059	J		0.0048	J	
		VMP-9-5-012612	1/26/2012	0.012			<0.0038	U		0.011			<0.005	U		<0.0077	U		<0.0029	U		<0.0016	U		0.11			0.0086	J	
		VMP-9-5-041112	4/11/2012	0.011	J		<0.0046	U		0.0075			<0.006	U		<0.0092	U		<0.035	U		<0.002	U		<0.0085	U		0.0014	J	
		VMP-9-5-071312	7/13/2012	0.074			<0.0049	U	UJ	0.067			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		0.0055	J		0.024		
		VMP-9-5-101012	10/10/2012	0.026	J		<0.0075	U		0.0037	J		<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.24	U		<0.13	U		0.16			<0.17	U		<0.26	U		<0.1	U		<0.057	U					<0.076	U	
		VMP-9-11.5-111910	11/19/2010	<0.71	U		<0.38	U		0.11	J		<0.5	U		<0.77	U		<0.29	U		<0.16	U					<0.22	U	
		VMP-9-11.5-020911	2/9/2011	0.0074	J		<0.007	U		<0.0043	U		<0.009	U		<0.014	U		<0.0052	U		<0.003	U					<0.004	U	
		VMP-9-11.5-020911-DUP	2/9/2011	0.0088	J		<0.0054	U		<0.0033	U		<0.007	U		<0.011	U		<0.004	U		<0.0023	U					<0.0031	U	
		VMP-9-11.5-040611	4/6/2011	0.026	J		<0.02	U		0.025			<0.026	U		<0.041	U		<0.015	U		<0.0087	U		0.009	J		0.0044	J	
		VMP-9-11.5-080211	8/2/2011	<0.84	U		<0.46	U		0.48			<0.59	U		<0.91	U		<0.34	U		<0.19	U		4.8			<1	U	
		VMP-9-11.5-110411	11/4/2011	0.017			<0.0045	U		0.013			<0.0059	U		<0.009	U		<0.0034	U		<0.0019	U		0.061			0.0087	J	
		VMP-9-11.5-012612	1/26/2012	0.024			<0.004	U		0.0024	J		<0.0052	U		<0.008	U		<0.003	U		<0.0017	U		0.026			0.015		
		VMP-9-11.5-041112	4/11/2012	0.012	J		<0.0047	U		0.0074			0.0012	J		<0.0094	U		<0.036	U		<0.002	U		<0.0087	U		0.0026	J	
		VMP-9-11.5-071312	7/13/2012	0.089			<0.0053	U	UJ	0.017			<0.0069	U		<0.011	U		<0.04	U		<0.0023	U		<0.0098	U		0.023		
		VMP-9-11.5-101012	10/10/2012	0.051			<0.0071	U		0.0066			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		<0.016	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<1.9	U		<1	U		3.2			<1.4	U		<2.1	U		<0.78	U		<0.44	U					<0.59	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<2	U		<1.1	U		3.3			<1.4	U		<2.2	U		<0.84	U		<0.48	U					<0.64	U	
		VMP-9-25.5-111910	11/19/2010	<2.2	U		<1.2	U		1.9			<1.5	U		<2.4	U		<0.89	U		<0.51	U					<0.68	U	
		VMP-9-25.5-020911	2/9/2011	<1.2	U		<0.65	U		0.079	J		<0.84	U		<1.3	U		<0.49	U		<0.28	U					<0.37	U	
		VMP-9-25.5-040811	4/8/2011	0.69			<0.33	U		0.82			<0.43	U		<0.66	U		<0.25	U		<0.14	U		2.4			<0.75	U	
		VMP-9-25.5-080211	8/2/2011	<1.3	U		<0.73	U		0.68		J	<0.94	U		<1.4	U		<0.55	U		<0.31	U		35		J	<1.7	U	
		VMP-9-25.5-110711	11/7/2011	1.4			<0.64	U		0.19	J		<0.83	U		0.18	J		<0.48	U		<0.28	U		4.4			1	J	
		VMP-9-25.5-110711-DUP	11/7/2011	1.6			<0.56	U		0.19	J		<0.72	U		0.13	J		<0.42	U		<0.24	U		6.1			1.3		
		VMP-9-25.5-012612	1/26/2012	<0.3	U		<0.67	U		0.24		J	<0.22	U		<1.3	U		<0.12	U		<0.071	U		10		J	<0.38	U	
		VMP-9-25.5-041112	4/11/2012	0.011	J		0.00074	J		0.0038			0.0022	J		<0.0094	U		<0.036	U		<0.002	U		<0.0087	U		0.0022	J	
		VMP-9-25.5-071312	7/13/2012	0.1			<0.0051	U		0.062			<0.0066	U		<0.01	U	UJ	<0.0022	U		<0.0022	U		<0.0094	U		0.032		
		VMP-9-25.5-071312-Dup	7/13/2012	0.1			<0.0049	U		0.061			<0.0064	U		<0.0099	U	UJ	<0.0021	U		<0.0021	U		<0.0091	U		0.032		
		VMP-9-25.5-101012	10/10/2012	0.019	J		<0.0068	U		0.005			<0.0088	U		<0.014	U		<0.051	U		<0.0029	U		<0.012	U		<0.016	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<2	U		<1.1	U		0.89			<1.4	U		<2.2	U		<0.81	U		<0.46	U					<0.62	U	
		VMP-9-38.5-040811	4/8/2011	2.4	J		<1.4	U		4			<1.9	U		<2.9	U		<1.1	U		<0.62	U		39			<3.3	U	
		VMP-9-38.5-012612	1/26/2012	<0.4	U		<0.87	U		1.1		J	<0.28	U		<1.7	U		<0.16	U		<0.093	U		12		J	<0.5	U	
		VMP-9-38.5-041112	4/11/2012	0.019	J		<0.0042	U		0.01			0.0012	J		<0.0083	U		<0.031	U		<0.0018	U		<0.0076	U		0.0026	J	
		VMP-9-38.5-071312	7/13/2012	0.11			<0.0055	U		0.21			<0.0071	U		<0.011	U		<0.041	J	UJ	<0.0023	U		0.0066	J		0.041		
		VMP-9-38.5-101012	10/10/2012	0.019	J		<0.02	U		1.2			<0.026	U		<0.041	U		<0.15	U		<0.0087	U		0.23			<0.046	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	0.042			<0.007	U		0.0048			<0.009	U		<0.015	U		<0.005	U		<0.003	U					0.0044		
		VMP-18-8.5-090710	9/7/2010	0.013			<0.0067	J	U	0.093			0.0027	J		<0.013	U		<0.005	J	U	<0.0028	U					0.0032	J	
		VMP-18-8.5-111910	11/19/2010	0.0077	J		<0.0056	U		<0.0034	U		<0.0072	U		<0.011	U		<0.0042	U		<0.0024	U					0.0013	J	
		VMP-18-8.5-020711	2/7/2011	0.18		J	<0.0062	U		0.0024	J		<0.008	U		<0.012	U		<0.0046	U		<0.0026	U					0.0049		
		VMP-18-8.5-020711-DUP	2/7/2011	0.012		J	<0.0059	U		0.0013	J		<0.0077	U		<0.012	U		<0.0044	U		<0.0025	U					0.0016	J	
		VMP-18-8.5-040711	4/7/2011	0.015			<0.0066	J	U	0.084			<0.0086	U		<0.013	U		<0.005	U		<0.0028	U		0.0069	J		0.0023	J	
		VMP-18-8.5-072811	7/28/2011	0.075			<0.0071	U		0.096			<0.0092	U		<0.014	U		<0.0054	U		<0.003	U		<0.013	U		0.025		
		VMP-18-8.5-110711	11/7/2011	0.015			<0.0046	U		0.00097	J		<0.006	U		<0.0092	U		<0.0035	U		<0.002	U		<0.0085	U		0.0065	J	
		VMP-18-8.5-012312	1/23/2012	0.0081	J		<0.005	U		0.0012	J		<0.0065	U		<0.01	U		<0.0038	U		<0.0021	U		<0.0092	U		0.007	J	
		VMP-18-8.5-041012	4/10/2012	0.056			<0.0052	U		0.039			<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		0.0047	J		0.071		
		VMP-18-8.5-071212	7/12/2012	0.079			<0.0051	U	UJ	0.12			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		0.0046	J		0.032		
		VMP-18-8.5-100912	10/9/2012	0.1			<0.0068	U		0.0064			<0.0088	U		<0.014	U		<0.051	U		<0.0029	U		<0.012	U		0.013	J	
VMP-19	5 ft	VMP-19-5	6/18/2010	0.042			<0.007	U		0.02			<0.009	U		<0.014	U		<0.005	U		<0.003	U					0.0054		
		VMP-19-5-090110	9/1/2010	0.044			<0.0067	U		0.019			<0.0086	U		<0.013	U		<0.005	U		<0.0028	U					0.013		
		VMP-19-5-111510	11/15/2010	0.02			<0.0071	U		0.0092			<0.0092	U		<0.014	U		<0.0054	J	U	<0.003	U					0.0013	J	
		VMP-19-5-020411	2/4/2011	0.0091	J		<0.0063	J	U	0.015			<0.0081	U		<0.012	U		<0.0047	U		<0.0027	U					<0.0036	U	
		VMP-19-5-040711	4/7/2011	0.01	J		<0.007	U		0.76			<0.009	U		<0.014	U		<0.0052	U		<0.003	U		0.0052	J		0.0017	J	
		VMP-19-5-080911	8/9/2011	0.07		J	<0.0077	J	U	0.48			<0.0099	U		<0.015	J	U	<0.0057	U		<0.0033	U		0.068		J	0.017	J	
		VMP-19-5-080911-DUP	8/9/2011	0.054		J	<0.0073	J	U	0.41			<0.0094	U		<0.014	U		<0.0055	U		<0.0031	U		0.043		J	0.018		
		VMP-19-5-110811	11/8/2011	0.018			<0.0051	U		0.0066			<0.0066	U		<0.01	U		<0.0038	U		<0.0022	U		0.015			0.0036	J	
		VMP-19-5-012612	1/26/2012	0.0089			<0.0044	U		0.001	J		<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		0.0061	J		0.0012	J	
		VMP-19-5-041012	4/10/2012	0.031			<0.0051	U		0.028			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		0.0037	J		0.06		
		VMP-19-5-071112	7/11/2012	0.085			<0.0058	U	UJ	0.082			<0.0075	U		<0.012	U		<0.043	U		<0.0025	U		<0.011	U		0.03		
		VMP-19-5-100912	10/9/2012	0.032	J		<0.0077	U		0.0033	J		<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		<0.014	U		<0.017	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.032			<0.0063	U		0.27			<0.0081	U		<0.012	U		<0.0047	U		<0.0027	U					0.0026	J	
		VMP-20-5-041511	4/15/2011	0.019	J		<0.069	U		0.037	J		<0.089	U		<0.14	U		<0.052	U		<0.029	U		17			<0.16	U	
		VMP-20-5-072511	7/25/2011	0.036			<0.0073	U	UJ	0.038			<0.0094	U		<0.014	U		<0.0055	U		<0.0031	U		<0.013	U		0.016		
		VMP-20-5-110111	11/1/2011	0.017			<0.0042	U		0.015			<0.0054	U		<0.0083	U		<0.0031	U		<0.0018	U		0.004	J		0.0037	J	
		VMP-20-5-012312	1/23/2012	0.012	J		<0.02	U		0.19			<0.026	U		<0.04	U		<0.015	U		<0.0086	U		0.14			0.0054	J	
		VMP-20-5-041012	4/10/2012	0.07			<0.0045	U		0.0043			<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		0.0037	J		0.031		
		VMP-20-5-071112	7/11/2012	0.031			<0.006	U	UJ	<0.0037	U		<0.0078	U		<0.012	U		<0.045	U		<0.0026	U		<0.011	U		0.0039	J	
		VMP-20-5-073112	7/31/2012	0.15			<0.0051	U		0.048			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		<0.0093	U		0.023		
		VMP-20-5-100412	10/4/2012	0.021	J		<0.0075	U		0.0082			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	
	10 ft	VMP-20-10-031411	3/14/2011	0.021			<0.0063	U		0.21			0.0023	J		<0.012	U		<0.0047	U		<0.0027	U					0.0035	J	
		VMP-20-10-041511	4/15/2011	0.015	J		<0.063	U		0.046			<0.081	U		<0.12	U		<0.047	U		<0.027	U		1.1			<0.14	U	
		VMP-20-10-072511	7/25/2011	0.022			<0.0067	U	UJ	0.015			0.0015	J		<0.013	U		<0.005	U		<0.0028	U		<0.012	U		0.018		
		VMP-20-10-110111	11/1/2011	0.023			<0.0044	U		0.0018	J		<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		<0.0081	U		0.0019	J	
		VMP-20-10-012312	1/23/2012	0.0099			<0.0046	U		0.045			<0.006	U		<0.0092	U		<0.0035	U		<0.002	U		<0.0085	U		0.0029	J	
		VMP-20-10-041012	4/10/2012	0.086			<0.0044	U		0.0043			<0.0057	U		<0.0088	U		<0.033	U		<0.0019	U		0.0033	J		0.06		
		VMP-20-10-071112	7/11/2012	0.035			<0.0051	U	UJ	0.0033			<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		<0.0093	U		0.0077	J	
		VMP-20-10-100412	10/4/2012	0.017	J		<0.007	U		0.005			<0.009	U		<0.014	U		<0.052	U		<0.003	U		<0.013	U		<0.016	U	
	25 ft	VMP-20-25-031411	3/14/2011	0.01	J		<0.0062	U		0.35			<0.008	U		<0.012	U		<0.0046	U		<0.0026	U					0.0011	J	
		VMP-20-25-041511	4/15/2011	<0.13	U		<0.071	U		<0.044	U		<0.092	U		<0.14	U		<0.054	U		<0.03	U		0.58			<0.16	U	
		VMP-20-25-072611	7/26/2011	<0.87	U		<0.48	U	UJ	0.18	J		<0.62	U		<0.95	U		<0.36	U		<0.2	U		<0.87	U		<1.1	U	
		VMP-20-25-110511	11/5/2011	0.042			<0.0043	U		0.004			<0.0056	U		<0.0087	J	U	<0.0033	U		<0.0018	U		<0.008	U		0.0085	J	
		VMP-20-25-012312	1/23/2012	0.0091			<0.0048	U		0.0042			<0.0063	U		<0.0097	U		<0.0036	U		<0.0021	U		<0.0089	U		0.0042	J	
		VMP-20-25-041012	4/10/2012	0.055			<0.0045	U		0.004			<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		0.0074	J		0.039		
		VMP-20-25-041012-Dup	4/10/2012	0.054			<0.0046	U		0.0041			<0.006	U		<0.0092	U		<0.035	U		<0.002	U		0.0067	J		0.037		
		VMP-20-25-071112	7/11/2012	0.034			<0.0052	U	UJ	0.001	J		<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		<0.0096	U		0.006	J	
		VMP-20-25-100412	10/4/2012	0.033	J		<0.0077	U		0.0014	J		<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		<0.014	U		<0.017	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	44			<1.9	U		0.28	J		<2.4	U		<3.7	U		<14	U		<0.8	U		1.5	J		<4.2	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<4.4	U		<2.4	U		<1.5	U		<3.1	U		<4.8	U		<1.8	U		<1	U					<1.4	U	
		VMP-21-5-020911-DUP	2/9/2011	<7.6	U		<4.1	U		<2.5	U		<5.3	U		<8.2	U		<3.1	U		<1.8	U					<2.3	U	
		VMP-21-5-041311	4/13/2011	0.0092	J		0.001	J		0.84			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U		0.41			0.0021	J	
		VMP-21-5-072511	7/25/2011	0.029			<0.0071	U	UJ	0.019			<0.0092	U		<0.014	U		<0.0054	U		<0.003	U		<0.013	U		0.02		
		VMP-21-5-110111	11/1/2011	0.017			<0.0059	U		0.011			<0.0076	U		<0.012	U		<0.0044	U		<0.0025	U		<0.011	U		0.0039	J	
		VMP-21-5-012312	1/23/2012	0.008	J		<0.005	U		0.00067	J		<0.0065	U		<0.01	U		<0.0038	U		<0.0021	U		<0.0092	U		0.0034	J	
		VMP-21-5-012312-DUP	1/23/2012	0.0092			<0.0046	U		0.00091	J		<0.006	U		<0.0092	U		<0.0035	U		<0.002	U		<0.0085	U		0.0034	J	
		VMP-21-5-042412	4/24/2012	0.023	J		<0.0095	U		0.58			<0.012	U		<0.019	U		<0.071	U		<0.004	U		0.025			0.01	J	
		VMP-21-5-071012	7/10/2012	0.12			<0.0055	U	UJ	0.003	J		<0.0071	U		<0.011	U		<0.041	U		<0.0023	U		<0.01	U		0.02		
		VMP-21-5-100412	10/4/2012	0.023	J		<0.008	U		0.0018	J		<0.01	U		<0.016	U		<0.06	U		<0.0034	U		<0.015	U		0.006	J	
	10 ft	VMP-21-10-021011	2/10/2011	<4	U		<2.2	U		<1.3	U		<2.8	U		<4.3	U		<1.6	U		<0.93	U					<1.2	U	
		VMP-21-10-041311	4/13/2011	0.14	J		<0.27	U		0.066	J		<0.36	U		<0.55	U		<0.2	U		<0.12	U		7.6			0.046	J	
		VMP-21-10-072511	7/25/2011	0.083			<0.015	U	UJ	0.012			<0.02	U		<0.03	U		<0.011	J	U	<0.0065	U		<0.028	U		0.01	J	
		VMP-21-10-110111	11/1/2011	0.015			<0.0044	U		0.0023	J		<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		<0.0081	U		0.0043	J	
		VMP-21-10-012312	1/23/2012	0.022			<0.005	U		0.017			<0.0065	U		<0.01	U		<0.0038	U		<0.0021	U		<0.0092	U		0.0041	J	
		VMP-21-10-040912	4/9/2012	0.028			<0.0045	U		0.041			<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		0.008	J		0.0077	J	
		VMP-21-10-071012	7/10/2012	0.055			<0.0052	U	UJ	0.0018	J		<0.0067	U		<0.01	U		<0.039	U		<0.0022	U		<0.0096	U		0.0065	J	
		VMP-21-10-100412	10/4/2012	0.024	J		<0.0073	U		0.0076			<0.0094	U		<0.014	U		<0.055	U		<0.0031	U		<0.013	U		0.0065	J	
	25 ft	VMP-21-25-021011	2/10/2011	<11	U		<6	U		1.7	J		<7.8	U		<12	U		<4.5	U		<2.6	U					<3.4	U	
		VMP-21-25-041411	4/14/2011	12	J		<21	U		<13	U		<27	U		<42	U		<16	U		<9	U		5400			<48	U	
		VMP-21-25-041411-DUP	4/14/2011	5.2	J		<21	U		<13	U		<27	U		<42	U		<16	U		<9	U		5400			<48	U	
		VMP-21-25-072611	7/26/2011	<12	U		<6.8	U	UJ	1.3	J		<8.8	U		<14	U		<5.1	U		<2.9	U					<16	U	
		VMP-21-25-110511	11/5/2011	5	J		<4.3	U		0.5	J		<5.6	U		<8.7	U		<3.3	U		<1.8	U		290			4.1	J	
		VMP-21-25-012412	1/24/2012	<0.11	J	U	<0.24	U		0.027	J		<0.078	U		<0.48	U		<0.045	U		<0.026	U		0.047	J		<0.14	U	
		VMP-21-25-040912	4/9/2012	0.09			<0.0047	U		0.048			<0.0061	U		<0.0094	U		<0.036	U	UJ	<0.002	U		<0.0087	U		<0.011	U	
		VMP-21-25-071112	7/11/2012	0.028			<0.0047	U	UJ	0.00098	J		<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		0.011			0.004	J	
		VMP-21-25-100412	10/4/2012	0.027	J		<0.0075	U		0.0078			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.0075	J		0.0074	J	
	33 ft	VMP-21-33-021011	2/10/2011	<11	U		<6	U		1.8	J		<7.8	U		<12	U		<4.5	U		<2.6	U					<3.4	U	
		VMP-21-33-041411	4/14/2011	8.8	J		<20	U		<12	U		<26	U		<41	U		<15	U		<8.7	U		5200			<46	U	
		VMP-21-33-110511	11/5/2011	1.2	J		<0.99	U		0.14	J		<1.3	U		0.27	J		<0.74	U		<0.42	U		20			0.93	J	
		VMP-21-33-012412	1/24/2012	<0.26	U		<0.57	U		0.13		J	<0.18	U		<1.1	U		<0.11	U		<0.06	U		0.48		J	<0.32	U	
		VMP-21-33-042412	4/24/2012	0.011	J		<0.0048	U		0.41			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		0.086			0.0055	J	
		VMP-21-33-071112	7/11/2012	0.044			<0.0051	U	UJ	0.0011	J		<0.0066	U		<0.01	U		<0.038	U		<0.0022	U		0.019			0.007	J	
		VMP-21-33-100412	10/4/2012	0.026	J		<0.0073	U		0.012			<0.0094	U		<0.014	U		<0.055	U		<0.0031	U		0.006	J		0.0074	J	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.24	U		<0.13	U		0.029	J		<0.17	U		<0.26	U		<0.1	U		<0.057	U					<0.076	U	
		VMP-22-5-041811	4/18/2011	<0.12	U		<0.065	U		0.024	J		<0.084	U		<0.13	U		<0.049	U		<0.028	U		0.17			<0.15	U	
		VMP-22-5-072611	7/26/2011	0.026			<0.0077	U	UJ	0.12			<0.0099	U		<0.015	U		<0.0057	J	U	<0.0033	U		0.22			0.017	J	
		VMP-22-5-110111	11/1/2011	0.032			<0.0043	U		0.012			<0.0056	U		<0.0087	U		<0.0033	U		<0.0018	U		<0.008	U		0.0063	J	
		VMP-22-5-012412	1/24/2012	0.021		J	<0.0046	U		0.11		J	<0.0059	U		<0.0091	U		<0.0034	U		<0.002	U		0.024		J	0.0047	J	J
		VMP-22-5-040912	4/9/2012	0.033			<0.0051	U		0.0085			<0.0066	U		<0.01	U		0.039	J	J	<0.0022	U		0.014			<0.012	U	
		VMP-22-5-070912	7/9/2012	0.034			<0.0056	U	UJ	0.0012	J		<0.0073	U		<0.011	U		<0.042	U		<0.0024	U		<0.01	U		0.0037	J	
		VMP-22-5-100312	10/3/2012	0.031			<0.0065	U		0.0025	J		<0.0084	U		<0.013	U		<0.049	U		<0.0028	U		0.0051	J		0.0044	J	
		VMP-22-5-100312-Dup	10/3/2012	0.04			<0.0059	U		0.0045			<0.0077	U		<0.012	U		<0.044	U		<0.0025	U		0.0072	J		0.0079	J	
	10 ft	VMP-22-10-021111	2/11/2011	<0.12	U		<0.063	U		0.021	J		<0.082	U		<0.13	U		<0.047	U		<0.027	U					<0.036	U	
		VMP-22-10-041811	4/18/2011	<0.12	U		<0.068	U		0.12			<0.087	U		<0.13	U		<0.051	U		<0.029	U		0.086	J		<0.15	U	
		VMP-22-10-072611	7/26/2011	0.015		J	<0.0078	U	UJ	0.03			<0.01	U		<0.016	U		<0.0059	J	U	<0.0034	U		0.018		J	0.011	J	
		VMP-22-10-072611-DUP	7/26/2011	0.052		J	<0.0092	U	UJ	0.03			<0.012	U		<0.018	U		<0.0069	U		<0.0039	U		0.059		J	0.023		
		VMP-22-10-110211	11/2/2011	0.013			<0.0044	U		0.006			<0.0057	U		<0.0088	U		<0.0033	U		<0.0019	U		<0.0081	U		0.0033	J	
		VMP-22-10-012412	1/24/2012	0.0061	J		<0.005	U		0.02			<0.0065	U		<0.01	U		<0.0038	U		<0.0021	U		<0.0092	U		0.011	J	
		VMP-22-10-040912	4/9/2012	0.031			<0.005	U		0.0068			<0.0065	U		<0.01	U		<0.037	U	UJ	<0.0021	U		<0.0092	U		<0.011	U	
		VMP-22-10-070912	7/9/2012	0.017	J		<0.0056	U	UJ	<0.0035	U		<0.0073	U		<0.011	U		<0.042	U		<0.0024	U		<0.01	U		<0.013	U	
		VMP-22-10-070912-Dup	7/9/2012	0.021	J		<0.0055	U	UJ	<0.0034	U		<0.0071	U		<0.011	U		<0.041	U		<0.0023	U		<0.01	U		<0.012	U	
		VMP-22-10-100312	10/3/2012	0.03			<0.0063	U		0.015			<0.0081	U		<0.012	U		<0.047	U		<0.0027	U		0.0048	J		<0.014	U	
	18 ft	VMP-22-18-021111	2/11/2011	<2	U		<1.1	U		0.67	J		<1.4	U		<2.2	U		<0.82	U		<0.47	U					<0.63	U	
		VMP-22-18-041811	4/18/2011	1.1	J		<4.6	U		1	J		<6	U		<9.3	U		<3.5	U		<2	U		620			<11	U	
		VMP-22-18-072611	7/26/2011	<4.4	U		<2.4	U	UJ	0.42	J		<3.1	U		<4.8	U		<1.8	U		<1	U		470			<5.4	U	
		VMP-22-18-110511	11/5/2011	0.012			<0.0047	U		0.009			<0.0061	J	U	<0.0094	J	U	<0.0036	U		<0.002	U		0.012			0.0058	J	
		VMP-22-18-012412	1/24/2012	<0.08	J	U	<0.17	U		0.012	J	J	<0.056	U		<0.35	U		<0.033	U		<0.018	U		0.045	J	J	<0.099	U	
		VMP-22-18-040912	4/9/2012	0.022	J		<0.0052	U		0.0062			0.0017	J		<0.01	U		<0.039	U	UJ	<0.0022	U		<0.0096	U		<0.012	U	
		VMP-22-18-070912	7/9/2012	0.036			<0.0055	U	UJ	0.029			<0.0071	U		<0.011	U		<0.041	U		<0.0023	U		<0.01	U		<0.012	U	
		VMP-22-18-100412	10/4/2012	0.021	J		<0.0075	U		0.0036	J		<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	
	38 ft	VMP-22-38-041811	4/18/2011	<26	U		<14	U		<8.8	U		<18	U		<28	U		<11	U		<6.1	U		3900			<32	U	
		VMP-22-38-012512	1/25/2012	<0.08	U		<0.043	U		0.04			<0.056	U		<0.087	U		<0.033	U		<0.018	U		0.28			<0.099	U	
		VMP-22-38-040912	4/9/2012	0.039			<0.005	U		0.012			0.0048	J		<0.01	U		<0.038	U	UJ	<0.0022	U		<0.0093	U		<0.012	U	
		VMP-22-38-070912	7/9/2012	0.05			<0.0053	U	UJ	0.074			0.0039	J		<0.011	U		<0.04	U		<0.0023	U		<0.0098	U		0.0055	J	
		VMP-22-38-100412	10/4/2012	0.02	J		<0.0078	U		0.0096			0.0028	J		<0.016	U		<0.059	U		<0.0034	U		<0.014	U		<0.018	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	0.01	J		<0.0068	U		0.023			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U					0.0012	J	
		VMP-23-5-042111	4/21/2011	0.024	J		<0.059	U		<0.036	U		<0.077	U		<0.12	U		<0.044	U		<0.025	U		<0.11	U		<0.14	U	
		VMP-23-5-072711	7/27/2011	0.062			<0.0068	U		0.18			<0.0088	U		<0.014	U		<0.0051	U		<0.0029	U		0.024			0.072		
		VMP-23-5-110211	11/2/2011	0.035			<0.0048	U		0.016			<0.0063	U		<0.0097	U		<0.0036	U		<0.0021	U		<0.0089	U		<0.011	U	
		VMP-23-5-012512	1/25/2012	0.019			<0.0041	U		0.023			0.0015	J		<0.0082	U		<0.0031	U		<0.0017	U		0.002	J		0.0048	J	
		VMP-23-5-040912	4/9/2012	0.032			<0.0049	U		0.0089			<0.0064	U		<0.0099	U		<0.037	U	UJ	<0.0021	U		<0.0091	U		0.024		
		VMP-23-5-070912	7/9/2012	0.1			<0.0044	U	UJ	0.0024	J		<0.0057	U		<0.0088	U		0.0017	J		<0.0019	U		0.0039	J		0.01		
		VMP-23-5-100312	10/3/2012	0.05			<0.0075	U		0.011			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		0.006	J	
	10 ft	VMP-23-10-021511	2/15/2011	0.009	J		0.0012	J		0.0014	J		0.0023	J		<0.014	U		<0.0053	U		<0.003	U					<0.004	U	
		VMP-23-10-042111	4/21/2011	<0.13	U		<0.071	U		0.28			<0.092	U		<0.14	U		<0.054	U		<0.03	U		1.7			<0.16	U	
		VMP-23-10-072711	7/27/2011	<0.012	U		<0.0065	U		<0.004	U		<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U		<0.012	U		<0.015	U	
		VMP-23-10-110211	11/2/2011	0.029			<0.0047	U		0.021			<0.0061	U		<0.0094	U		<0.0036	U		<0.002	U		<0.0087	U		0.0083	J	
		VMP-23-10-012512	1/25/2012	0.0099			<0.004	U		0.068			<0.0052	U		<0.008	U		<0.003	U		<0.0017	U		0.0094			0.0033	J	
		VMP-23-10-040912	4/9/2012	0.025			<0.005	U		0.002	J		<0.0065	U		<0.01	U		<0.038	U	UJ	<0.0022	U		<0.0093	U		0.0068	J	
		VMP-23-10-040912-Dup	4/9/2012	0.043			<0.0051	U		0.0041			0.0021	J		<0.01	U		<0.038	U	UJ	<0.0022	U		0.0072	J		0.012		
		VMP-23-10-070912	7/9/2012	0.065			<0.004	U	UJ	0.0014	J		<0.0052	U		<0.008	U		<0.03	U		<0.0017	U		<0.0074	U		0.0061	J	
		VMP-23-10-100312	10/3/2012	0.064			<0.008	U		0.011			<0.01	U		<0.016	U		<0.06	U		<0.0034	U		0.0053	J		<0.018	U	
	25 ft	VMP-23-25-021511	2/15/2011	0.011	J		<0.0065	U		0.018			<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U					<0.0037	U	
		VMP-23-25-042111	4/21/2011	0.035	J		<0.067	U		1.6			<0.086	U		<0.13	U		<0.05	U		<0.028	U		8.2			<0.15	U	
		VMP-23-25-072711	7/27/2011	0.05			<0.0075	U		0.15			<0.0097	U		<0.015	U		<0.0056	U		<0.0032	U		<0.014	U		0.032		
		VMP-23-25-110511	11/5/2011	0.041			<0.0047	U		0.002	J		<0.0061	J	U	<0.0094	J	U	<0.0036	U		<0.002	U		<0.0087	U		0.014		
		VMP-23-25-012512	1/25/2012	0.0065	J		<0.0042	U		0.058			<0.0055	U		<0.0085	U		<0.0032	U		<0.0018	U		0.0046	J		0.0047	J	
		VMP-23-25-040912	4/9/2012	0.14			<0.0049	U		0.022			<0.0064	U		<0.0099	U		0.067	J	J	<0.0021	U		<0.0091	U		0.06		
		VMP-23-25-071012	7/10/2012	0.15			<0.0063	U	UJ	0.0027	J		<0.0082	U		<0.013	U		<0.047	U		<0.0027	U		<0.012	U		0.013	J	
		VMP-23-25-100312	10/3/2012	0.086			<0.0078	U		0.0095			<0.01	U		<0.016	U		<0.059	U		<0.0034	U		<0.014	U		0.0052	J	
	40 ft	VMP-23-40-071012	7/10/2012	0.18			<0.0053	U	UJ	0.0081			<0.0069	U		<0.011	U		0.0039	J		<0.0023	U		0.0065	J		0.016		
		VMP-23-40-100312	10/3/2012	0.09			<0.0073	U		0.018			<0.0094	U		<0.014	U		0.0046	J		<0.0031	U		<0.013	U		0.0041	J	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	0.019			<0.0073	U		0.019			<0.0094	U		<0.014	U		<0.0055	U		<0.0031	U					<0.0042	U	
		VMP-24-5-040811	4/8/2011	<0.14	U		<0.078	U		5			<0.1	U		<0.16	U		<0.058	U		<0.033	U		5.6			<0.18	U	
		VMP-24-5-072811	7/28/2011	0.047			<0.0073	U		0.093			<0.0094	U		<0.014	U		<0.0055	U		<0.0031	U		0.031			0.021		
		VMP-24-5-110211	11/2/2011	0.013			<0.0048	U		0.018			<0.0063	U		<0.0097	U		<0.0036	U		<0.0021	U		0.0063	J		<0.011	U	
		VMP-24-5-110211-DUP	11/2/2011	0.016			<0.0067	U		0.018			<0.0087	U		<0.013	U		<0.005	U		<0.0029	U		0.013			0.0048	J	
		VMP-24-5-012512	1/25/2012	0.009			<0.0042	U		0.0013	J		0.00082	J		<0.0083	U		<0.0031	U		<0.0018	U		0.0032	J		0.0045	J	
		VMP-24-5-040912	4/9/2012	0.11			<0.0049	U		0.024			<0.0064	U		<0.0099	U		<0.062	J	UJ	<0.0021	U		0.0049	J		0.038		
		VMP-24-5-071212	7/12/2012	0.052			<0.0047	U	UJ	0.043			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		<0.0087	U		0.012		
		VMP-24-5-101912	10/19/2012	0.025	J		<0.0073	U		0.081			<0.0095	U		<0.015	U		<0.055	U		<0.0031	U		0.0086	J		<0.017	U	
	10 ft	VMP-24-10-021711	2/17/2011	0.01	J		<0.007	U		1.4			<0.009	U		<0.014	U		<0.0052	U		<0.003	U					<0.004	U	
		VMP-24-10-041111	4/11/2011	0.012	J		<0.013	U		2.5			<0.017	U		<0.026	U		<0.0098	U		<0.0056	U		0.54			<0.03	U	
		VMP-24-10-072811	7/28/2011	0.048			<0.0071	U		0.11			<0.0092	U		<0.014	U		<0.0054	U		<0.003	U		<0.013	U		0.023		
		VMP-24-10-110211	11/2/2011	0.015			<0.0042	U		0.002	J		<0.0055	U		<0.0085	U		<0.0032	U		<0.0018	U		<0.0078	U		0.0069	J	
		VMP-24-10-012512	1/25/2012	0.0073			<0.004	U		0.00061	J		0.00074	J		<0.008	U		<0.003	U		<0.0017	U		<0.0074	U		0.0032	J	
		VMP-24-10-041012	4/10/2012	0.054			<0.0047	U		<0.0029	J	U	<0.0061	U		<0.0094	U		<0.036	J	UJ	<0.002	U		<0.0087	U		0.012		
		VMP-24-10-071212	7/12/2012	0.088			<0.0055	U	UJ	0.0078			<0.0071	U		<0.011	U		<0.041	U		<0.0023	U		<0.01	U		0.02		
		VMP-24-10-100912	10/9/2012	0.016	J		<0.0068	U		0.00099	J		<0.0088	U		<0.014	U		<0.051	U		<0.0029	U		<0.012	U		<0.016	U	
	22 ft	VMP-24-22-021711	2/17/2011	0.0064	J		<0.007	U		0.95			<0.009	U		<0.014	U		<0.0052	U		<0.003	U					<0.004	U	
		VMP-24-22-041111	4/11/2011	0.011	J		<0.0065	U		0.013			<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U		<0.012	U		<0.015	U	
		VMP-24-22-072811	7/28/2011	0.022			<0.0065	U		0.047			<0.0084	U		<0.013	U		<0.0049	U		<0.0028	U		<0.012	U		0.012	J	
		VMP-24-22-072811-Dup	7/28/2011	0.015			<0.0075	U		0.046			<0.0097	U		<0.015	U		<0.0056	U		<0.0032	U		<0.014	U		0.007	J	
		VMP-24-22-110611	11/6/2011	0.018			<0.0045	U		0.01			<0.0059	U		<0.009	J	U	<0.0034	U		<0.0019	U		<0.0083	U		0.0033	J	
		VMP-24-22-012512	1/25/2012	0.012			<0.0042	U		0.00079	J		0.00069	J		<0.0085	U		<0.0032	U		<0.0018	U		<0.0078	U		0.0046	J	
		VMP-24-22-041012	4/10/2012	0.067			<0.0046	U		0.0037			<0.006	U		<0.0092	U		<0.035	J	UJ	<0.002	U		0.0074	J		0.022		
		VMP-24-22-071212	7/12/2012	0.073			<0.0056	U	UJ	0.033			<0.0073	U		<0.011	U		<0.042	U		<0.0024	U		<0.01	U		0.014		
		VMP-24-22-100912	10/9/2012	0.014	J		<0.007	U		0.0013	J		<0.009	U		<0.014	U		<0.052	U		<0.003	U		<0.013	U		<0.016	U	
	34 ft	VMP-24-34-021711	2/17/2011	0.014			<0.007	U		0.0084			<0.009	U		<0.014	U		<0.0052	U		<0.003	U					0.0025	J	
		VMP-24-34-041111	4/11/2011	0.014			<0.0063	U		0.0072			<0.0081	U		<0.012	U		<0.0047	U		<0.0027	U		0.0031	J		<0.014	U	
		VMP-24-34-072811	7/28/2011	0.031			<0.0055	U		0.077			<0.0071	U		<0.011	U		<0.0041	U		<0.0024	U		<0.01	U		0.012	J	
		VMP-24-34-110611	11/6/2011	0.025			<0.0035	U		0.0095			<0.0046	U		<0.007	J	U	<0.0026	U		<0.0015	U		0.0033	J		0.016		
		VMP-24-34-012512	1/25/2012	0.0075	J		<0.0043	U		0.00051	J		0.001	J		<0.0087	U		<0.0033	U		<0.0018	U		<0.008	U		0.0065	J	
		VMP-24-34-041012	4/10/2012	0.06			<0.0048	U		0.037			<0.0063	U		<0.0097	U		<0.036	J	UJ	<0.0021	U		0.0037	J		0.015		
		VMP-24-34-071212	7/12/2012	0.074			<0.0046	U	UJ	0.1			<0.006	U		<0.0092	U		<0.035	U		<0.002	U		0.0033	J		0.021		
		VMP-24-34-100912	10/9/2012	0.015	J		<0.0071	U		0.0067			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		<0.016	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	0.057			<0.0049	U		0.29			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		<0.0091	U		0.027		
		VMP-31-5-072012	7/20/2012	0.17			<0.0049	U		0.0043			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		<0.0091	U		0.023		
		VMP-31-5-102612	10/26/2012	0.15			0.0022	J		0.015			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		0.23			0.045		
	10 ft	VMP-31-10-042512	4/25/2012	0.048			<0.0066	U		0.54			<0.0085	U		<0.013	U		<0.05	U		<0.0028	U		0.067			0.022		
		VMP-31-10-072612	7/26/2012	0.033			<0.005	U		0.0026	J		<0.0065	U		<0.01	U		0.0015	J	J	<0.0022	U		<0.0093	U		0.014		
		VMP-31-10-102612	10/26/2012	0.036			<0.0077	U		0.02			<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		0.1			0.0089	J	
	20 ft	VMP-31-20-101912	10/19/2012	<13	U		<7.1	U		0.64	J		<9.2	U		<14	U		<5.4	U		<3	U		2.3	J		<16	U	
	30 ft	VMP-31-30-042512	4/25/2012	<4.6	U		<10	U		9.9			<3.3	U		<5.1	U		<1.9	U		<1.1	U		970			<5.8	U	
		VMP-31-30-042512-Dup	4/25/2012	<4.6	U		<10	U		12			<3.3	U		<5.1	U		<1.9	U		<1.1	U		1100			<5.8	U	
		VMP-31-30-072012	7/20/2012	<2.3	U		<0.49	U		<0.3	U		<0.64	U		<0.99	U		<3.7	U		<0.21	U		52			<1.1	U	
		VMP-31-30-101912	10/19/2012	<0.82	U		<0.44	U		0.044	J		<0.58	U		<0.89	U		<0.33	U		<0.19	U		19			<1	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	0.095			<0.0048	U		0.047			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		<0.0089	U		0.029		
		VMP-32-5-072012	7/20/2012	0.12			<0.0043	U		0.091			<0.0056	U		<0.0087	U		<0.033	U		<0.0018	U		0.0068	J		0.0061	J	
		VMP-32-5-101812	10/18/2012	0.08			<0.0082	U		0.0037	J		<0.011	U		<0.016	U		<0.062	U		<0.0035	U		<0.015	U		0.0072	J	
	10 ft	VMP-32-10-041612	4/16/2012	0.034			<0.0044	U		0.0032			<0.0057	U		<0.0088	U		<0.033	U		<0.0019	U		0.007	J		0.024		
		VMP-32-10-072012	7/20/2012	0.087			<0.0051	U		0.044			<0.0066	U		<0.01	U		0.0032	J		<0.0022	U		<0.0093	U		0.0081	J	
		VMP-32-10-101812	10/18/2012	0.047			<0.0077	U		0.026			<0.0099	U		<0.015	U		<0.057	U		<0.0033	U		0.0045	J		<0.017	U	
	20 ft	VMP-32-20-041612	4/16/2012	0.49			<0.1	U		0.034	J		<0.13	U		<0.2	U		<0.76	U		<0.043	U		<0.19	U		<0.23	U	
		VMP-32-20-072012	7/20/2012	0.13			<0.0049	U		0.0085			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		<0.0091	U		0.0075	J	
		VMP-32-20-101812	10/18/2012	0.051			<0.0071	U		0.0014	J		<0.0092	U		<0.014	U		<0.054	U		<0.003	U		<0.013	U		<0.016	U	
	30 ft	VMP-32-30-041612	4/16/2012	<4.4	U		<2.4	U		35			<3.1	U		<4.8	U		<1.8	U		<1	U		1200			<5.5	U	
		VMP-32-30-072012	7/20/2012	<9.2	U		<5	U		16			<6.5	U		<10	U		<3.7	U		<2.1	U		500			<11	U	
		VMP-32-30-101812	10/18/2012	<0.52	U		<0.28	U		0.074	J		<0.37	U		<0.57	U		<0.21	U		<0.12	U		0.15	J		<0.65	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	0.041			<0.0044	U		0.026		J	<0.0057	U		<0.0088	U		<0.033	J	U	<0.0019	U		0.0099			0.027		
		VMP-42-10-041812-Dup	4/18/2012	0.034			<0.0045	U		0.02		J	<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		0.0064	J		0.026		
		VMP-42-10-071912	7/19/2012	0.053			<0.0049	U	UJ	0.038			<0.0064	U		<0.0099	U		<0.037	U		<0.0021	U		0.0052	J	J	0.03		
		VMP-42-10-101212	10/12/2012	0.017	J		<0.008	U		0.046			<0.01	U		<0.016	U		<0.06	U		<0.0034	U		<0.015	U		0.0067	J	
	20 ft	VMP-42-20-041812	4/18/2012	13			0.54	J		0.4	J		<3	U		<4.6	U		<17	U		<0.99	U		320			<5.3	U	
		VMP-42-20-071912	7/19/2012	0.028			<0.0048	U	UJ	0.038			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U		0.0073	J	J	0.016		
		VMP-42-20-101212	10/12/2012	0.013	J		<0.0071	U		0.0067			<0.0091	U		<0.014	U		<0.053	U		<0.003	U		<0.013	U		<0.016	U	
		VMP-42-20-101212-Dup	10/12/2012	0.024	J		<0.0071	U		0.008			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		0.0049	J		0.0054	J	
	30 ft	VMP-42-30-041912	4/19/2012	<8.9	U		<4.8	U		3.1			<6.3	U		<9.7	U		<3.6	U		<2.1	U		1400			<11	U	
		VMP-42-30-071912	7/19/2012	0.047		J	<0.0045	U	UJ	0.077		J	<0.0059	U		<0.009	U		<0.034	U		<0.0019	U		35	J	J	0.031		J
		VMP-42-30-101212	10/12/2012	0.031	J		<0.0075	U		0.011			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.56			0.005	J	
		VMP-42-30-101212-Dup	10/12/2012	0.021	J		<0.0075	U		0.0072			<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		0.54			<0.017	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	0.073			<0.0051	U		0.56			<0.0066	U		<0.01	U		0.007	J		<0.0022	U		0.011			0.045		
		VMP-43-10-071912	7/19/2012	0.097			<0.0097	U		0.044			<0.012	U		<0.019	U		<0.073	U		<0.0041	U		0.11	J	J	0.028		
		VMP-43-10-101612	10/16/2012	0.04			<0.0082	U		0.022			<0.011	U		<0.016	U		<0.062	U		<0.0035	U		<0.015	U		<0.019	U	
	20 ft	VMP-43-20-041612	4/16/2012	0.093			<0.049	U		0.091			<0.064	U		<0.099	U		<0.037	U		<0.021	U		15			0.019	J	
		VMP-43-20-071912	7/19/2012	0.1			<0.018	U		0.077			<0.023	U		<0.036	U		<0.13	U		<0.0076	U		0.36	J	J	0.024	J	
		VMP-43-20-101812	10/18/2012	0.29			<0.0068	U		0.0026	J		<0.0088	U		<0.014	U		<0.051	U		<0.0029	U		0.032			0.006	J	
	30 ft	VMP-43-30-042312	4/23/2012	0.05	J		<0.18	U		0.84			<0.059	U		<0.09	U		<0.034	U		<0.019	U		0.13			0.02	J	
		VMP-43-30-071912	7/19/2012	0.064			<0.0049	U		0.063			<0.0064	U		<0.0099	U		<0.037	J	U	<0.0021	U		0.072	J	J	0.017		
		VMP-43-30-101812	10/18/2012	0.02	J		<0.0071	U		0.29			0.0018	J		<0.014	U		<0.054	U		<0.003	U		0.0087	J		<0.016	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	0.38	J		<2.4	U		<1.5	U		<3.1	U		<4.7	U		<1.8	U		<1	U		110			<5.4	U	
		VMP-44-10-072012	7/20/2012	<1.4	U		<0.79	U		4.2		J	<1	U		<1.6	U		<0.6	U		<0.34	U		26		J	<1.8	U	
		VMP-44-10-081012	8/10/2012	<0.87	U		<0.47	U		3.3		J	<0.61	U		<0.94	U		<0.36	U		<0.2	U		18		J	<1.1	U	
		VMP-44-10-101212	10/12/2012	<2.7	U		<1.4	U		1.1			<1.9	U		<2.9	U		<1.1	U		<0.62	U		<2.7	U		<3.3	U	
	20 ft	VMP-44-20-041912	4/19/2012	0.53	J		<0.52	U		4.1			<0.67	U		<1	U		<0.39	U		<0.22	U		130			<1.2	U	
		VMP-44-20-072512	7/25/2012	<1.6	U		<0.89	U		3		J	<1.1	U		<1.8	U		<0.67	U		<0.38	U		75		J	<2	U	
		VMP-44-20-101212	10/12/2012	<5.4	U		<3	U		1.5	J		<3.8	U		<5.9	U		<2.2	U		<1.3	U		9.4			<6.7	U	
	30 ft	VMP-44-30-041912	4/19/2012	0.53	J		<0.3	U		32			<0.39	U		<0.6	U		<0.23	U		<0.13	U		77			<0.69	U	
		VMP-44-30-072512	7/25/2012	0.072	J		<0.051	U		14			<0.066	U		<0.1	U		<0.038	U		<0.022	U		7.4			0.012	J	
		VMP-44-30-072512-Dup	7/25/2012	0.06	J		<0.051	U		14			<0.066	U		<0.1	U		<0.038	U		<0.022	U		7.3			0.016	J	
		VMP-44-30-101512	10/15/2012	<1.4	U		<0.31	U		4			<0.4	U		<0.62	U		<2.3	U		<0.13	U		7			<0.71	U	
		VMP-44-30-101512-Dup	10/15/2012	<1.3	U		<0.29	U		3.9			<0.38	U		<0.58	U		<2.2	U		<0.12	U		6.9			<0.67	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						0.37			450000			11			6.9									6400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	0.029			<0.0047	U		0.052			<0.0061	U		<0.0094	U		<0.036	U		<0.002	U		<0.0087	U		0.023		
		VMP-45-10-071912	7/19/2012	0.047			<0.0048	U		0.005			<0.0063	U		<0.0097	U		<0.036	U		<0.0021	U			J	J	0.042		
		VMP-45-10-101512	10/15/2012	0.015	J		<0.0075	U		0.0036	J		<0.0097	U		<0.015	U		<0.056	U		<0.0032	U		<0.014	U		<0.017	U	
	20 ft	VMP-45-20-041912	4/19/2012	0.072	J		<0.3	U		0.63			<0.38	U		<0.59	U		<0.22	U		<0.13	U		0.72			<0.67	U	
		VMP-45-20-071912	7/19/2012	0.47			<0.092	U		0.018	J		<0.12	U		<0.18	U		<0.69	U		<0.039	U		0.21	J	J	0.032	J	
		VMP-45-20-101512	10/15/2012	0.016	J		<0.0071	U		0.0053			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		0.048			<0.016	U	
	30 ft	VMP-45-30-041912	4/19/2012	0.078	J	J	<0.2	U		<0.12	U		<0.26	U		<0.39	U		<0.15	U		<0.084	U		4.9		J	<0.45	U	
		VMP-45-30-071912	7/19/2012	<0.091	U		<0.049	U		<0.03	U		<0.064	U		<0.099	U		<0.037	U		<0.021	U		0.08	J		<0.11	U	
		VMP-45-30-101512	10/15/2012	0.025	J		<0.0071	U		0.0052			<0.0092	U		<0.014	U		<0.054	U		<0.003	U		0.034			0.0064	J	
		VMP-45-30-101512-Dup	10/15/2012	0.013	J		<0.0071	U		0.0051			<0.0091	U		<0.014	U		<0.053	U		<0.003	U		0.04			<0.016	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	0.0035	J		<0.027	U		<0.02	U		<0.036	U		<0.011	U		<0.021	U		<0.035	U		0.02			<0.033	U	
		VMP-1-5-111710	11/17/2010	<0.016	U		<0.032	U		<0.024	U		<0.044	U		<0.014	U		<0.025	U		<0.042	U		0.14			<0.04	U	
		VMP-1-5-020411	2/4/2011	<0.31	U		<0.64	U		<0.46	U		<0.86	U		<0.27	U		<0.49	U		<0.83	U		8.1			<0.78	U	
		VMP-1-5-041211	4/12/2011	0.004	J		<0.0083	U		<0.0061	J	U	0.0023	J		<0.014	U		<0.0064	U		<0.011	U		0.21			<0.01	U	
		VMP-1-5-080111	8/1/2011	0.0086	J		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.0083			<0.01	U	
		VMP-1-5-110311	11/3/2011	<44	U		<22	U		<16	U		<30	U		<37	U		<17	U		<29	U		4.8	J		<27	U	
		VMP-1-5-013012	1/30/2012	<0.91	U		<1.8	U		<1.3	U		<2.5	U		<3.1	U		<1.4	U		<2.4	U		23		J	<2.2	U	
		VMP-1-5-041312	4/13/2012	<0.011	J	U	<0.0056	U		<0.0041	J	U	<0.0076	U		<0.0094	U		<0.0044	U		<0.018	U		<0.0031	J	U	<0.0069	U	
		VMP-1-5-071612	7/16/2012	<0.011	J	U	<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0096	U		0.002	J		<0.019	U		0.036			<0.007	U	
		VMP-1-5-101112	10/11/2012	0.0076	J		<0.014	U		<0.01	U		<0.02	U		<0.024	U		<0.011	U		<0.047	U		0.13			<0.018	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	0.019	J		<0.081	U		<0.059	U		<0.11	U		<0.034	U		<0.063	U		<0.11	U		<0.044	U		<0.099	U	
		VMP-1-8.5-111710	11/17/2010	<0.0077	U		<0.016	U		<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		0.043			<0.019	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.0077	U		<0.016	U		<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		0.034			<0.019	U	
		VMP-1-8.5-020411	2/4/2011	<0.62	U		<1.2	U		<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		9.2			<1.5	U	
		VMP-1-8.5-041211	4/12/2011	0.0022	J		<0.011	U		<0.008	J	U	<0.015	U		<0.018	U		<0.0085	U		<0.014	U		0.067			<0.013	U	
		VMP-1-8.5-080111	8/1/2011	<2.2	U		<4.5	U		<3.3	U		<6.1	U		<7.6	U		<3.5	U		<5.9	U		7.1			<5.5	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<2.2	U		<4.4	U		<3.2	U		<6	U		<7.4	U		<3.4	U		<5.8	U		11			<5.4	U	
		VMP-1-8.5-110311	11/3/2011	7.3	J		<51	U		<37	U		<68	U		<85	U		<39	U		<66	U		11	J		<62	U	
		VMP-1-8.5-013012	1/30/2012	<5.4	U		<11	U		<8	U		<15	U		<18	U		<8.5	U		<14	U		19			<13	U	
		VMP-1-8.5-041612	4/16/2012	<0.013	J	U	<0.0067	U		<0.0049	U		<0.009	U		<0.011	U		<0.0052	U		<0.022	U		0.0093			0.0023	J	
		VMP-1-8.5-041612-Dup	4/16/2012	<0.013	J	U	<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		<0.005	U		<0.021	U		0.0076			0.0018	J	
		VMP-1-8.5-071612	7/16/2012	<0.011	J	U	<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0097	U		0.00077	J		<0.019	U		0.0032			<0.0071	U	
		VMP-1-8.5-101112	10/11/2012	<0.018	J	U	<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		<0.0069	U		<0.029	U		0.073			<0.011	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<1.4	U		<2.8	U		<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		130			<3.4	U	
		VMP-1-23.5-111810	11/17/2010	<0.0038	U		0.0013	J		<0.0057	U		<0.01	U		<0.0032	U		0.00066	J		<0.01	U		0.0082			<0.0095	U	
		VMP-1-23.5-020411	2/4/2011	<3.6	U		<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		150			<9	U	
		VMP-1-23.5-041211	4/12/2011	5.1	J		<12	U		<8.7	U		<16	U		4.4	J		<9.3	U		<16	U		3.2	J		<15	U	
		VMP-1-23.5-041211-DUP	4/12/2011	4.2	J		<15	U		<11	U		<20	U		<25	U		<12	U		<20	U		5.3	J		<18	U	
		VMP-1-23.5-080111	8/1/2011	6.2	J		<81	U		<59	U		<110	U		<140	U		<63	U		<110	U		110			<99	U	
		VMP-1-23.5-110611	11/6/2011	7.6	J		<19	U		6.6	J		<26	U		<32	U		<15	U		<25	U		38			<23	U	
		VMP-1-23.5-013112	1/31/2012	<19	U		<38	U		<28	U		<51	U		<63	U		<29	U		<50	U		32			<46	U	
		VMP-1-23.5-041612	4/16/2012	<1.5	U		<3	U		<2.2	U		<4.1	U		<5	U		<2.3	U		<3.9	U		6.6			<3.7	U	
		VMP-1-23.5-071612	7/16/2012	<19	U		<38	U		<28	U		<51	U		<64	U		<29	U		<50	U		37			<46	U	
		VMP-1-23.5-102412	10/24/2012	<38	U		<76	U		<55	U		<100	U		<130	U		<59	U		<100	U		23	J		<92	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	<0.012	U		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		0.0011	J		0.022			<0.0032	U		<0.0072	U	
		VMP-1-38.5-102612	10/26/2012	<2	U		<4.1	U		<3	U		<5.5	U		<6.9	U		<3.2	U		<5.4	U		20			<5	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<1.4	U		<2.8	U		<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		28			<3.4	U	
		VMP-2-5-111610	11/16/2010	<2	U		<4.2	U		<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		<2.3	U		<5.1	U	
		VMP-2-5-020411	2/4/2011	<0.54	U		<1.1	U		<0.79	U		<1.5	U		<0.46	U		<0.84	U		<1.4	U		4.9			<1.3	U	
		VMP-2-5-041311	4/13/2011	0.0038	J		<0.0087	U		<0.0064	J	U	<0.012	U		<0.015	U		<0.0068	U		<0.011	U		0.044			<0.011	U	
		VMP-2-5-080211	8/2/2011	<4.5	U		<9.1	U		<6.6	U		<12	U		<15	U		<7	U		<12	U		35			<11	U	
		VMP-2-5-110711	11/7/2011	<0.011	J	U	<0.0054	U		<0.0039	J	U	<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-2-5-012512	1/25/2012	2.3			<0.61	U		0.17	J		<0.83	U		<1	U		<0.47	U		<0.8	U		0.27	J		<0.74	U	
		VMP-2-5-042512	4/25/2012	0.0075	J		<0.024	U		0.0077	J		<0.032	U		<0.04	U		<0.019	U		<0.079	U		0.092			<0.029	U	
		VMP-2-5-071612	7/16/2012	<0.012	J	U	<0.0058	U		<0.0043	J	U	<0.0079	U		<0.0098	U		0.0067			<0.019	U		0.0064			<0.0071	U	
		VMP-2-5-102412	10/24/2012	<0.018	J	U	<0.009	U		<0.0066	J	U	<0.012	U		<0.015	U		<0.007	U		<0.03	U		<0.0049	U		<0.011	U	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<1.4	U		<2.9	U		<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		57			<3.5	U	
		VMP-2-8.5-111610	11/16/2010	<3.9	U		<7.9	U		<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		<4.3	U		<9.7	U	
		VMP-2-8.5-020411	2/4/2011	<1.3	U		<2.7	U		<2	U		<3.7	U		<1.1	U		<2.1	U		<3.6	U		9.6			<3.3	U	
		VMP-2-8.5-041311	4/13/2011	0.36	J		0.12	J	J	0.098	J		<1.1	U		<1.4	U		0.11	J		<1.1	U		0.14	J		<1	U	
		VMP-2-8.5-080211	8/2/2011	8	J		<33	U		<24	U		<45	U		<56	U		<26	U		<44	U		52			<41	U	
		VMP-2-8.5-110711	11/7/2011	<0.14	U		<0.072	U		<0.052	U		<0.097	U		<0.12	U		<0.056	U		<0.094	U		<0.039	U		<0.088	U	
		VMP-2-8.5-012612	1/26/2012	<1.6	U		<3.2	U		<2.3	U		<4.3	U		<5.3	U		<2.5	U		<4.2	U		4.1			<3.9	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<1.6	U		<3.2	U		<2.3	U		<4.3	U		<5.3	U		<2.5	U		<4.2	U		5.4		J	<3.9	U	
		VMP-2-8.5-041612	4/16/2012	<0.012	J	U	<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		0.0096			<0.0075	U	
		VMP-2-8.5-041612-Dup	4/16/2012	<0.012	J	U	<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		<0.0049	U		0.00093	J		0.0094			0.0017	J	
		VMP-2-8.5-071612	7/16/2012	<0.014	J	U	<0.007	U		<0.0049		U	<0.0095	U		<0.012	U		0.0068			<0.023	U		<0.0038	J	U	<0.0086	J	U
		VMP-2-8.5-071612-Dup	7/16/2012	<0.011	J	U	<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0097	U		0.0063			<0.019	U		0.0015	J		<0.0071	U	
		VMP-2-8.5-102312	10/23/2012	<0.018	U		<0.0092	U		<0.0067	J	U	<0.012	U		<0.015	U		<0.0071	U		<0.03	U		0.04			<0.011	U	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<2.2	U		<4.4	U		<3.2	U		<6	U		<1.9	U		<3.4	U		<5.8	U		81			<5.4	U	
		VMP-2-22-111610	11/16/2010	<4.1	U		<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<4.5	U		<10	U	
		VMP-2-22-020411	2/4/2011	<1.8	U		<3.7	U		<2.7	U		<5.1	U		<1.6	U		<2.9	U		<4.9	U		29			<4.6	U	
		VMP-2-22-041311	4/13/2011	<22	U		<11	U		0.89	J		<15	U		<18	U		<8.5	U		<14	U		4.2	J		<13	U	
		VMP-2-22-080211	8/2/2011	<22	U		<44	U		<32	U		<60	U		<74	U		<34	U		<58	U		57			<54	U	
		VMP-2-22-110711	11/7/2011	<4.6	U		<2.4	U		<1.7	U		<3.2	U		<3.9	U		<1.8	U		<3.1	U		1.1	J		<2.9	U	
		VMP-2-22-012612	1/26/2012	<2.4	U		<4.9	U		<3.6	U		<6.6	U		<8.2	U		<3.8	U		<6.4	U		6.4		J	<6	U	
		VMP-2-22-042712	4/27/2012	<0.01	J	U	<0.0051	U		<0.0037	J	U	<0.0068	U		<0.0085	U		0.0065			<0.017	U		0.0033			<0.0062	U	
		VMP-2-22-071612	7/16/2012	<0.012	J	U	<0.006	U		<0.0044	J	U	<0.0081	U		<0.01	U		0.006			<0.02	U		0.0087			<0.0073	U	
		VMP-2-22-102312	10/23/2012	<0.018	J	U	<0.0092	U		<0.0067	J	U	<0.012	U		<0.015	U		<0.0071	U		<0.03	U		0.01			<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<4.1	U		<8.4	U		<6.1	U		<11	U		<3.5	U		<6.5	U		<11	U		210			<10	U	
		VMP-3-5-112210	11/22/2010	<4.2	U		3.7	J		<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		340			<10	U	
		VMP-3-5-020911	2/9/2011	<1.9	U		<3.8	U		<2.8	U		<5.2	U		<1.6	U		<3	U		<5	U		77			<4.6	U	
		VMP-3-5-041411	4/14/2011	<20	U		<41	U		<30	U		<55	U		<69	U		<32	U		<54	U		210			<50	U	
		VMP-3-5-080211	8/2/2011	0.007	J		<0.0098	U		<0.0072	U		<0.013	U		<0.016	U		<0.0076	U		<0.013	U		0.0084			<0.012	U	
		VMP-3-5-110811	11/8/2011	<0.011	U		<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-3-5-110811-DUP	11/8/2011	<0.011	U		<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.0072	U		<0.003	U		<0.0067	U	
		VMP-3-5-012712	1/27/2012	<1.4	U		<2.8	U		<2	U		<3.7	U		<4.6	U		<2.1	U		<3.6	U		5.2			<3.4	U	
		VMP-3-5-041912	4/19/2012	<0.012	J	U	<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		<0.02	U		0.015			0.002	J	
		VMP-3-5-072712	7/27/2012	0.013		J	0.0032	J		<0.0046	J	U	<0.0086	U		<0.011	U		0.0072			<0.021	U		0.00067	J		<0.0077	U	
	10 ft	VMP-3-10	6/21/2010	<4.7	U		<9.5	U		<7	U		<13	U		<4	U		<7.4	U		<12	U		1000			<12	U	
		VMP 3-10-091010	9/10/2010	<13	U		<27	U		<20	U		<36	U		<11	U		<21	U		<35	U		970			<33	U	
		VMP-3-10-092010	9/20/2010	<9.6	U		<20	U		<14	U		<26	U		<8.2	U		<15	U		<26	U		840			<24	U	
		VMP-3-10-112210	11/22/2010	<4.1	U		<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		1300			<10	U	
		VMP-3-10-112210-Dup	11/22/2010	<5.7	U		<12	U		<8.5	U		<16	U		<4.8	U		<9	U		<15	U		1100			<14	U	
		VMP-3-10-020811	2/8/2011	<6	U		<12	U		<8.9	U		<16	U		<5.1	U		<9.5	U		<16	U		930			<15	U	
		VMP-3-10-041311	4/13/2011	<35	U		<71	U		<52	U		<96	U		<120	U		<55	U		<93	U		570			<86	U	
		VMP-3-10-080311	8/3/2011	0.038	J		<0.089	U		0.13			<0.12	U		<0.15	U		<0.069	U		<0.12	U		3.6			<0.11	U	
		VMP-3-10-110811	11/8/2011	0.013	J		<0.0073	U		<0.0054	U		<0.0099	U		<0.012	U		0.018			<0.0096	U		0.012			<0.009	U	
		VMP-3-10-012712	1/27/2012	<0.026	U		<0.053	U		<0.039	U		<0.072	U		<0.089	U		<0.041	U		<0.069	U		0.4			<0.064	U	
		VMP-3-10-042012	4/20/2012	<0.011	J	U	<0.0054	U		<0.0039	J	U	<0.0073	U		<0.009	U		0.002	J		<0.018	U		0.0056			0.0032	J	
		VMP-3-10-072312	7/23/2012	<0.012	U		<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		0.0056			<0.021	U		0.0051			<0.0077	U	
		VMP-3-10-101812	10/18/2012	<0.019	U		<0.0095	U		<0.007	U		<0.013	U		<0.016	U		<0.0074	U		<0.031	U		0.1			<0.012	U	
	22 ft	VMP-3-22-092010	9/20/2010	<13	U		<26	U		<19	U		<35	U		<11	U		<20	U		<34	U		1100			<31	U	
		VMP-3-22-112210	11/22/2010	<14	U		<29	U		<21	U		<40	U		<12	U		<23	U		<38	U		1300			<36	U	
		VMP-3-22-020811	2/8/2011	<7.1	U		<14	U		<10	U		<20	U		<6	U		<11	U		<19	U		890			<18	U	
		VMP-3-22-041511	4/15/2011	<39	U		<78	U		<57	U		<100	U		<130	U		<60	U		<100	U		760			<95	U	
		VMP-3-22-080611	8/6/2011	<0.062	U		<0.12	U		<0.091	U		<0.17	U		<0.21	U		<0.096	U		<0.16	U		0.78			<0.15	U	
		VMP-3-22-110811	11/8/2011	<0.011	U		<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.0072	U		0.0038			<0.0067	U	
		VMP-3-22-013012	1/30/2012	<0.044	J	U	<0.022	U		<0.016	J	U	<0.03	U		<0.037	U		<0.017	U		<0.029	U		0.39			<0.027	U	
		VMP-3-22-042012	4/20/2012	<0.011	J	U	<0.0055	U		<0.004	J	U	<0.0074	U		<0.0092	U		0.00067	J		<0.018	U		0.0072			0.0021	J	
		VMP-3-22-072312	7/23/2012	<0.012	U		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		<0.0034	U		<0.0075	U	
		VMP-3-22-101812	10/18/2012	<0.018	U		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		0.033			<0.03	U		0.0035	J		<0.011	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<24	U		<48	U		<35	U		<65	U		<20	U		<37	U		<63	U		1100			<58	U	
		VMP-3-31.5-112210	11/22/2010	<16	U		<33	U		<24	U		<45	U		<14	U		<26	U		<44	U		1400			<41	U	
		VMP-3-31.5-020911	2/9/2011	<16	U		<32	U		<23	U		<43	U		<13	U		<25	U		<42	U		1000			<39	U	
		VMP-3-31.5-041411	4/14/2011	<130	U		<260	U		<190	U		<350	U		<440	U		<200	U		<340	U		910			<320	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<130	U		<260	U		<190	U		<350	U		<440	U		<200	U		<340	U		830			<320	U	
		VMP-3-31.5-080211	8/2/2011	<290	U		<590	U		<430	U		<800	U		<990	U		<460	U		<780	U		1000			<720	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<170	U		<350	U		<250	U		<470	U		<580	U		<270	U		<450	U		1400			<420	U	
		VMP-3-31.5-110811	11/8/2011	13	J		<14	U		<10	U		<19	U		<23	U		<11	U		<18	U		49			<17	U	
		VMP-3-31.5-012712	1/27/2012	<43	U		<87	U		<64	U		<120	U		<150	U		<68	U		<110	U		210		J	<110	U	
		VMP-3-31.5-041912	4/19/2012	<74	U		<150	U		<110	U		<200	U		<250	U		<120	U		<200	U		580			<180	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<71	U		<140	U		<100	U		<200	U		<240	U		<110	U		<190	U		590			<180	U	
		VMP-3-31.5-072312	7/23/2012	<18	U		<36	U		<26	U		<49	U		<60	U		<28	U		<47	U		120			<44	U	
		VMP-3-31.5-101912	10/19/2012	<1.4	U		<2.9	U		<2.1	U		<3.9	U		<4.8	U		<2.2	U		<3.8	U		6.8			<3.5	U	
	39 ft	VMP-3-39-101912	10/19/2012	<140	U		<290	U		<210	U		<390	U		<480	U		<220	U		<380	U		340			<350	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.22	U		<0.45	U		<0.33	U		<0.61	U		<0.19	U		<0.35	U		<0.59	U		40			<0.55	U	
		VMP-4-5-112210	11/22/2010	<8.4	U		<17	U		<12	U		<23	U		<7.1	U		<13	U		<22	U		1200			<21	U	
		VMP-4-5-021411	2/14/2011	<0.49	U		<0.99	U		<0.72	U		<1.3	U		<0.42	U		<0.77	U		<1.3	U		120			<1.2	U	
		VMP-4-5-041911	4/19/2011	<22	U		<46	U		<33	U		<62	U		<76	U		<35	U		<60	U		770			<56	U	
		VMP-4-5-080311	8/3/2011	<0.19	U		<0.098	U		0.02	J		<0.13	U		<0.16	U		<0.076	U		<0.13	U		0.2			<0.12	U	
		VMP-4-5-110911	11/9/2011	<0.011	U		<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		0.0014	J		0.0092			<0.0066	U	
		VMP-4-5-013012	1/30/2012	<0.14	U		<0.28	U		<0.2	U		<0.37	U		<0.46	U		<0.21	U		<0.36	U		6.2		J	<0.34	U	
		VMP-4-5-042512	4/25/2012	<0.014	J	U	<0.0068	U		<0.005	J	U	<0.0092	U		<0.011	U		<0.0053	U		<0.022	U		0.17			0.0022	J	
		VMP-4-5-072512	7/25/2012	0.014		J	<0.0067	U		<0.0049	J	U	<0.0091	U		<0.011	U		0.0019	J		<0.022	U		0.0087			<0.0082	U	
		VMP-4-5-101812	10/18/2012	<0.019	U		<0.0098	U		<0.0072	U		<0.013	U		<0.016	U		<0.0076	U		<0.032	U		0.0012	J		<0.012	U	
	12 ft	VMP-4-12-082510	8/25/2010	<3.9	U		<7.9	U		<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		880			<9.7	U	
		VMP-4-12-112310	11/23/2010	<4	U		<8.1	U		<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		760			<9.9	U	
		VMP-4-12-021411	2/14/2011	<1	U		<2	U		<1.5	U		<2.8	U		<0.85	U		<1.6	U		<2.7	U		280			<2.5	U	
		VMP-4-12-041911	4/19/2011	<19	U		<39	U		<29	U		<53	U		<66	U		<30	U		<52	U		860			<48	U	
		VMP-4-12-080311	8/3/2011	<2.2	U		<4.5	U		<3.3	U		<6.1	U		<7.6	U		<3.5	U		<5.9	U		230			<5.5	U	
		VMP-4-12-080311-Dup	8/3/2011	<4.5	U		<9.1	U		<6.6	U		<12	U		<15	U		<7	U		<12	U		210			<11	U	
		VMP-4-12-110911	11/9/2011	<2.7	U		<1.4	U		<1	U		<1.9	U		<2.3	U		<1.1	U		<1.8	U		16			<1.7	U	
		VMP-4-12-013012	1/30/2012	<1.4	U		<2.8	U		<2.1	U		<3.8	U		<4.7	U		<2.2	U		<3.7	U		100			<3.4	U	
		VMP-4-12-041812	4/18/2012	<0.012	J	U	<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		<0.0049	U		0.0028	J		0.0096			0.0019	J	
		VMP-4-12-072312	7/23/2012	<0.061	U		<0.031	U		<0.022	U		<0.041	U		<0.051	U		<0.024	U		<0.1	U		0.1			<0.037	U	
		VMP-4-12-101812	10/18/2012	<0.019	U		<0.0095	U		<0.007	U		<0.013	U		<0.016	U		<0.0074	U		0.002	J		0.002	J		<0.012	U	
		VMP-4-12-101812-Dup	10/18/2012	0.0066	J		<0.0098	U		<0.0072	U		<0.013	U		<0.016	U		<0.0076	U		0.0071	J		0.0024	J		<0.012	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<4.5	U		<9.1	U		<6.6	U		<12	U		<3.8	U		<7	U		<12	U		3000		J	<11	U	
		VMP-4-23.5-112310	11/23/2010	<45	U		<92	U		<67	U		<120	U		<38	U		<71	U		<120	U		2900			<110	U	
		VMP-4-23.5-021411	2/14/2011	<1.6	U		<3.3	U		<2.4	U		<4.5	U		<1.4	U		<2.6	U		<4.4	U		1700		J	<4.1	U	
		VMP-4-23.5-042011	4/20/2011	<100	U		<210	U		<160	U		<290	U		<360	U		<160	U		<280	U		2600			<260	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<100	U		<210	U		<160	U		<290	U		<360	U		<160	U		<280	U		2400			<260	U	
		VMP-4-23.5-080611	8/6/2011	<4.4	U		<8.8	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		1900			<11	U	
		VMP-4-23.5-110911	11/9/2011	<52	U		<26	U		<19	U		<36	U		<44	U		<20	U		<35	U		940			<32	U	
		VMP-4-23.5-013012	1/30/2012	<28	U		<56	U		<41	U		<76	U		<94	U		<44	U		<74	U		3400		J	<69	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<19	U		<39	U		<29	U		<53	U		<66	U		<30	U		<52	U		2500		J	<48	U	
		VMP-4-23.5-041912	4/19/2012	2	J		<12	U		<9	U		<17	U		<21	U		<9.6	U		<16	U		1500			<15	U	
		VMP-4-23.5-072312	7/23/2012	<2.9	U		<5.9	U		<4.3	U		<8	U		<9.9	U		<4.6	U		<7.8	U		540			<7.2	U	
		VMP-4-23.5-101812	10/18/2012	<3.2	U		<6.5	U		<4.7	U		<8.8	U		<11	U		<5	U		<8.5	U		52			<7.9	U	
	39 ft	VMP-4-39-042111	4/21/2011	<130	U		<260	U		<190	U		<360	U		<440	U		<200	U		<350	U		2400			<320	U	
		VMP-4-39-041912	4/19/2012	<3.1	U		<6.3	U		<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		2300			<7.7	U	
		VMP-4-39-072312	7/23/2012	<4.7	U		<9.5	U		<7	U		<13	U		<16	U		<7.4	U		<12	U		1400		J	<12	U	
		VMP-4-39-101812	10/18/2012	<59	U		<120	U		<87	U		<160	U		<200	U		<92	U		<160	U		710			<140	U	
		VMP-4-39-101812-Dup	10/18/2012	<54	U		<110	U		<79	U		<150	U		<180	U		<84	U		<140	U		670			<130	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<8.2	U		<17	U		<12	U		<22	U		<7	U		<13	U		<22	U		400			<20	U	
		VMP-5-5-112210	11/22/2010	<2	U		<4	U		<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		450			<5	U	
		VMP-5-5-021611	2/16/2011	0.0081	J	J	<0.026	U		<0.019	U		<0.035	U		<0.011	U		<0.02	U		<0.034	U		4.4			<0.032	U	
		VMP-5-5-042111	4/21/2011	<0.041	U		<0.083	U		<0.061	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		0.033	J		<0.1	U	
		VMP-5-5-080511	8/5/2011	0.0037	J		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		0.0015	J		<0.01	U		0.035			<0.0097	U	
		VMP-5-5-111111	11/11/2011	0.0024	J		<0.0058	U		<0.0043	U		<0.0079	U		<0.0098	U		<0.0045	U		<0.0077	U		0.25			<0.0071	U	
		VMP-5-5-013012	1/30/2012	0.12			<0.059	U		0.014	J		<0.08	U		<0.099	U		<0.046	U		<0.077	U		0.44			0.0073	J	
		VMP-5-5-041112	4/11/2012	0.002	J	J	0.00094	J		<0.0042	U		<0.0078	U		<0.0096	U		0.0024	J		<0.019	U		0.0012	J		<0.007	U	
		VMP-5-5-071312	7/13/2012	<0.013	J	U	<0.0064	U		<0.0047	J	U	<0.0086	U		<0.011	U		<0.005	J	U	<0.021	U		<0.0035	J	U	<0.0078	U	
		VMP-5-5-101212	10/12/2012	<0.016	U		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		<0.026	U		<0.0043	U		<0.0097	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<4.1	U		<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		360			<10	U	
		VMP-5-12.5-112310	11/23/2010	<0.2	U		<0.42	U		<0.3	U		<0.56	U		<0.17	U		<0.32	U		<0.54	U		14			<0.51	U	
		VMP-5-12.5-021611	2/16/2011	<0.62	U		<1.2	U		<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		36			<1.5	U	
		VMP-5-12.5-042111	4/21/2011	<0.044	U		<0.089	U		<0.065	U		<0.12	U		<0.15	U		<0.069	U		<0.12	U		0.023	J		<0.11	U	
		VMP-5-12.5-080611	8/6/2011	<3.9	U		<7.8	U		<5.7	U		<10	U		<13	U		<6	U		<10	U		180			<9.5	U	
		VMP-5-12.5-111111	11/11/2011	0.0023	J		<0.0055	U		<0.004	U		<0.0075	U		<0.0093	U		0.021			<0.0073	U		0.0019	J		<0.0068	U	
		VMP-5-12.5-013012	1/30/2012	<0.036	J	U	<0.018	U		<0.013	J	U	<0.024	U		<0.03	U		0.012	J		<0.024	U		0.14			<0.022	U	
		VMP-5-12.5-041112	4/11/2012	<0.011	U		<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.018	U		0.0022	J		<0.0067	U	
		VMP-5-12.5-071212	7/12/2012	<0.013	U		<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		0.0015	J		<0.021	U		<0.0035	U		<0.0079	U	
		VMP-5-12.5-101112	10/11/2012	<0.03	J	U	<0.015	U		<0.011	U		<0.021	U		<0.026	U		<0.012	U		<0.05	U		<0.0084	U		<0.019	U	
	31 ft	VMP-5-31-090910	9/9/2010	<17	U		<35	U		<25	U		<47	U		<14	U		<27	U		<45	U		1600			<42	U	
		VMP-5-31-112310	11/23/2010	<11	U		<22	U		<16	U		<29	U		<9.1	U		<17	U		<28	U		2200			<26	U	
		VMP-5-31-021611	2/16/2011	<4.3	U		<8.7	U		<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		1300			<11	U	
		VMP-5-31-042111	4/21/2011	<64	U		<130	U		<95	U		<180	U		<220	U		<100	U		<170	U		1600			<160	U	
		VMP-5-31-080611	8/6/2011	6.4	J		<73	U		<53	U		<99	U		<120	U		<57	U		<96	U		1400			<89	U	
		VMP-5-31-111111	11/11/2011	<73	U		<37	U		<27	U		<50	U		<62	U		<28	U		<48	U		670			<45	U	
		VMP-5-31-013012	1/30/2012	<9.3	U		<19	U		<14	U		<25	U		<32	U		<14	U		<25	U		480			<23	U	
		VMP-5-31-041112	4/11/2012	<0.03	U		<0.06	U		<0.044	U		<0.081	U		<0.1	U		<0.047	U		<0.079	U		0.46			<0.073	U	
		VMP-5-31-071212	7/12/2012	0.0076	J		<0.0063	U		<0.0046	J	U	<0.0086	U		<0.011	U		0.023			<0.021	U		0.025			<0.0077	U	
		VMP-5-31-101112	10/11/2012	<0.018	J	U	<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		0.01			<0.029	U		0.0041	J		<0.011	U	
	40 ft	VMP-5-40-042111	4/21/2011	<67	U		<140	U		<99	U		<180	U		<230	U		<100	U		<180	U		1400			<160	U	
		VMP-5-40-013012	1/30/2012	<19	U		<39	U		<29	U		<53	U		<66	U		<30	U		<52	U		410			<48	U	
		VMP-5-40-041212	4/12/2012	0.021	J		<0.059	U		<0.043	U		<0.08	U		<0.099	U		<0.046	U		<0.077	U		1.7			<0.072	U	
		VMP-5-40-071212	7/12/2012	<0.12	U		<0.063	U		<0.046	U		<0.086	U		<0.11	U		0.046	J		<0.21	U		0.016	J		<0.077	U	
		VMP-5-40-101112	10/11/2012	<0.018	J	U	<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		0.025			<0.03	U		0.003	J		<0.011	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<0.68	U		<1.4	U		<1	U		<1.9	U		<0.58	U		<1.1	U		<1.8	U		76			<1.7	U	
		VMP-6-5-111610	11/16/2010	<4.3	U		<8.7	U		<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		600			<11	U	
		VMP-6-5-020711	2/7/2011	<0.0037	U		<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		0.013			<0.0091	U	
		VMP-6-5-040811	4/8/2011	0.0098	J		<0.016	U		<0.012	U		<0.022	U		<0.027	U		<0.013	U		<0.021	U		0.099			<0.02	U	
		VMP-6-5-080411	8/4/2011	<0.21	U		<0.42	U		<0.31	U		<0.57	U		<0.71	U		<0.33	U		<0.55	U		5.1			<0.51	U	
		VMP-6-5-110911	11/9/2011	<0.01	U		<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		<0.0039	U		<0.0066	U		0.016			<0.0062	U	
		VMP-6-5-013112	1/31/2012	0.073	J		<0.06	U		0.016	J		<0.081	U		<0.1	U		<0.046	U		<0.078	U		0.42			<0.073	U	
		VMP-6-5-041212	4/12/2012	<0.012	J	U	<0.0063	U		<0.0046	J	U	<0.0086	U		<0.011	U		<0.0049	J	U	<0.021	U		0.0041			<0.0077	U	
		VMP-6-5-071612	7/16/2012	<0.012	J	U	<0.0063	U		<0.0046	J	U	<0.0086	U		<0.011	U		0.00086	J		<0.021	U		0.0015	J		<0.0077	U	
		VMP-6-5-101012	10/10/2012	<0.017	J	U	<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.028	U		<0.0048	U		<0.011	U	
	10 ft	VMP-6-10-090810	9/8/2010	<0.74	U		<1.5	U		<1.1	U		<2	U		<0.63	U		<1.2	U		<2	U		240		J	<1.8	U	
		VMP-6-10-111710	11/17/2010	<0.004	U		0.0011	J		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		0.0046			<0.0099	U	
		VMP-6-10-020711	2/7/2011	<0.0039	U		<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		0.0029	J		<0.0097	U	
		VMP-6-10-040811	4/8/2011	0.19	J		<0.19	U		<0.14	U		<0.26	U		<0.32	U		<0.15	U		<0.25	U		<0.1	U		<0.23	U	
		VMP-6-10-080411	8/4/2011	<0.67	U		<1.3	U		<0.98	U		<1.8	U		<2.2	U		<1	U		<1.8	U		220			<1.6	U	
		VMP-6-10-111011	11/10/2011	<0.01	U		<0.0053	U		<0.0039	U		<0.0072	U		<0.0089	U		<0.0041	U		<0.0069	U		0.0013	J		<0.0064	U	
		VMP-6-10-013112	1/31/2012	<0.46	U		<0.94	U		<0.68	U		<1.3	U		<1.6	U		<0.73	U		<1.2	U		52		J	<1.1	U	
		VMP-6-10-041212	4/12/2012	<0.012	J	U	<0.0061	U		0.0029	J		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		0.0037			<0.0075	U	
		VMP-6-10-071612	7/16/2012	<0.016	J	U	<0.0083	U		<0.006		U	<0.011	U		<0.014	U		<0.0064	J	U	<0.027	U		0.0035	J		<0.01	U	
		VMP-6-10-101112	10/11/2012	<0.018	J	U	<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		0.0025	J		<0.011	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<5	U		<10	U		<7.4	U		<14	U		<4.2	U		<7.9	U		<13	U		1000			<12	U	
		VMP-6-31.5-111710	11/17/2010	<7.8	U		<16	U		<12	U		<21	U		<6.6	U		<12	U		<21	U		1500			<19	U	
		VMP-6-31.5-020711	2/7/2011	<7.5	U		<15	U		<11	U		<21	U		<6.4	U		<12	U		<20	U		1200			<18	U	
		VMP-6-31.5-041111	4/11/2011	3.8	J		<12	U		<8.6	U		<16	U		<20	U		<9.2	U		<15	U		580			<14	U	
		VMP-6-31.5-080411	8/4/2011	<4.3	U		<8.7	U		<6.4	U		<12	U		<15	U		<6.8	U		<11	U		770			<11	U	
		VMP-6-31.5-111011	11/10/2011	34			<13	U		<9.8	U		<18	U		<22	U		<10	U		<18	U		530			<16	U	
		VMP-6-31.5-013112	1/31/2012	<2.7	U		<5.4	U		<3.9	U		<7.3	U		<9	U		<4.2	U		<7.1	U		550		J	<6.6	U	
		VMP-6-31.5-041212	4/12/2012	<0.36	U		<0.72	U		<0.53	U		<0.98	U		<1.2	U		<0.56	U		<0.94	U		26			<0.88	U	
		VMP-6-31.5-071612	7/16/2012	0.017	J	J	<0.011	U		<0.0083	J	U	<0.015	U		<0.019	U		0.0055	J		<0.037	U		0.037			<0.014	U	
		VMP-6-31.5-101112	10/11/2012	<0.018	J	U	<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		0.0047	J		<0.029	U		0.0018	J		<0.011	U	
	39 ft	VMP-6-39-041111	4/11/2011	3.4	J		<14	U		<10	U		<19	U		<24	U		<11	U		<18	U		620			<17	U	
		VMP-6-39-013112	1/31/2012	<2.7	U		<5.4	U		<3.9	U		<7.3	U		<9	U		<4.2	U		<7.1	U		690		J	<6.6	U	
		VMP-6-39-041212	4/12/2012	<0.26	U		<0.53	U		<0.39	U		<0.72	U		<0.89	U		<0.41	U		<0.69	U		64			<0.64	U	
		VMP-6-39-071612	7/16/2012	0.011	J	J	<0.025	U		0.016	J		<0.034	U		<0.042	U		<0.019	U		<0.081	U		0.1			<0.03	U	
		VMP-6-39-071612-Dup	7/16/2012	0.012	J	J	<0.025	U		0.013	J		<0.034	U		<0.042	U		<0.019	U		<0.082	U		0.11			<0.03	U	
		VMP-6-39-101112	10/11/2012	<0.034	J	U	<0.017	U		<0.012	U		<0.023	U		<0.028	U		<0.013	U		<0.056	U		0.0032	J		<0.021	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	0.0028	J		<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		0.016			<0.01	U	
		VMP-7-5-111910	11/19/2010	<0.0037	U		<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		0.0054			<0.0091	U	
		VMP-7-5-020711	2/7/2011	<0.004	U		<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		0.0018	J		<0.0099	U	
		VMP-7-5-040711	4/7/2011	<0.023	J	U	<0.011	U		<0.0084	U		<0.016	U		<0.019	U		<0.0089	U		<0.015	U		0.0081			<0.014	U	
		VMP-7-5-080211	8/2/2011	<0.56	U		<1.1	U		<0.83	U		<1.5	U		<1.9	U		<0.88	U		<1.5	U		45			<1.4	U	
		VMP-7-5-111011	11/10/2011	<0.011	U		<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-7-5-111011-DUP	11/10/2011	<0.01	U		<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		<0.0039	U		<0.0066	U		<0.0028	U		<0.0062	U	
		VMP-7-5-013112	1/31/2012	<0.011	J	U	<0.0055	U		<0.004	J	U	<0.0074	U		<0.0092	U		<0.0043	U		<0.0072	U		<0.003	U		<0.0067	U	
		VMP-7-5-041212	4/12/2012	0.011	J		<0.006	U		<0.0044	J	U	<0.0081	U		<0.01	U		<0.0046	U		<0.02	U		<0.0033	J	U	<0.0073	U	
		VMP-7-5-073112	7/31/2012	<0.03	U		<0.015	U		0.0037	J		<0.021	U		<0.026	U		<0.012	U		0.0034	J		0.016			<0.019	U	
		VMP-7-5-101012	10/10/2012	0.0034	J		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.03	U		<0.0051	U		<0.011	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.09	U		<0.18	U		<0.13	U		<0.25	U		<0.076	U		<0.14	U		<0.24	U		<0.099	U		<0.22	U	
		VMP-7-13.5-111910	11/19/2010	<0.63	U		<1.3	U		<0.93	U		<1.7	U		<0.53	U		<0.98	U		<1.7	U		26		J	<1.5	U	
		VMP-7-13.5-020711	2/7/2011	<0.0038	U		<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		0.0013	J		<0.0095	J	U
		VMP-7-13.5-040711	4/7/2011	<0.027	J	U	<0.014	U		<0.0099	U		<0.018	U		<0.023	U		<0.01	U		<0.018	U		0.0091			<0.016	U	
		VMP-7-13.5-080311	8/3/2011	<0.75	U		<1.5	U		<1.1	U		<2	U		<2.5	U		<1.2	U		<2	U		9.4			<1.8	U	
		VMP-7-13.5-111011	11/10/2011	<0.0098	U		<0.005	U		<0.0036	U		<0.0067	U		<0.0083	U		<0.0038	U		<0.0065	U		0.013			<0.0061	U	
		VMP-7-13.5-013112	1/31/2012	<0.035	U		<0.07	U		<0.052	U		<0.095	U		<0.12	U		<0.055	U		<0.092	U		1.7		J	<0.086	U	
		VMP-7-13.5-013112-DUP	1/31/2012	<0.036	U		<0.072	U		<0.053	U		<0.098	U		<0.12	U		<0.056	U		<0.094	U		1.6		J	<0.088	U	
		VMP-7-13.5-041212	4/12/2012	<0.011	J	U	<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0096	U		<0.0045	J	U	<0.019	U		0.013			<0.007	U	
		VMP-7-13.5-041212-DUP	4/12/2012	<0.012	J	U	<0.0061	U		<0.0044	J	U	<0.0082	U		<0.01	U		<0.0047	J	U	<0.02	U		0.0064			<0.0074	U	
		VMP-7-13.5-072012	7/20/2012	<0.012	U		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		0.0066			<0.019	U		<0.0032	U		<0.0072	U	
		VMP-7-13.5-101012	10/10/2012	0.0042	J		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.028	U		<0.0048	U		<0.011	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<1.3	U		<2.6	U		<1.9	U		<3.5	U		<1.1	U		<2	U		<3.4	U		540		J	<3.2	U	
		VMP-7-29.5-111910	11/19/2010	<1.9	U		<3.9	U		<2.8	U		<5.3	U		<1.6	U		<3	U		<5.1	U		410		J	<4.8	U	
		VMP-7-29.5-020711	2/7/2011	<2	U		<4	U		<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		440			<5	U	
		VMP-7-29.5-040711	4/7/2011	<0.49	U		<0.98	U		<0.72	U		<1.3	U		<1.6	U		<0.76	U		<1.3	U		280		J	<1.2	U	
		VMP-7-29.5-080311	8/3/2011	<1.2	U		<2.3	U		<1.7	U		<3.2	U		<3.9	U		<1.8	U		<3	U		470			<2.8	U	
		VMP-7-29.5-111111	11/11/2011	8.5	J		<4.6	U		3.5			<6.2	U		<7.6	U		<3.5	U		<6	U		190			<5.6	U	
		VMP-7-29.5-020112	2/1/2012	<0.45	U		<0.92	U		<0.67	U		<1.2	U		0.18	J	J	<0.71	U		<1.2	U		220		J	<1.1	U	
		VMP-7-29.5-041312	4/13/2012	0.0077	J		<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.085			<0.007	U	
		VMP-7-29.5-072012	7/20/2012	0.0088	J		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		0.0011	J		0.0058	J		0.003	J		<0.0072	U	
		VMP-7-29.5-072012-Dup	7/20/2012	0.012			<0.0059	U		0.00099	J		<0.008	U		<0.0099	U		0.001	J		0.0067	J		0.003	J		<0.0072	U	
		VMP-7-29.5-101012	10/10/2012	0.0093	J		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		<0.005	U		<0.011	U	
	38 ft	VMP-7-38-020711	2/7/2011	<2.7	U		<5.4	U		<4	U		<7.4	U		<2.3	U		<4.2	U		<7.1	U		390			<6.6	U	
		VMP-7-38-040711	4/7/2011	<0.68	U		<1.4	U		<1	U		<1.9	U		<2.3	U		<1.1	U		<1.8	U		350		J	<1.7	U	
		VMP-7-38-020112	2/1/2012	<0.65	U		<1.3	U		<0.97	U		<1.8	U		<2.2	U		<1	U		<1.7	U		260		J	<1.6	U	
		VMP-7-38-042512	4/25/2012	<0.011	J	U	<0.0058	U		<0.0049		U	<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.012			<0.007	U	
		VMP-7-38-042512-Dup	4/25/2012	<0.011	J	U	<0.0058	U		<0.0045		U	<0.0078	U		<0.0096	U		<0.0045	J	U	<0.019	U		0.012			<0.007	U	
		VMP-7-38-101112	10/11/2012	<0.017	J	U	<0.0085	U		<0.0062	U		<0.011	U		<0.014	U		<0.0066	U		<0.028	U		<0.0046	U		<0.01	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.0032	J		<0.0085	U		0.0032	J		<0.011	U		<0.0035	U		0.0039	J		<0.011	U		<0.0046	U		0.0015	J	
		VMP-8-5-111810	11/17/2010	0.0011	J		0.0014	J		<0.0054	U		<0.0099	U		<0.0031	U		0.001	J		<0.0096	U		<0.004	U		<0.009	U	
		VMP-8-5-021011	2/10/2011	0.0011	J		<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		0.0012	J		<0.0095	U	
		VMP-8-5-040711	4/7/2011	<0.017	J	U	<0.0087	U		<0.0064	U		0.0023	J		<0.014	U		0.00094	J		<0.011	U		0.0014	J		<0.011	U	
		VMP-8-5-072711	7/27/2011	0.0036	J		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.012	U		0.0014	J		<0.011	U	
		VMP-8-5-110311	11/3/2011	0.0022	J		<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-8-5-012312	1/23/2012	<0.013	J	U	<0.0067	U		<0.0049	J	U	<0.009	U		<0.011	U		<0.0052	U		<0.0088	U		<0.0036	U		<0.0081	U	
		VMP-8-5-041012	4/10/2012	<0.012	U		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		0.0011	J		<0.02	U		0.0044			<0.0073	U	
		VMP-8-5-071312	7/13/2012	<0.01	U		<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		0.0012	J		<0.017	U		<0.0028	U		<0.0062	U	
		VMP-8-5-073112	7/31/2012	0.0082	J		<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		0.0011	J		<0.021	U		0.0028	J		<0.0079	U	
		VMP-8-5-100412	10/4/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.028	U		<0.0048	U		<0.011	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.016	U		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.027	U		<0.0045	U		<0.01	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	0.0012	J		<0.0076	U		0.0027	J		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0042	U		<0.0093	U	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	0.0012	J		<0.0078	U		0.0028	J		<0.01	U		<0.0032	U		0.00094	J		<0.01	U		<0.0042	U		<0.0095	U	
		VMP-8-9.5-111810	11/17/2010	<0.0038	U		0.0014	J		<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		0.0011	J		<0.0093	U	
		VMP-8-9.5-021011	2/10/2011	<0.0039	U		<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0043	U		<0.0097	U	
		VMP-8-9.5-040711	4/7/2011	0.0015	J		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		0.00079	J		<0.011	U	
		VMP-8-9.5-072711	7/27/2011	0.0032	J		<0.0067	U		<0.0049	U		<0.0091	U		<0.011	U		<0.0052	U		<0.0088	U		0.0014	J		<0.0082	U	
		VMP-8-9.5-110311	11/3/2011	0.003	J		<0.0053	U		<0.0039	U		<0.0072	U		<0.0089	U		<0.0041	U		<0.0069	U		<0.0029	U		<0.0064	U	
		VMP-8-9.5-012312	1/23/2012	<0.013	J	U	<0.0064	U		<0.0047	J	U	<0.0086	U		<0.011	U		<0.005	U		<0.0084	U		0.0026	J		<0.0078	U	
		VMP-8-9.5-041012	4/10/2012	0.0019	J	J	<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		<0.02	U		0.0056			<0.0073	U	
		VMP-8-9.5-071312	7/13/2012	<0.012	U		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		<0.0046	U		<0.019	U		<0.0032	U		<0.0072	U	
		VMP-8-9.5-071312-Dup	7/13/2012	<0.011	U		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		<0.018	U		<0.0031	U		<0.0069	U	
		VMP-8-9.5-100412	10/4/2012	<0.019	U		<0.0095	U		<0.007	U		<0.013	U		<0.016	U		<0.0074	U		<0.031	U		0.0039	J		<0.012	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	0.0015	J		0.0009	J		0.003	J		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		0.002	J		<0.01	U	
		VMP-8-23.5-111910	11/19/2010	<0.0039	U		<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		0.0018	J		<0.0097	U	
		VMP-8-23.5-021011	2/10/2011	<0.0042	U		<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.0046	U		<0.01	U	
		VMP-8-23.5-040711	4/7/2011	0.0024	J		<0.0079	U		<0.0058	U		0.0021	J		<0.013	U		<0.0062	U		<0.01	U		0.001	J		<0.0097	U	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0025	J		<0.012	U		<0.0092	U		0.0033	J		<0.021	U		<0.0098	U		<0.016	U		0.0027	J		<0.015	U	
		VMP-8-23.5-081011	8/10/2011	<0.016	J	U	<0.0083	U		<0.0061	J	U	<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.012			<0.01	U	
		VMP-8-23.5-110611	11/6/2011	<0.012	J	U	<0.006	U		<0.0044	J	U	<0.0081	U		<0.01	U		<0.0047	U		<0.0079	U		<0.0033	U		<0.0073	U	
		VMP-8-23.5-012312	1/23/2012	<0.013	J	U	<0.0067	U		<0.0049	J	U	<0.009	U		<0.011	U		0.001	J		<0.0088	U		0.0017	J		<0.0081	U	
		VMP-8-23.5-041012	4/10/2012	<0.012	U		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		<0.0046	U		<0.019	U		0.0048			<0.0072	U	
		VMP-8-23.5-071312	7/13/2012	<0.013	U		<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		<0.005	U		<0.021	U		<0.0035	U		<0.0079	U	
		VMP-8-23.5-100412	10/4/2012	<0.018	U		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		0.0042	J		<0.011	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	0.0019	J		<0.0072	U		<0.0052	U		<0.0097	U		<0.003	U		<0.0056	U		<0.0094	U		0.011			<0.0088	U	
		VMP-9-5-111910	11/19/2010	<0.0037	U		<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0041	U		<0.0091	U	
		VMP-9-5-020811	2/8/2011	<0.0034	U		<0.0069	U		<0.0051	U		<0.0094	U		<0.0029	U		<0.0054	U		<0.0091	U		0.00097	J		<0.0084	U	
		VMP-9-5-040611	4/6/2011	<0.038	J	U	<0.019	U		<0.014	U		<0.026	U		<0.032	U		<0.015	U		<0.025	U		<0.01	U		<0.023	U	
		VMP-9-5-080211	8/2/2011	<0.73	U		<0.37	U		<0.27	U		<0.5	U		<0.62	U		<0.29	U		<0.49	U		0.14	J		<0.45	U	
		VMP-9-5-110411	11/4/2011	<0.011	J	U	<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		0.0016	J		<0.003	U		<0.0067	J	U
		VMP-9-5-012612	1/26/2012	0.001	J		<0.0047	U		<0.0034	J	U	<0.0063	U		<0.0079	U		<0.0036	U		<0.0062	U		0.01			<0.0057	U	
		VMP-9-5-041112	4/11/2012	<0.011	U		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		<0.018	U		0.0084			<0.0069	U	
		VMP-9-5-071312	7/13/2012	<0.012	U		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		<0.02	U		<0.0033	U		<0.0073	U	
		VMP-9-5-101012	10/10/2012	<0.018	J	U	<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		<0.005	U		<0.011	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.08	U		<0.16	U		<0.12	U		<0.22	U		<0.068	U		<0.12	U		<0.21	U		1.2			<0.2	U	
		VMP-9-11.5-111910	11/19/2010	<0.23	U		<0.47	U		<0.34	U		<0.63	U		<0.2	U		<0.36	U		<0.62	U		<0.26	U		<0.57	U	
		VMP-9-11.5-020911	2/9/2011	<0.0042	U		<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.0046	U		<0.01	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0032	U		<0.0066	U		<0.0048	U		<0.0089	U		<0.0028	U		<0.0051	U		<0.0086	U		0.0021	J		<0.008	U	
		VMP-9-11.5-040611	4/6/2011	<0.049	J	U	<0.025	U		<0.018	U		<0.034	U		<0.042	U		<0.019	U		<0.032	U		0.0033	J		<0.03	U	
		VMP-9-11.5-080211	8/2/2011	<0.27	U		<0.55	U		<0.4	U		<0.75	U		<0.93	U		<0.43	U		<0.73	U		2.5			<0.68	U	
		VMP-9-11.5-110411	11/4/2011	<0.011	J	U	<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.0072	U		0.0018	J		<0.0067	U	
		VMP-9-11.5-012612	1/26/2012	<0.0096	J	U	<0.0049	U		0.0019	J		<0.0066	U		<0.0082	U		<0.0038	U		<0.0064	U		0.00079	J		<0.006	J	U
		VMP-9-11.5-041112	4/11/2012	<0.011	U		<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		0.0025	J		<0.019	U		0.0072			<0.007	U	
		VMP-9-11.5-071312	7/13/2012	<0.013	U		<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		0.009			<0.021	U		0.00079	J		<0.0079	U	
		VMP-9-11.5-101012	10/10/2012	<0.017	J	U	<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		0.0048	J		<0.028	U		0.0021	J		<0.011	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<0.63	U		<1.3	U		<0.93	U		<1.7	U		<0.53	U		<0.98	U		<1.7	U		31			<1.5	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<0.67	U		<1.4	U		<0.99	U		<1.8	U		<0.57	U		<1	U		<1.8	U		32			<1.6	U	
		VMP-9-25.5-111910	11/19/2010	<0.72	U		<1.4	U		<1	U		<2	U		<0.61	U		<1.1	U		<1.9	U		20			<1.8	U	
		VMP-9-25.5-020911	2/9/2011	<0.39	U		<0.79	U		<0.58	U		<1.1	U		<0.33	U		<0.62	U		<1	U		3			<0.97	U	
		VMP-9-25.5-040811	4/8/2011	0.42	J		<0.4	U		<0.29	U		<0.54	U		0.26	J		<0.31	U		<0.53	U		0.88			<0.49	U	
		VMP-9-25.5-080211	8/2/2011	<0.44	U		<0.89	U		<0.65	U		<1.2	U		<1.5	U		<0.69	U		<1.2	U		32		J	<1.1	U	
		VMP-9-25.5-110711	11/7/2011	1.1	J		<0.78	U		0.35	J		<1.1	U		<1.3	U		<0.61	U		<1	U		1.8			<0.96	U	
		VMP-9-25.5-110711-DUP	11/7/2011	1.3	J		<0.68	U		0.31	J		<0.92	U		<1.1	U		<0.52	U		<0.89	U		1.7			<0.83	U	
		VMP-9-25.5-012612	1/26/2012	<0.1	U		<0.2	U		<0.15	U		<0.27	U		<0.34	U		<0.16	U		<0.26	U		4.3		J	<0.25	U	
		VMP-9-25.5-041112	4/11/2012	0.002	J	J	<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		0.0009	J		<0.019	U		0.0055			<0.007	U	
		VMP-9-25.5-071312	7/13/2012	<0.012	J	U	<0.0062	U		<0.0045	J	U	<0.0084	U		<0.01	U		0.0068			<0.02	U		<0.0034	J	U	<0.0076	U	
		VMP-9-25.5-071312-Dup	7/13/2012	<0.012	J	U	<0.006	U		<0.0044	J	U	<0.0081	U		<0.01	U		0.0058			<0.02	U		<0.0033	J	U	<0.0073	U	
		VMP-9-25.5-101012	10/10/2012	<0.016	J	U	<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		0.015			<0.027	U		<0.0045	U		<0.01	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<0.65	U		<1.3	U		<0.96	U		<1.8	U		<0.55	U		<1	U		<1.7	U		18			<1.6	U	
		VMP-9-38.5-040811	4/8/2011	1.8	J		<1.7	U		<1.3	U		<2.4	U		0.73	J		<1.4	U		<2.3	U		23			<2.1	U	
		VMP-9-38.5-012612	1/26/2012	<0.13	U		<0.26	U		<0.19	U		<0.36	U		<0.44	U		<0.2	U		<0.35	U		9.8		J	<0.32	U	
		VMP-9-38.5-041112	4/11/2012	0.0038	J	J	<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		0.0015	J		<0.017	U		0.0056			<0.0062	U	
		VMP-9-38.5-071312	7/13/2012	<0.013	J	U	<0.0067	U		<0.0049	J	U	<0.009	U		<0.011	U		0.0073			<0.022	U		<0.0036	J	U	<0.0081	U	
		VMP-9-38.5-101012	10/10/2012	<0.049	J	U	<0.025	U		<0.018	U		<0.034	U		<0.042	U		<0.019	U		<0.081	U		0.02			<0.03	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.004	J	U	<0.009	U		<0.006	U		<0.012	U		<0.003	U		<0.007	U		<0.012	U		<0.005	U		<0.011	U	
		VMP-18-8.5-090710	9/7/2010	0.0069			0.0012	J		<0.0059	U		<0.011	U		<0.0034	U		0.00097	J		<0.011	U		0.0063			<0.0099	U	
		VMP-18-8.5-111910	11/19/2010	<0.0034	U		<0.0068	U		<0.005	U		<0.0092	U		<0.0028	U		<0.0053	U		<0.0089	U		0.0041			<0.0083	U	
		VMP-18-8.5-020711	2/7/2011	<0.0037	J	U	<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		0.022		J	<0.0091	U	
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0036	U		<0.0072	U		<0.0053	U		<0.0098	U		<0.003	U		<0.0056	U		<0.0094	U		0.0092		J	<0.0088	U	
		VMP-18-8.5-040711	4/7/2011	<0.016	J	U	<0.0081	U		<0.0059	J	U	0.0023	J		<0.014	U		<0.0063	U		<0.011	U		0.0062			<0.0099	U	
		VMP-18-8.5-072811	7/28/2011	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0048	U		<0.011	U	
		VMP-18-8.5-110711	11/7/2011	<0.011	U		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		<0.0074	U		<0.0031	U		<0.0069	U	
		VMP-18-8.5-012312	1/23/2012	<0.012	J	U	<0.0061	U		<0.0045	J	U	<0.0083	U		<0.01	U		<0.0047	U		<0.008	U		<0.0033	U		<0.0074	U	
		VMP-18-8.5-041012	4/10/2012	<0.012	U		<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		<0.0049	U		<0.021	U		0.0099			<0.0077	U	
		VMP-18-8.5-071212	7/12/2012	<0.012	U		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		0.0025	J		<0.0075	U	
		VMP-18-8.5-100912	10/9/2012	<0.016	U		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.027	U		<0.0045	U		<0.01	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.004	J	U	<0.008	U		<0.006	U		<0.012	U		<0.003	U		0.00085	J		<0.011	U		0.0025	J		<0.01	U	
		VMP-19-5-090110	9/1/2010	<0.004	J	U	<0.0081	U		<0.0059	J	U	<0.011	U		<0.0034	U		0.00094	J		<0.011	U		0.049			<0.0099	U	
		VMP-19-5-111510	11/15/2010	0.0013	J		<0.0087	U		<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		0.0012	J		<0.011	U	
		VMP-19-5-020411	2/4/2011	<0.0038	J	U	<0.0076	U		<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		0.0065			<0.0093	J	U
		VMP-19-5-040711	4/7/2011	0.0013	J		<0.0085	U		0.00072	J		<0.012	U		<0.014	U		<0.0066	U		<0.011	U		0.0043	J		0.0012	J	
		VMP-19-5-080911	8/9/2011	<0.018	J	U	<0.0093	U		<0.0068	J	U	<0.013	U		<0.016	U		<0.0072	U		<0.012	U		0.05		J	<0.011	J	U
		VMP-19-5-080911-DUP	8/9/2011	<0.018	J	U	<0.0089	U		<0.0065	J	U	<0.012	U		<0.015	U		<0.0069	U		<0.012	U		0.035		J	<0.011	J	U
		VMP-19-5-110811	11/8/2011	<0.012	U		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.0081	U		<0.0034	U		<0.0075	U	
		VMP-19-5-012612	1/26/2012	<0.011	U		<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-19-5-041012	4/10/2012	<0.012	U		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		0.0046			<0.0075	U	
		VMP-19-5-071112	7/11/2012	<0.014	U		<0.007	U		<0.0051	U		<0.0095	U		<0.012	U		<0.0054	U		<0.023	U		<0.0038	U		<0.0086	U	
		VMP-19-5-100912	10/9/2012	0.0028	J		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.03	U		<0.0051	U		<0.011	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.1			<0.0076	U		0.038			<0.01	U		<0.013	U		0.031			<0.01	U		0.052			<0.0093	U	
		VMP-20-5-041511	4/15/2011	0.024	J		<0.084	U		<0.061	U		<0.11	U		<0.14	U		<0.065	U		<0.11	U		1.2			<0.1	U	
		VMP-20-5-072511	7/25/2011	0.011	J		<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		0.0012	J		0.0036	J		<0.0048	U		<0.011	J	U
		VMP-20-5-110111	11/1/2011	<0.01	J	U	<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		<0.0039	U		0.014			0.0011	J		<0.0062	U	
		VMP-20-5-012312	1/23/2012	0.0058	J		<0.024	U		<0.018	J	U	<0.033	U		<0.041	U		<0.019	U		<0.032	U		0.48			<0.03	U	
		VMP-20-5-041012	4/10/2012	<0.011	U		<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		0.007	J		0.0093			<0.0067	U	
		VMP-20-5-071112	7/11/2012	0.012	J		<0.0073	U		<0.0054	U		<0.0099	U		<0.012	U		<0.0057	U		<0.024	U		<0.004	U		<0.009	U	
		VMP-20-5-073112	7/31/2012	<0.012	U		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		0.0016	J		0.0018	J		<0.0075	U	
		VMP-20-5-100412	10/4/2012	0.0047	J	J	<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		<0.005	U		<0.011	U	
	10 ft	VMP-20-10-031411	3/14/2011	0.0041	J		<0.0076	U		<0.0056	U		<0.01	U		<0.013	U		0.0049	J		<0.01	U		0.0041			<0.0093	U	
		VMP-20-10-041511	4/15/2011	<0.038	U		<0.076	U		<0.056	U		<0.1	U		<0.13	U		<0.059	U		<0.1	U		0.27			<0.093	U	
		VMP-20-10-072511	7/25/2011	<0.016	J	U	<0.0081	U		0.00079	J		<0.011	U		<0.014	U		0.0033	J		<0.011	U		<0.0044	U		<0.0099	U	
		VMP-20-10-110111	11/1/2011	<0.011	J	U	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-20-10-012312	1/23/2012	<0.011	J	U	<0.0056	U		<0.0041	J	U	<0.0076	U		<0.0094	U		<0.0044	U		<0.0074	U		0.0046			<0.0069	U	
		VMP-20-10-041012	4/10/2012	0.0015	J	J	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		0.0051	J		0.012			<0.0066	U	
		VMP-20-10-071112	7/11/2012	0.0045	J		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		0.0031	J		<0.0034	U		<0.0075	U	
		VMP-20-10-100412	10/4/2012	<0.017	U		<0.0085	U		<0.0062	U		<0.011	U		<0.014	U		<0.0066	U		<0.028	U		<0.0046	U		<0.01	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.015	J	U	<0.0075	U		<0.0055	U		<0.01	U		<0.013	U		<0.0058	U		<0.0099	U		0.0019	J		<0.0092	U	
		VMP-20-25-041511	4/15/2011	<0.043	U		<0.087	U		<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		0.23			<0.11	U	
		VMP-20-25-072611	7/26/2011	<0.29	U		<0.58	U		<0.42	U		<0.78	U		<0.97	U		<0.45	U		<0.76	U		<0.32	U		<0.71	U	
		VMP-20-25-110511	11/5/2011	<0.01	J	U	<0.0053	U		<0.0039	J	U	<0.0072	U		<0.0089	U		<0.0041	U		<0.0069	U		<0.0029	U		<0.0064	U	
		VMP-20-25-012312	1/23/2012	<0.012	J	U	<0.0059	U		<0.0043	J	U	<0.008	U		<0.0099	U		<0.0046	U		<0.0077	U		<0.0032	U		<0.0072	U	
		VMP-20-25-041012	4/10/2012	<0.011	U		<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.018	U		0.0021	J		<0.0067	U	
		VMP-20-25-041012-Dup	4/10/2012	<0.011	U		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		<0.018	U		0.0021	J		<0.0069	U	
		VMP-20-25-071112	7/11/2012	0.0068	J		<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		<0.0049	U		<0.021	U		0.0011	J		<0.0077	U	
		VMP-20-25-100412	10/4/2012	<0.018	U		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.03	U		<0.0051	U		<0.011	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	4.2	J		<2.3	U		<1.7	U		<3.1	U		<3.8	U		<1.8	U		1.5	J		<1.2	U		<2.8	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<1.4	U		<2.9	U		<2.1	U		<4	U		<1.2	U		<2.3	U		<3.8	U		94			<3.6	U	
		VMP-21-5-020911-DUP	2/9/2011	<2.5	U		<5	U		<3.6	U		<6.8	U		<2.1	U		<3.9	U		<6.6	U		77			<6.1	U	
		VMP-21-5-041311	4/13/2011	0.0064	J		<0.0083	U		<0.0061	J	U	<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.4			<0.01	U	
		VMP-21-5-072511	7/25/2011	<0.017	J	U	<0.0087	U		<0.0064	J	U	<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0048	U		<0.011	U	
		VMP-21-5-110111	11/1/2011	<0.014	J	U	<0.0072	U		<0.0052	U		<0.0097	U		<0.012	U		<0.0056	U		<0.0094	U		0.0095			<0.0088	U	
		VMP-21-5-012312	1/23/2012	<0.012	J	U	<0.0061	U		<0.0045	J	U	<0.0083	U		<0.01	U		<0.0047	U		<0.008	U		<0.0033	U		<0.0074	U	
		VMP-21-5-012312-DUP	1/23/2012	<0.011	J	U	<0.0056	U		<0.0041	J	U	<0.0076	U		<0.0094	U		<0.0044	U		<0.0074	U		<0.0031	U		<0.0069	U	
		VMP-21-5-042412	4/24/2012	<0.023	J	U	<0.012	U		<0.0084	J	U	<0.016	U		<0.019	U		<0.0089	U		<0.038	U		0.041			<0.014	U	
		VMP-21-5-071012	7/10/2012	<0.013	U		<0.0067	U		<0.0049	J	U	<0.009	U		<0.011	U		<0.0052	U		<0.022	U		0.028			<0.0081	U	
		VMP-21-5-100412	10/4/2012	<0.019	U		<0.0098	U		<0.0072	U		<0.013	U		<0.016	U		<0.0076	U		<0.032	U		<0.0054	U		<0.012	U	
	10 ft	VMP-21-10-021011	2/10/2011	<1.3	U		<2.6	U		<1.9	U		<3.6	U		<1.1	U		<2	U		<3.5	U		72			<3.2	U	
		VMP-21-10-041311	4/13/2011	0.065	J		<0.33	U		<0.24	U		<0.45	U		<0.56	U		<0.26	U		<0.44	U		0.5			<0.41	U	
		VMP-21-10-072511	7/25/2011	<0.036	J	U	<0.018	U		<0.013	J	U	<0.025	U		<0.031	U		<0.014	U		<0.024	U		<0.01	U		<0.022	J	U
		VMP-21-10-110111	11/1/2011	<0.011	J	U	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-21-10-012312	1/23/2012	<0.012	J	U	<0.0061	U		<0.0045	J	U	<0.0083	U		<0.01	U		<0.0047	U		<0.008	U		0.00092	J		<0.0074	U	
		VMP-21-10-040912	4/9/2012	0.0018	J	J	<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.018	U		0.11			<0.0067	U	
		VMP-21-10-071012	7/10/2012	0.0043	J		<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		<0.0049	U		<0.021	U		0.00068	J		<0.0077	U	
		VMP-21-10-100412	10/4/2012	<0.018	U		<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		<0.0069	U		<0.029	U		0.0015	J		<0.011	U	
	25 ft	VMP-21-25-021011	2/10/2011	<3.6	U		<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		370			<9	U	
		VMP-21-25-041411	4/14/2011	<13	U		<26	U		<19	U		<35	U		<43	U		<20	U		<34	U		300			<31	U	
		VMP-21-25-041411-DUP	4/14/2011	<13	U		<26	U		<19	U		<35	U		<43	U		<20	U		<34	U		300			<31	U	
		VMP-21-25-072611	7/26/2011	<4.1	U		<8.3	U		<6.1	U		<11	U		<14	U		<6.4	U		<11	U		290			<10	U	
		VMP-21-25-110511	11/5/2011	4.5	J		<5.3	U		2	J		<7.2	U		<8.9	U		<4.1	U		<6.9	U		6.2			<6.4	U	
		VMP-21-25-012412	1/24/2012	<0.036	U		<0.073	U		<0.053	U		<0.099	U		<0.12	U		<0.057	U		<0.096	U		0.0057	J		<0.089	U	
		VMP-21-25-040912	4/9/2012	0.0028	J		<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.12			<0.007	U	
		VMP-21-25-071112	7/11/2012	0.0046	J		<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.0011	J		<0.007	U	
		VMP-21-25-100412	10/4/2012	<0.018	U		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.03	U		0.0022	J		<0.011	U	
	33 ft	VMP-21-33-021011	2/10/2011	<3.6	U		<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		410			<9	U	
		VMP-21-33-041411	4/14/2011	<12	U		<25	U		<18	U		<34	U		<42	U		<19	U		<32	U		290			<30	U	
		VMP-21-33-110511	11/5/2011	1.1	J		<1.2	U		0.52	J		<1.6	U		<2	U		<0.93	U		<1.6	U		0.38	J		<1.5	U	
		VMP-21-33-012412	1/24/2012	<0.085	U		<0.17	U		<0.12	U		<0.23	U		<0.29	U		<0.13	U		<0.22	U		0.38		J	<0.21	U	
		VMP-21-33-042412	4/24/2012	<0.012	J	U	<0.0059	U		<0.0043	J	U	<0.008	U		<0.0099	U		<0.0046	U		<0.019	U		0.0051			<0.0072	U	
		VMP-21-33-071112	7/11/2012	0.0042	J		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		<0.0034	U		<0.0075	U	
		VMP-21-33-100412	10/4/2012	<0.018	U		<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		<0.0069	U		<0.029	U		0.0026	J		<0.011	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.08	U		<0.16	U		<0.12	U		<0.22	U		<0.068	U		<0.12	U		<0.21	U		<0.088	U		<0.2	U	
		VMP-22-5-041811	4/18/2011	<0.039	U		<0.079	U		<0.058	U		<0.11	U		<0.13	U		<0.062	U		<0.1	U		<0.043	U		<0.097	U	
		VMP-22-5-072611	7/26/2011	<0.018	J	U	<0.0093	U		<0.0068	J	U	<0.013	U		<0.016	U		<0.0072	U		<0.012	U		0.021			<0.011	J	U
		VMP-22-5-110111	11/1/2011	<0.01	J	U	<0.0053	U		<0.0039	U		<0.0072	U		<0.0089	U		0.0018	J		0.0018	J		<0.0029	U		<0.0064	U	
		VMP-22-5-012412	1/24/2012	<0.011	J	U	<0.0056	U		<0.0041	J	U	<0.0075	U		<0.0093	U		<0.0043	U		<0.0073	U		0.29		J	<0.0068	U	
		VMP-22-5-040912	4/9/2012	0.0047	J		<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		0.021			<0.0075	U	
		VMP-22-5-070912	7/9/2012	0.0074	J		<0.0068	U		<0.005	U		<0.0092	U		<0.011	U		<0.0053	U		<0.022	U		<0.0037	U		<0.0083	U	
		VMP-22-5-100312	10/3/2012	<0.016	U		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		<0.026	U		<0.0043	U		<0.0097	U	
		VMP-22-5-100312-Dup	10/3/2012	<0.014	U		<0.0072	U		<0.0053	U		<0.0098	U		<0.012	U		<0.0056	U		<0.024	U		0.0018	J		<0.0088	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.038	U		<0.077	U		<0.056	U		<0.1	U		<0.032	U		<0.06	U		<0.1	U		0.19			<0.094	U	
		VMP-22-10-041811	4/18/2011	<0.041	U		<0.082	U		<0.06	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.045	U		<0.1	U	
		VMP-22-10-072611	7/26/2011	<0.019	J	U	<0.0095	U		<0.007	J	U	<0.013	U		<0.016	U		0.012			<0.012	U		0.0046	J		<0.012	J	U
		VMP-22-10-072611-DUP	7/26/2011	<0.022	J	U	<0.011	U		<0.0082	J	U	<0.015	U		<0.019	U		0.012			<0.015	U		0.0063			<0.014	J	U
		VMP-22-10-110211	11/2/2011	<0.011	J	U	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		0.014			<0.0071	U		<0.0029	U		<0.0066	U	
		VMP-22-10-012412	1/24/2012	<0.012	J	U	<0.0061	U		<0.0045	J	U	<0.0083	U		<0.01	U		0.0071			<0.008	U		0.001	J		<0.0074	U	
		VMP-22-10-040912	4/9/2012	0.0032	J		<0.0061	U		<0.0044	U		<0.0082	U		<0.01	U		0.0024	J		<0.02	U		0.013			<0.0074	U	
		VMP-22-10-070912	7/9/2012	<0.014	U		<0.0068	U		<0.005	U		<0.0092	U		<0.011	U		0.0011	J		<0.022	U		<0.0037	U		<0.0083	U	
		VMP-22-10-070912-Dup	7/9/2012	<0.013	U		<0.0067	U		<0.0049	U		<0.009	U		<0.011	U		0.0011	J		<0.022	U		<0.0036	U		<0.0081	U	
		VMP-22-10-100312	10/3/2012	<0.015	U		<0.0076	U		<0.0056	U		<0.01	U		<0.013	U		<0.0059	U		<0.025	U		0.0032	J		<0.0093	U	
	18 ft	VMP-22-18-021111	2/11/2011	<0.66	U		<1.3	U		<0.98	U		<1.8	U		<0.56	U		<1	U		<1.8	U		65			<1.6	U	
		VMP-22-18-041811	4/18/2011	<2.8	U		<5.7	U		<4.1	U		<7.7	U		<9.5	U		<4.4	U		<7.4	U		58			<6.9	U	
		VMP-22-18-072611	7/26/2011	<1.4	U		<2.9	U		<2.1	U		<3.9	U		<4.8	U		<2.2	U		<3.8	U		39			<3.5	U	
		VMP-22-18-110511	11/5/2011	<0.011	J	U	0.0007	J		<0.0042	J	U	<0.0078	U		<0.0096	U		0.094			<0.0076	U		<0.0031	U		<0.007	U	
		VMP-22-18-012412	1/24/2012	<0.026	U		<0.053	U		<0.039	U		<0.072	U		<0.089	U		<0.041	U		<0.069	U		<0.029	U		<0.064	U	
		VMP-22-18-040912	4/9/2012	0.0039	J		<0.0063	U		<0.0046	U		<0.0086	U		<0.011	U		0.089			<0.021	U		0.008			<0.0077	U	
		VMP-22-18-070912	7/9/2012	<0.013	U		<0.0067	U		<0.0049	U		<0.009	U		<0.011	U		0.049			<0.022	U		<0.0036	U		<0.0081	U	
		VMP-22-18-100412	10/4/2012	<0.018	U		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		0.013			<0.03	U		<0.005	U		<0.011	U	
	38 ft	VMP-22-38-041811	4/18/2011	<8.6	U		<17	U		<13	U		<24	U		<29	U		<13	U		<23	U		240			<21	U	
		VMP-22-38-012512	1/25/2012	<0.1	U		<0.053	U		<0.039	U		<0.072	U		<0.089	U		<0.041	U		<0.069	U		<0.029	U		<0.064	U	
		VMP-22-38-040912	4/9/2012	0.0045	J		<0.0061	U		<0.0045	U		<0.0083	U		<0.01	U		0.35			<0.02	U		0.014			<0.0075	U	
		VMP-22-38-070912	7/9/2012	<0.013	U		<0.0065	U		<0.0047	U		<0.0088	U		<0.011	U		0.31			<0.021	U		0.00078	J		<0.0079	U	
		VMP-22-38-100412	10/4/2012	<0.019	J	U	<0.0095	U		<0.007	U		<0.013	U		<0.016	U		0.075			<0.031	U		0.0012	J		<0.012	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0041	J	U	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		0.0013	J		<0.011	U		0.0054			<0.01	U	
		VMP-23-5-042111	4/21/2011	<0.036	U		<0.072	U		<0.053	U		<0.098	U		<0.12	U		<0.056	U		<0.094	U		<0.039	U		<0.088	U	
		VMP-23-5-072711	7/27/2011	0.0032	J		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.0068			<0.01	U	
		VMP-23-5-110211	11/2/2011	<0.012	J	U	<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		<0.0046	U		<0.0077	U		<0.0032	U		<0.0072	U	
		VMP-23-5-012512	1/25/2012	<0.0098	U		<0.005	U		<0.0036	U		<0.0067	U		<0.0083	U		0.0022	J		<0.0065	U		0.0022	J		<0.0061	U	
		VMP-23-5-040912	4/9/2012	0.0074	J		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		<0.02	U		0.0031	J		<0.0073	U	
		VMP-23-5-070912	7/9/2012	0.0042	J		<0.0054	U		<0.0039	J	U	<0.0073	U		<0.009	U		<0.0042	U		0.0044	J		0.0022	J		<0.0066	U	
		VMP-23-5-100312	10/3/2012	<0.018	J	U	<0.0091	U		<0.0066	J	U	<0.012	U		<0.015	U		<0.007	U		<0.03	U		0.0019	J		<0.011	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0042	U		<0.0086	U		<0.0063	J	U	<0.012	U		<0.0036	U		0.0015	J		<0.011	U		0.0044	J		<0.01	U	
		VMP-23-10-042111	4/21/2011	<0.043	U		<0.087	U		<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		0.94			<0.11	U	
		VMP-23-10-072711	7/27/2011	<0.016	U		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		<0.01	U		<0.0043	U		<0.0097	U	
		VMP-23-10-110211	11/2/2011	<0.011	J	U	<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		<0.0076	U		<0.0031	U		<0.007	U	
		VMP-23-10-012512	1/25/2012	<0.0096	U		<0.0049	U		<0.0036	U		<0.0066	U		<0.0082	U		0.0067			<0.0064	U		0.2			<0.006	U	
		VMP-23-10-040912	4/9/2012	0.0049	J		<0.0061	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		<0.02	U		<0.0034	U		<0.0075	U	
		VMP-23-10-040912-Dup	4/9/2012	0.0042	J		0.0021	J		<0.0045	U		<0.0083	U		<0.01	U		0.0034	J		0.014	J		0.0017	J		<0.0075	U	
		VMP-23-10-070912	7/9/2012	<0.0096	U		<0.0049	U		<0.0036	J	U	<0.0066	U		<0.0082	U		0.0012	J		0.0036	J		0.00069	J		<0.006	U	
		VMP-23-10-100312	10/3/2012	<0.019	J	U	<0.0098	U		<0.0072	J	U	<0.013	U		<0.016	U		<0.0076	U		0.0082	J		0.0063			<0.012	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0039	U		<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		0.0032	J		<0.0097	U	
		VMP-23-25-042111	4/21/2011	<0.04	U		<0.081	U		<0.059	U		<0.11	U		<0.14	U		<0.063	U		<0.11	U		1.2			<0.099	U	
		VMP-23-25-072711	7/27/2011	0.0077	J		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.012	U		0.0026	J		0.0026	J	
		VMP-23-25-110511	11/5/2011	<0.011	J	U	<0.0058	U		<0.0042	J	U	<0.0078	U		<0.0096	U		<0.0045	U		<0.0076	U		<0.0031	U		<0.007	U	
		VMP-23-25-012512	1/25/2012	<0.01	U		<0.0052	U		<0.0038	U		<0.007	U		<0.0086	U		0.0027	J		<0.0068	U		0.15			<0.0063	U	
		VMP-23-25-040912	4/9/2012	0.0076	J		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		0.0034	J		0.017	J		0.007			<0.0073	U	
		VMP-23-25-071012	7/10/2012	<0.015	U		<0.0077	U		<0.0056	J	U	<0.01	U		<0.013	U		0.0055	J		0.015	J		0.0018	J		<0.0094	U	
		VMP-23-25-100312	10/3/2012	<0.019	J	U	<0.0095	U		<0.007	J	U	<0.013	U		<0.016	U		0.0046	J		<0.031	U		0.0064			<0.012	U	
	40 ft	VMP-23-40-071012	7/10/2012	<0.013	U		<0.0065	U		<0.0047	J	U	<0.0088	U		<0.011	U		<0.005	U		<0.021	U		0.0025	J		<0.0079	U	
		VMP-23-40-100312	10/3/2012	<0.018	J	U	<0.0088	U		<0.0065	J	U	<0.012	U		<0.015	U		<0.0069	U		<0.029	U		0.0068			<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0044	J	U	<0.0089	U		<0.0065	U		<0.012	U		<0.0037	U		<0.0069	U		<0.012	U		0.0032	J		<0.011	U	
		VMP-24-5-040811	4/8/2011	0.042	J		<0.095	U		<0.069	U		<0.13	U		<0.16	U		<0.073	U		<0.12	U		0.71			<0.12	U	
		VMP-24-5-072811	7/28/2011	0.037			<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		<0.0069	U		0.0049	J		0.004	J		0.0024	J	
		VMP-24-5-110211	11/2/2011	<0.012	J	U	<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		<0.0046	U		<0.0077	U		<0.0032	U		<0.0072	U	
		VMP-24-5-110211-DUP	11/2/2011	<0.016	J	U	<0.0082	U		<0.006	U		<0.011	U		<0.014	U		<0.0063	U		<0.011	U		<0.0045	U		<0.01	U	
		VMP-24-5-012512	1/25/2012	<0.01	U		<0.0051	U		<0.0037	U		<0.0068	U		<0.0085	U		<0.0039	U		<0.0066	U		<0.0028	U		<0.0062	U	
		VMP-24-5-040912	4/9/2012	0.007	J		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		0.011	J		0.0016	J		<0.0073	U	
		VMP-24-5-071212	7/12/2012	<0.011	U		<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		0.0016	J		0.0019	J		<0.007	U	
		VMP-24-5-101912	10/19/2012	<0.018	J	U	<0.0089	U		<0.0065	J	U	<0.012	U		<0.015	U		<0.0069	U		<0.029	U		0.0015	J		<0.011	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0042	J	U	<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		0.11			<0.01	U	
		VMP-24-10-041111	4/11/2011	0.0049	J		<0.016	U		<0.012	U		<0.021	U		<0.026	U		<0.012	U		<0.021	U		0.15			<0.019	U	
		VMP-24-10-072811	7/28/2011	0.0037	J		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		0.0016	J		0.0015	J	
		VMP-24-10-110211	11/2/2011	<0.01	J	U	<0.0052	U		<0.0038	U		<0.007	U		<0.0086	U		<0.004	U		0.0016	J		<0.0028	U		<0.0063	U	
		VMP-24-10-012512	1/25/2012	<0.0096	U		<0.0049	U		<0.0036	U		<0.0066	U		<0.0082	U		<0.0038	U		<0.0064	U		<0.0027	U		<0.006	U	
		VMP-24-10-041012	4/10/2012	<0.011	U		<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.0022	J		<0.007	U	
		VMP-24-10-071212	7/12/2012	<0.013	U		<0.0067	U		<0.0049	U		<0.009	U		<0.011	U		<0.0052	U		0.0097	J		<0.0036	U		<0.0081	U	
		VMP-24-10-100912	10/9/2012	<0.016	U		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.027	U		<0.0045	U		<0.01	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0042	J	U	<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		0.067			<0.01	U	
		VMP-24-22-041111	4/11/2011	0.00074	J		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		0.0039	J		<0.0043	U		<0.0097	U	
		VMP-24-22-072811	7/28/2011	0.003	J		<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		<0.01	U		<0.0043	U		0.0016	J	
		VMP-24-22-072811-Dup	7/28/2011	0.0028	J		<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		<0.007	U		<0.012	U		<0.005	U		<0.011	U	
		VMP-24-22-110611	11/6/2011	<0.011	J	U	<0.0055	U		<0.004	J	U	<0.0074	U		<0.0092	U		<0.0043	J	U	<0.0072	U		0.0011	J		<0.0067	U	
		VMP-24-22-012512	1/25/2012	<0.01	U		<0.0052	U		<0.0038	U		<0.007	U		<0.0086	U		<0.004	U		<0.0068	U		<0.0028	U		<0.0063	U	
		VMP-24-22-041012	4/10/2012	0.002	J		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		0.011	J		0.0082			<0.0069	U	
		VMP-24-22-071212	7/12/2012	<0.014	U		<0.0068	U		<0.005	U		<0.0092	U		<0.011	U		<0.0053	U		0.0026	J		0.001	J		<0.0083	U	
		VMP-24-22-100912	10/9/2012	<0.017	U		<0.0085	U		<0.0062	U		<0.011	U		<0.014	U		<0.0066	U		<0.028	U		<0.0046	U		<0.01	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0042	J	U	<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		0.0036	J		0.0024	J		<0.01	U	
		VMP-24-34-041111	4/11/2011	<0.015	U		<0.0076	U		<0.0056	U		0.0027	J		<0.013	U		0.00071	J		<0.01	U		0.0018	J		<0.0093	U	
		VMP-24-34-072811	7/28/2011	0.0042	J		<0.0067	U		<0.0049	U		<0.0091	U		<0.011	U		<0.0052	U		<0.0088	U		0.00092	J		<0.0082	U	
		VMP-24-34-110611	11/6/2011	<0.0085	J	U	<0.0043	U		<0.0031	J	U	<0.0058	U		<0.0072	U		<0.0033	U		<0.0056	U		0.0009	J		<0.0052	U	
		VMP-24-34-012512	1/25/2012	<0.01	U		<0.0053	U		<0.0039	U		<0.0072	U		<0.0089	U		0.00092	J		<0.0069	U		<0.0029	U		<0.0064	U	
		VMP-24-34-041012	4/10/2012	0.0021	J		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		<0.0046	U		0.01	J		0.0072			<0.0072	U	
		VMP-24-34-071212	7/12/2012	<0.011	U		<0.0056	U		<0.0041	U		<0.0076	U		<0.0094	U		<0.0044	U		<0.018	U		0.0022	J		<0.0069	U	
		VMP-24-34-100912	10/9/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.028	U		0.0018	J		<0.011	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	0.0085	J		<0.006	U		<0.0044	J	U	<0.0081	U		<0.01	U		<0.0047	U		<0.02	U		<0.0033	U		<0.0073	U	
		VMP-31-5-072012	7/20/2012	0.045			<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		0.0036	J		<0.0033	U		<0.0073	U	
		VMP-31-5-102612	10/26/2012	<0.017	U		<0.0087	U		0.0015	J		<0.012	U		<0.014	U		<0.0067	U		0.004	J		0.014			<0.011	U	
	10 ft	VMP-31-10-042512	4/25/2012	<0.016	J	U	<0.008	U		<0.0059	J	U	<0.011	U		<0.013	U		<0.0062	U		<0.026	U		0.018			<0.0098	U	
		VMP-31-10-072612	7/26/2012	<0.012	J	U	<0.0061	U		<0.0045	J	U	<0.0083	U		<0.01	U		0.0031	J		<0.02	U		<0.0034	U		<0.0075	U	
		VMP-31-10-102612	10/26/2012	<0.018	U		<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.03	U		0.0022	J		<0.011	U	
	20 ft	VMP-31-20-101912	10/19/2012	<4.3	U		<8.7	U		<6.4	U		<12	U		<14	U		<6.7	U		<11	U		4.4	J		<11	U	
	30 ft	VMP-31-30-042512	4/25/2012	0.58	J		<3.1	U		<2.2	U		<4.2	U		<5.2	U		<2.4	U		<4	U		34			<3.8	U	
		VMP-31-30-042512-Dup	4/25/2012	0.61	J		<3.1	U		<2.2	U		<4.2	U		<5.2	U		<2.4	U		<4	U		38			<3.8	U	
		VMP-31-30-072012	7/20/2012	<1.2	U		<0.6	U		<0.44	U		<0.81	U		<1	U		<0.47	U		<2	U		0.4			<0.73	U	
		VMP-31-30-101912	10/19/2012	0.025	J		<0.54	U		<0.4	U		<0.73	U		<0.91	U		<0.42	U		<0.71	U		0.42			<0.66	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	<0.012	J	U	<0.0059	U		<0.0043	J	U	<0.008	U		<0.0099	U		<0.0046	U		<0.019	U		0.00091	J		<0.0072	U	
		VMP-32-5-072012	7/20/2012	0.0036	J		<0.0053	U		0.0014	J		<0.0072	U		<0.0089	U		<0.0041	U		0.0022	J		0.0034			<0.0064	U	
		VMP-32-5-101812	10/18/2012	<0.02	U		<0.01	U		0.0044	J		<0.014	U		<0.017	U		<0.0078	U		<0.033	U		0.016			<0.012	U	
	10 ft	VMP-32-10-041612	4/16/2012	<0.011	J	U	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		<0.0042	U		0.0016	J		0.0024	J		<0.0066	U	
		VMP-32-10-072012	7/20/2012	<0.012	U		<0.0062	U		0.0019	J		<0.0083	U		<0.01	U		<0.0048	U		0.0013	J		0.0022	J		<0.0075	U	
		VMP-32-10-101812	10/18/2012	0.007	J		<0.0093	U		0.0025	J		<0.013	U		<0.016	U		<0.0072	U		0.003	J		0.012			<0.011	U	
	20 ft	VMP-32-20-041612	4/16/2012	0.34			<0.12	U		<0.09	U		<0.17	U		<0.21	U		<0.096	U		<0.4	U		0.21			<0.15	U	
		VMP-32-20-072012	7/20/2012	<0.012	U		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		<0.0047	U		0.0064	J		<0.0033	U		<0.0073	U	
		VMP-32-20-101812	10/18/2012	<0.017	U		<0.0087	U		0.0025	J		<0.012	U		<0.014	U		<0.0067	U		<0.028	U		0.0076			<0.011	U	
	30 ft	VMP-32-30-041612	4/16/2012	<1.4	U		<2.9	U		<2.2	U		<4	U		<4.9	U		<2.3	U		<3.9	U		360			<3.6	U	
		VMP-32-30-072012	7/20/2012	<3	U		<6.1	U		<4.4	U		<8.2	U		<10	U		<4.7	U		<8	U		200			<7.4	U	
		VMP-32-30-101812	10/18/2012	<0.17	U		<0.35	U		<0.25	U		<0.47	U		<0.58	U		<0.27	U		<0.45	U		0.44			<0.42	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	<0.011	J	U	<0.0054	U		<0.0039	U		<0.0073	U		<0.009	U		0.0035	J		<0.018	U		0.047		J	<0.0066	U	
		VMP-42-10-041812-Dup	4/18/2012	<0.011	J	U	<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.018	U		0.036		J	<0.0067	U	
		VMP-42-10-071912	7/19/2012	0.0063	J		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		0.0022	J		<0.02	U		0.0028	J		<0.0073	U	
		VMP-42-10-101212	10/12/2012	<0.019	U		<0.0097	U		<0.0071	U		<0.013	U		<0.016	U		<0.0075	U		<0.032	U		<0.0053	U		<0.012	U	
	20 ft	VMP-42-20-041812	4/18/2012	8.6			<2.8	U		<2.1	U		<3.8	U		<4.7	U		<2.2	U		<9.2	U		3			<3.4	U	
		VMP-42-20-071912	7/19/2012	0.0068	J		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		0.1			<0.019	J	U	0.013			<0.0072	U	
		VMP-42-20-101212	10/12/2012	<0.017	U		<0.0086	U		<0.0063	U		<0.012	U		<0.014	U		0.035			<0.028	U		<0.0047	U		<0.01	U	
		VMP-42-20-101212-Dup	10/12/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		0.036			<0.028	U		0.0011	J		<0.011	U	
	30 ft	VMP-42-30-041912	4/19/2012	<2.9	U		<5.9	U		<4.3	U		<8	U		<9.9	U		<4.6	U		<7.7	U		22			<7.2	U	
		VMP-42-30-071912	7/19/2012	0.03		J	<0.0055	U		<0.004	U		<0.0074	U		<0.0092	U		<0.0043	U		<0.018	U		0.23		J	<0.0067	U	
		VMP-42-30-101212	10/12/2012	0.018			<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		0.005	J		0.0085	J		0.009			<0.011	U	
		VMP-42-30-101212-Dup	10/12/2012	0.018			<0.0091	U		<0.0066	U		<0.012	U		<0.015	U		0.0051	J		0.0091	J		0.0093			<0.011	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	0.02			<0.0062	U		<0.0045	U		<0.0083	U		<0.01	U		<0.0048	U		0.0024	J		0.011			<0.0075	U	
		VMP-43-10-071912	7/19/2012	0.0059	J		<0.012	U		<0.0086	U		<0.016	U		<0.02	U		0.0018	J		<0.039	U		0.01			<0.014	U	
		VMP-43-10-101612	10/16/2012	0.015	J		<0.01	U		<0.0073	U		<0.014	U		<0.017	U		<0.0078	U		<0.033	U		<0.0055	U		<0.012	U	
	20 ft	VMP-43-20-041612	4/16/2012	0.086			<0.06	U		<0.044	U		<0.081	U		<0.1	U		<0.047	U		<0.079	U		0.55			<0.073	U	
		VMP-43-20-071912	7/19/2012	0.018	J		<0.022	U		<0.016	U		<0.029	U		<0.036	U		0.0031	J		<0.071	U		0.0097	J		<0.026	U	
		VMP-43-20-101812	10/18/2012	<0.016	U		<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		0.0053	J		<0.027	U		<0.0045	U		<0.01	U	
	30 ft	VMP-43-30-042312	4/23/2012	0.012	J		<0.055	U		<0.04	U		<0.074	U		<0.092	U		<0.043	U		<0.072	U		0.0054	J		<0.067	U	
		VMP-43-30-071912	7/19/2012	0.011	J		<0.006	U		<0.0044	U		<0.0081	U		<0.01	U		0.0017	J		<0.02	J	U	0.0052			<0.0073	U	
		VMP-43-30-101812	10/18/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		0.0082			<0.028	U		0.0025	J		<0.011	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<1.4	U		<2.9	U		<2.1	U		<3.9	U		<4.8	U		<2.2	U		<3.8	U		220			<3.5	U	
		VMP-44-10-072012	7/20/2012	<0.48	U		<0.96	U		<0.71	U		<1.3	U		<1.6	U		<0.75	U		<1.3	U		<0.53	U		<1.2	U	
		VMP-44-10-081012	8/10/2012	<0.28	U		<0.58	U		<0.42	U		<0.78	U		<0.96	U		<0.45	U		<0.76	U		<0.31	U		<0.7	U	
		VMP-44-10-101212	10/12/2012	<0.88	U		<1.8	U		<1.3	U		<2.4	U		<3	U		<1.4	U		<2.3	U		13			<2.2	U	
	20 ft	VMP-44-20-041912	4/19/2012	0.35			<0.63	U		<0.46	U		<0.86	U		<1.1	U		<0.49	U		<0.83	U		110			<0.77	U	
		VMP-44-20-072512	7/25/2012	0.061	J	J	<1.1	U		<0.79	U		<1.5	U		<1.8	U		<0.84	U		<1.4	U		120		J	<1.3	U	
		VMP-44-20-101212	10/12/2012	<1.8	U		<3.6	U		<2.6	U		<4.8	U		<6	U		<2.8	U		<4.7	U		29			<4.4	U	
	30 ft	VMP-44-30-041912	4/19/2012	0.038	J		<0.37	U		<0.27	U		<0.5	U		<0.62	U		<0.28	U		<0.48	U		13			<0.45	U	
		VMP-44-30-072512	7/25/2012	0.28			<0.062	U		<0.045	U		<0.083	U		<0.1	U		<0.048	U		<0.081	U		2.1			<0.075	U	
		VMP-44-30-072512-Dup	7/25/2012	0.28			<0.062	U		<0.045	U		<0.083	U		<0.1	U		<0.048	U		<0.081	U		2.1			<0.075	U	
		VMP-44-30-101512	10/15/2012	<0.75	U		<0.38	U		<0.28	U		<0.52	U		<0.64	U		<0.3	U		<1.2	U		5.9			<0.46	U	
		VMP-44-30-101512-Dup	10/15/2012	0.22	J	J	<0.36	U		<0.26	U		<0.48	U		<0.6	U		<0.28	U		<1.2	U		5.7			<0.43	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				780			0.21			69			57000						0.11									0.011		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	<0.011	J	U	<0.0058	U		<0.0042	U		<0.0078	U		<0.0096	U		<0.0045	U		<0.019	U		0.0012	J		<0.007	U	
		VMP-45-10-071912	7/19/2012	0.0055	J		<0.0059	U		<0.0043	U		<0.008	U		<0.0099	U		0.0022	J		<0.019	J	U	0.0018	J		<0.0072	U	
		VMP-45-10-101512	10/15/2012	<0.018	J	U	<0.0092	U		<0.0067	U		<0.012	U		<0.015	U		0.0052	J		<0.03	U		0.00093	J		<0.011	U	
	20 ft	VMP-45-20-041912	4/19/2012	<0.18	U		<0.36	U		<0.26	U		<0.48	U		<0.6	U		<0.28	U		<0.47	U		2.4			<0.44	U	
		VMP-45-20-071912	7/19/2012	0.26			<0.11	U		<0.082	U		<0.15	U		<0.19	U		0.013	J		<0.37	U		0.22			<0.14	U	
		VMP-45-20-101512	10/15/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		0.016			<0.028	U		0.0064			<0.011	U	
	30 ft	VMP-45-30-041912	4/19/2012	0.036	J	J	<0.24	U		<0.18	U		<0.32	U		<0.4	U		<0.19	U		<0.32	U		3.4		J	<0.29	U	
		VMP-45-30-071912	7/19/2012	<0.03	U		<0.06	U		<0.044	U		<0.081	U		<0.1	U		<0.047	U		<0.079	U		0.072			<0.073	U	
		VMP-45-30-101512	10/15/2012	<0.017	U		<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		0.02			<0.028	U		0.0071			<0.011	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.017	J	U	<0.0086	U		<0.0063	U		<0.012	U		<0.014	U		0.021			<0.028	U		0.0075			<0.01	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	<0.026	U		<0.026	U		<0.026	U		0.0028	J		<0.017	U		<0.017	U		<0.017	U		<0.017	U		<0.017	U	
		VMP-1-5-111710	11/17/2010	<0.031	U		<0.031	U		<0.031	U		<0.025	U		<0.021	U		<0.021	U		<0.02	U		<0.02	U		<0.02	U	
		VMP-1-5-020411	2/4/2011	<0.61	U		<0.61	U		<0.61	U		<0.5	U		<0.41	U		<0.41	U		<0.4	U		<0.4	U		<0.4	U	
		VMP-1-5-041211	4/12/2011	<0.0079	U		<0.0079	U		<0.0079	J	U	0.002	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-1-5-080111	8/1/2011	<0.0079	U		0.0014	J		0.0024	J		0.0023	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-1-5-110311	11/3/2011	<21	U		<21	U		<21	U		<17	U		<14	U		<14	U		<14	U		<14	U		<14	U	
		VMP-1-5-013012	1/30/2012	<1.8	U		<1.8	U		<1.8	U		<1.4	U		<1.2	U		<1.2	U		<1.2	U		<1.2	U		<1.2	U	
		VMP-1-5-041312	4/13/2012	<0.0054	U		<0.0054	U		<0.0054	J	U	0.0024	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-1-5-071612	7/16/2012	<0.0055	U		<0.0055	U		<0.0055	J	U	0.0026	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-1-5-101112	10/11/2012	<0.014	U		<0.014	U		<0.014	U		0.0025	J		<0.0093	U		<0.0093	U		<0.0091	U		<0.0091	U		<0.0091	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	<0.077	U		<0.077	U		<0.077	U		<0.064	U		<0.052	U		<0.052	U		<0.051	U		<0.051	U		<0.051	U	
		VMP-1-8.5-111710	11/17/2010	<0.015	U		<0.015	U		<0.015	U		0.0023	J		<0.01	U		<0.01	U		<0.0098	U		<0.0098	U		<0.0098	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.015	U		<0.015	U		<0.015	U		0.0024	J		<0.01	U		<0.01	U		<0.0098	U		<0.0098	U		<0.0098	U	
		VMP-1-8.5-020411	2/4/2011	<1.2	U		<1.2	U		<1.2	U		<0.98	U		<0.8	U		<0.8	U		<0.79	U		<0.79	U		<0.79	U	
		VMP-1-8.5-041211	4/12/2011	<0.01	U		<0.01	U		<0.01	J	U	0.002	J		<0.007	U		0.0012	J		<0.0069	U		<0.0069	U		<0.0069	U	
		VMP-1-8.5-080111	8/1/2011	<4.3	U		<4.3	U		<4.3	U		<3.6	U		<2.9	U		<2.9	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<4.2	U		<4.2	U		<4.2	U		<3.5	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-1-8.5-110311	11/3/2011	<48	U		<48	U		<48	U		<40	U		<32	U		<32	U		<32	U		<32	U		<32	U	
		VMP-1-8.5-013012	1/30/2012	<10	U		<10	U		<10	U		<8.6	U		<7.1	U		<7.1	U		<6.9	U		<6.9	U		<6.9	U	
		VMP-1-8.5-041612	4/16/2012	<0.0064	U		<0.0064	U		<0.0064	J	U	0.0028	J		<0.0043	U		0.0035	J		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-1-8.5-041612-Dup	4/16/2012	<0.0062	U		<0.0062	U		<0.0062	J	U	0.003	J		<0.0042	U		0.0015	J		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-1-8.5-071612	7/16/2012	<0.0055	U		<0.0055	U		<0.0055	J	U	0.0026	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-1-8.5-101112	10/11/2012	<0.0085	U		<0.0085	J	U	<0.0085	J	U	0.0021	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<2.7	U		<2.7	U		<2.7	U		<2.2	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-1-23.5-111810	11/17/2010	<0.0074	U		<0.0074	U		<0.0074	U		0.0023	J		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-1-23.5-020411	2/4/2011	<7	U		<7	U		<7	U		<5.8	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		<4.6	U	
		VMP-1-23.5-041211	4/12/2011	<11	U		<11	U		<11	U		<9.4	U		<7.7	U		<7.7	U		<7.5	U		<7.5	U		<7.5	U	
		VMP-1-23.5-041211-DUP	4/12/2011	<14	U		<14	U		<14	U		<12	U		<9.7	U		<9.7	U		<9.5	U		<9.5	U		<9.5	U	
		VMP-1-23.5-080111	8/1/2011	<78	U		<78	U		<78	U		<64	U		<52	U		<52	U		<51	U		<51	U		<51	U	
		VMP-1-23.5-110611	11/6/2011	<18	U		<18	U		<18	U		<15	U		<12	U		<12	U		<12	U		<12	U		<12	U	
		VMP-1-23.5-013112	1/31/2012	<36	U		<36	U		<36	U		<30	U		<24	U		<24	U		<24	U		<24	U		<24	U	
		VMP-1-23.5-041612	4/16/2012	<2.9	U		<2.9	U		<2.9	U		<2.4	U		<1.9	U		<1.9	U		<1.9	U		<1.9	U		<1.9	U	
		VMP-1-23.5-071612	7/16/2012	<36	U		<36	U		<36	U		<30	U		<24	U		<24	U		<24	U		<24	U		<24	U	
		VMP-1-23.5-102412	10/24/2012	<72	U		<72	U		<72	U		<60	U		<49	U		<49	U		<48	U		<48	U		<48	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0025	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-1-38.5-102612	10/26/2012	<3.9	U		<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<2.7	U		<2.7	U		<2.7	U		<2.2	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-2-5-111610	11/16/2010	<4	U		<4	U		<4	U		<3.3	U		<2.7	U		<2.7	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-2-5-020411	2/4/2011	<1	U		<1	U		<1	U		<0.85	U		<0.7	U		<0.7	U		<0.68	U		<0.68	U		<0.68	U	
		VMP-2-5-041311	4/13/2011	<0.0084	U		<0.0084	U		<0.0084	J	U	0.0022	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-2-5-080211	8/2/2011	<8.7	U		<8.7	U		<8.7	U		<7.1	U		<5.8	U		<5.8	U		<5.7	U		<5.7	U		<5.7	U	
		VMP-2-5-110711	11/7/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0031	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-2-5-012512	1/25/2012	<0.58	U		<0.58	U		<0.58	U		<0.48	U		<0.39	U		<0.39	U		<0.38	U		<0.38	U		<0.38	U	
		VMP-2-5-042512	4/25/2012	<0.023	U		<0.023	U		<0.023	U		0.003	J		<0.015	U		<0.015	U		<0.015	U		<0.015	U		<0.015	U	
		VMP-2-5-071612	7/16/2012	<0.0056	U		<0.0056	U		<0.0056	J	U	0.0023	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-2-5-102412	10/24/2012	<0.0086	U		<0.0086	U		<0.0086	U		0.0028	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-2-8.5-111610	11/16/2010	<7.6	U		<7.6	U		<7.6	U		<6.2	U		<5.1	U		<5.1	U		<5	U		<5	U		<5	U	
		VMP-2-8.5-020411	2/4/2011	<2.6	U		<2.6	U		<2.6	U		<2.1	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U	
		VMP-2-8.5-041311	4/13/2011	<0.79	U		<0.79	U		<0.79	U		<0.65	U		<0.53	U		0.1	J		0.076	J		<0.52	U		<0.52	U	
		VMP-2-8.5-080211	8/2/2011	<32	U		<32	U		<32	U		<26	U		<21	U		<21	U		<21	U		<21	U		<21	U	
		VMP-2-8.5-110711	11/7/2011	<0.068	U		<0.068	U		<0.068	U		<0.056	U		<0.046	U		<0.046	U		<0.045	U		<0.045	U		<0.045	U	
		VMP-2-8.5-012612	1/26/2012	<3	U		<3	U		<3	U		<2.5	U		<2	U		<2	U		<2	U		<2	U		<2	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<3	U		<3	U		<3	U		<2.5	U		<2	U		<2	U		<2	U		<2	U		<2	U	
		VMP-2-8.5-041612	4/16/2012	<0.0059	U		<0.0059	U		<0.0059	J	U	0.0029	J		<0.004	U		0.0013	J		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-2-8.5-041612-Dup	4/16/2012	<0.006	U		<0.006	U		<0.006	J	U	0.003	J		<0.0041	U		0.0011	J		<0.004	U		<0.004	U		<0.004	U	
		VMP-2-8.5-071612	7/16/2012	<0.0067	J	U	<0.0067	J	U	<0.0067	J	U	0.0029	J		<0.0045	U		0.0006	J		<0.0044	U		<0.0044	U		<0.0044	J	U
		VMP-2-8.5-071612-Dup	7/16/2012	<0.0055	U		<0.0055	U		<0.0055	J	U	0.0032	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-2-8.5-102312	10/23/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0025	J		<0.0059	U		<0.0059	U		<0.0058	U		<0.0058	U		<0.0058	U	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<4.2	U		<4.2	U		<4.2	U		<3.5	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-2-22-111610	11/16/2010	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-2-22-020411	2/4/2011	<3.6	U		<3.6	U		<3.6	U		<2.9	U		<2.4	U		<2.4	U		<2.4	U		<2.4	U		<2.4	U	
		VMP-2-22-041311	4/13/2011	<10	U		<10	U		<10	U		<8.6	U		<7.1	U		<7.1	U		<6.9	U		<6.9	U		<6.9	U	
		VMP-2-22-080211	8/2/2011	<42	U		<42	U		<42	U		<35	U		<28	U		<28	U		<28	U		<28	U		<28	U	
		VMP-2-22-110711	11/7/2011	<2.2	U		<2.2	U		<2.2	U		<1.8	U	UJ	<1.5	U		0.42	J		<1.5	U		<1.5	U		<1.5	U	
		VMP-2-22-012612	1/26/2012	<4.6	U		<4.6	U		<4.6	U		<3.8	U		<3.1	U		<3.1	U		<3.1	U		<3.1	U		<3.1	U	
		VMP-2-22-042712	4/27/2012	<0.0048	U		<0.0048	U		<0.0048	J	U	0.0026	J		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-2-22-071612	7/16/2012	<0.0057	J	U	<0.0057	J	U	<0.0057	J	U	0.0029	J		<0.0038	U		<0.0038	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-2-22-102312	10/23/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0028	J		<0.0059	U		<0.0059	U		<0.0058	U		<0.0058	U		<0.0058	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<8	U		<8	U		<8	U		<6.6	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U		<5.3	U	
		VMP-3-5-112210	11/22/2010	<8.1	U		<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U		<5.3	U	
		VMP-3-5-020911	2/9/2011	<3.6	U		<3.6	U		<3.6	U		<3	U		<2.4	U		<2.4	U		<2.4	U		<2.4	U		<2.4	U	
		VMP-3-5-041411	4/14/2011	<39	U		<39	U		<39	U		<32	U		<26	U		<26	U		<26	U		<26	U		<26	U	
		VMP-3-5-080211	8/2/2011	<0.0093	U		<0.0093	U		<0.0093	U		<0.0077	U		<0.0063	U		<0.0063	U		<0.0062	U		<0.0062	U		<0.0062	U	
		VMP-3-5-110811	11/8/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0019	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-3-5-110811-DUP	11/8/2011	<0.0053	U		<0.0053	U		<0.0053	U		0.002	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-3-5-012712	1/27/2012	<2.6	U		<2.6	U		<2.6	U		<2.2	U		<1.8	U		<1.8	U		<1.7	U		<1.7	U		<1.7	U	
		VMP-3-5-041912	4/19/2012	<0.0057	U		<0.0057	U		<0.0057	J	U	0.0031	J		<0.0039	U		<0.0039	J	U	<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-3-5-072712	7/27/2012	<0.006	J	U	<0.006	J	U	<0.006	J	U	0.0029	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
	10 ft	VMP-3-10	6/21/2010	<9.1	U		<9.1	U		<9.1	U		<7.5	U		<6.1	U		<6.1	U		<6	U		<6	U		<6	U	
		VMP 3-10-091010	9/10/2010	<26	U		<26	U		<26	U		<21	U		<17	U		<17	U		<17	U		<17	U		<17	U	
		VMP-3-10-092010	9/20/2010	<19	U		<19	U		<19	U		<15	U		<12	U		<12	U		<12	U		<12	U		<12	U	
		VMP-3-10-112210	11/22/2010	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-3-10-112210-Dup	11/22/2010	<11	U		<11	U		<11	U		<9.1	U		<7.4	U		<7.4	U		<7.3	U		<7.3	U		<7.3	U	
		VMP-3-10-020811	2/8/2011	<12	U		<12	U		<12	U		<9.6	U		<7.8	U		<7.8	U		<7.7	U		<7.7	U		<7.7	U	
		VMP-3-10-041311	4/13/2011	<68	U		<68	U		<68	U		<56	U		<46	U		<46	U		<45	U		<45	U		<45	U	
		VMP-3-10-080311	8/3/2011	<0.085	U		<0.085	U		<0.085	U		<0.07	U		<0.057	U		<0.057	U		<0.056	U		<0.056	U		<0.056	U	
		VMP-3-10-110811	11/8/2011	<0.007	U		<0.007	U		<0.007	U		0.0022	J	J	<0.0047	U		<0.0047	U		<0.0046	U		<0.0046	U		<0.0046	U	
		VMP-3-10-012712	1/27/2012	<0.05	U		<0.05	U		<0.05	U		<0.042	U		<0.034	U		<0.034	U		<0.033	U		<0.033	U		<0.033	U	
		VMP-3-10-042012	4/20/2012	<0.0051	J	U	<0.0051	J	U	<0.0051	J	U	0.003	J		<0.0035	U		<0.0035	J	U	<0.0034	U		<0.0034	J	U	0.0012	J	
		VMP-3-10-072312	7/23/2012	<0.006	U		<0.006	U		<0.006	U		0.0027	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-3-10-101812	10/18/2012	<0.0091	U		<0.0091	U		<0.0091	U		0.0025	J		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
	22 ft	VMP-3-22-092010	9/20/2010	<24	U		<24	U		<24	U		<20	U		<16	U		<16	U		<16	U		<16	U		<16	U	
		VMP-3-22-112210	11/22/2010	<28	U		<28	U		<28	U		<23	U		<19	U		<19	U		<18	U		<18	U		<18	U	
		VMP-3-22-020811	2/8/2011	<14	U		<14	U		<14	U		<11	U		<9.3	U		<9.3	U		<9.1	U		<9.1	U		<9.1	U	
		VMP-3-22-041511	4/15/2011	<74	U		<74	U		<74	U		<61	U		<50	U		<50	U		<49	U		<49	U		<49	U	
		VMP-3-22-080611	8/6/2011	<0.12	U		<0.12	U		<0.12	U		<0.098	U		<0.08	U		<0.08	U		<0.078	U		<0.078	U		<0.078	U	
		VMP-3-22-110811	11/8/2011	<0.0053	U		<0.0053	U		<0.0053	U		0.0019	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-3-22-013012	1/30/2012	<0.021	U		<0.021	U		<0.021	U		<0.017	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U	
		VMP-3-22-042012	4/20/2012	<0.0053	J	U	<0.0053	J	U	<0.0053	J	U	0.0027	J		<0.0035	U		0.00068	J		<0.0035	U		<0.0035	J	U	<0.0035	U	
		VMP-3-22-072312	7/23/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0026	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-3-22-101812	10/18/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0024	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<46	U		<46	U		<46	U		<38	U		<31	U		<31	U		<30	U		<30	U		<30	U	
		VMP-3-31.5-112210	11/22/2010	<32	U		<32	U		<32	U		<26	U		<21	U		<21	U		<21	U		<21	U		<21	U	
		VMP-3-31.5-020911	2/9/2011	<30	U		<30	U		<30	U		<25	U		<20	U		<20	U		<20	U		<20	U		<20	U	
		VMP-3-31.5-041411	4/14/2011	<250	U		<250	U		<250	U		<200	U		<170	U		<170	U		<160	U		<160	U		<160	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<250	U		<250	U		<250	U		<200	U		<170	U		<170	U		<160	U		<160	U		<160	U	
		VMP-3-31.5-080211	8/2/2011	<560	U		<560	U		<560	U		<460	U		<380	U		<380	U		<370	U		<370	U		<370	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<330	U		<330	U		<330	U		<270	U		<220	U		<220	U		<220	U		<220	U		<220	U	
		VMP-3-31.5-110811	11/8/2011	<13	U		<13	U		<13	U		<11	U		<8.9	U		6.9	J		<8.7	U		<8.7	U		<8.7	U	
		VMP-3-31.5-012712	1/27/2012	<83	U		<83	U		<83	U		<68	U		<56	U		<56	U		<55	U		<55	U		<55	U	
		VMP-3-31.5-041912	4/19/2012	<140	U		<140	U		<140	U		<120	U		<97	U		<97	U		<95	U		<95	U		<95	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<140	U		<140	U		<140	U		<110	U		<93	U		<93	U		<91	U		<91	U		<91	U	
		VMP-3-31.5-072312	7/23/2012	<34	U		<34	U		<34	U		<28	U		<23	U		<23	U		<23	U		<23	U		<23	U	
		VMP-3-31.5-101912	10/19/2012	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
	39 ft	VMP-3-39-101912	10/19/2012	<280	U		<280	U		<280	U		<230	U		<190	U		<190	U		<180	U		<180	U		<180	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.43	U		<0.43	U		<0.43	U		<0.36	U		<0.29	U		<0.29	U		<0.28	U		<0.28	U		<0.28	U	
		VMP-4-5-112210	11/22/2010	<16	U		<16	U		<16	U		<13	U		<11	U		<11	U		<11	U		<11	U		<11	U	
		VMP-4-5-021411	2/14/2011	<0.95	U		<0.95	U		<0.95	U		<0.78	U		<0.64	U		<0.64	U		<0.62	U		<0.62	U		<0.62	U	
		VMP-4-5-041911	4/19/2011	<44	U		<44	U		<44	U		<36	U		<29	U		<29	U		<29	U		<29	U		<29	U	
		VMP-4-5-080311	8/3/2011	<0.093	U		<0.093	U		<0.093	U		<0.077	U		<0.063	U		<0.063	U		<0.062	U		<0.062	U		<0.062	U	
		VMP-4-5-110911	11/9/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0019	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-4-5-013012	1/30/2012	<0.26	U		<0.26	U		<0.26	U		<0.22	U		<0.18	U		<0.18	U		<0.17	U		<0.17	U		<0.17	U	
		VMP-4-5-042512	4/25/2012	<0.0065	J	U	<0.0065	J	U	<0.0065	J	U	0.0026	J		<0.0044	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.0043	U	
		VMP-4-5-072512	7/25/2012	<0.0064	U		<0.0064	J	U	<0.0064	J	U	0.0028	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-4-5-101812	10/18/2012	<0.0093	U		<0.0093	U		<0.0093	U		0.0032	J		<0.0063	U		<0.0063	U		<0.0062	U		<0.0062	U		<0.0062	U	
	12 ft	VMP-4-12-082510	8/25/2010	<7.6	U		<7.6	U		<7.6	U		<6.2	U		<5.1	U		<5.1	U		<5	U		<5	U		<5	U	
		VMP-4-12-112310	11/23/2010	<7.8	U		<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.2	U		<5.1	U		<5.1	U		<5.1	U	
		VMP-4-12-021411	2/14/2011	<1.9	U		<1.9	U		<1.9	U		<1.6	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U	
		VMP-4-12-041911	4/19/2011	<38	U		<38	U		<38	U		<31	U		<25	U		<25	U		<25	U		<25	U		<25	U	
		VMP-4-12-080311	8/3/2011	<4.3	U		<4.3	U		<4.3	U		<3.6	U		<2.9	U		<2.9	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-4-12-080311-Dup	8/3/2011	<8.7	U		<8.7	U		<8.7	U		<7.1	U		<5.8	U		<5.8	U		<5.7	U		<5.7	U		<5.7	U	
		VMP-4-12-110911	11/9/2011	<1.3	U		<1.3	U		<1.3	U		<1.1	U	UJ	<0.89	U		<0.89	U		<0.87	U		<0.87	U		<0.87	U	
		VMP-4-12-013012	1/30/2012	<2.7	U		<2.7	U		<2.7	U		<2.2	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-4-12-041812	4/18/2012	<0.006	U		<0.006	U		<0.006	J	U	0.003	J		<0.0041	U		<0.0041	J	U	<0.004	U		<0.004	U		<0.004	U	
		VMP-4-12-072312	7/23/2012	<0.029	U		<0.029	U		<0.029	U		<0.024	U		<0.02	U		<0.02	U		<0.019	U		<0.019	U		<0.019	U	
		VMP-4-12-101812	10/18/2012	<0.0091	U		<0.0091	U		<0.0091	U		<0.0075	U		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
		VMP-4-12-101812-Dup	10/18/2012	<0.0093	U		<0.0093	U		<0.0093	U		0.0023	J		<0.0063	U		<0.0063	U		<0.0062	U		<0.0062	U		<0.0062	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<8.7	U		<8.7	U		<8.7	U		<7.1	U		<5.8	U		<5.8	U		<5.7	U		<5.7	U		<5.7	U	
		VMP-4-23.5-112310	11/23/2010	<87	U		<87	U		<87	U		<72	U		<59	U		<59	U		<58	U		<58	U		<58	U	
		VMP-4-23.5-021411	2/14/2011	<3.2	U		<3.2	U		<3.2	U		<2.6	U		<2.1	U		<2.1	U		<2.1	U		<2.1	U		<2.1	U	
		VMP-4-23.5-042011	4/20/2011	<200	U		<200	U		<200	U		<170	U		<140	U		<140	U		<130	U		<130	U		<130	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<200	U		<200	U		<200	U		<170	U		<140	U		<140	U		<130	U		<130	U		<130	U	
		VMP-4-23.5-080611	8/6/2011	<8.4	U		<8.4	U		<8.4	U		<6.9	U		<5.7	U		<5.7	U		<5.6	U		<5.6	U		<5.6	U	
		VMP-4-23.5-110911	11/9/2011	<25	U		<25	U		<25	U		<21	U		<17	U		13	J		<17	U		<17	U		<17	U	
		VMP-4-23.5-013012	1/30/2012	<54	U		<54	U		<54	U		<44	U		<36	U		<36	U		<35	U		<35	U		<35	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<38	U		<38	U		<38	U		<31	U		<25	U		<25	U		<25	U		<25	U		<25	U	
		VMP-4-23.5-041912	4/19/2012	<12	U		<12	U		<12	U		<9.7	U		<7.9	U		<7.9	U		<7.8	U		<7.8	U		<7.8	U	
		VMP-4-23.5-072312	7/23/2012	<5.6	U		<5.6	U		<5.6	U		<4.6	U		<3.8	U		<3.8	U		<3.7	U		<3.7	U		<3.7	U	
		VMP-4-23.5-101812	10/18/2012	<6.2	U		<6.2	U		<6.2	U		<5.1	U		<4.2	U		<4.2	U		<4.1	U		<4.1	U		<4.1	U	
	39 ft	VMP-4-39-042111	4/21/2011	<250	U		<250	U		<250	U		<210	U		<170	U		<170	U		<170	U		<170	U		<170	U	
		VMP-4-39-041912	4/19/2012	<6	U		<6	U		<6	U		<5	U		<4.1	U		<4.1	U		<4	U		<4	U		<4	U	
		VMP-4-39-072312	7/23/2012	<9.1	U		<9.1	U		<9.1	U		<7.5	U		<6.1	U		<6.1	U		<6	U		<6	U		<6	U	
		VMP-4-39-101812	10/18/2012	<110	U		<110	U		<110	U		<94	U		<77	U		<77	U		<75	U		<75	U		<75	U	
		VMP-4-39-101812-Dup	10/18/2012	<100	U		<100	U		<100	U		<85	U		<70	U		<70	U		<68	U		<68	U		<68	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<16	U		<16	U		<16	U		<13	U		<11	U		<11	U		<10	U		<10	U		<10	U	
		VMP-5-5-112210	11/22/2010	<3.9	U		<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-5-5-021611	2/16/2011	<0.025	U		<0.025	U		<0.025	U		<0.02	U		<0.017	U		<0.017	U		<0.016	U		<0.016	U		<0.016	U	
		VMP-5-5-042111	4/21/2011	<0.079	U		<0.079	U		<0.079	U		<0.065	U		<0.053	U		<0.053	U		<0.052	U		<0.052	U		<0.052	U	
		VMP-5-5-080511	8/5/2011	<0.0076	U		<0.0076	U		<0.0076	U		0.0024	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-5-5-111111	11/11/2011	<0.0056	U		<0.0056	U		<0.0056	U		0.0015	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-5-5-013012	1/30/2012	<0.056	U		<0.056	U		<0.056	U		<0.046	U		<0.038	U		<0.038	U		<0.037	U		<0.037	U		<0.037	U	
		VMP-5-5-041112	4/11/2012	<0.0055	U		0.00098	J		0.0021	J		0.0024	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-5-5-071312	7/13/2012	<0.0061	U		<0.0061	J	U	<0.0061	J	U	0.0024	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-5-5-101212	10/12/2012	<0.0076	U		<0.0076	U		<0.0076	J	U	0.0025	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-5-12.5-112310	11/23/2010	<0.4	U		<0.4	U		<0.4	U		<0.33	U		<0.27	U		<0.27	U		<0.26	U		<0.26	U		<0.26	U	
		VMP-5-12.5-021611	2/16/2011	<1.2	U		<1.2	U		<1.2	U		<0.98	U		<0.8	U		<0.8	U		<0.79	U		<0.79	U		<0.79	U	
		VMP-5-12.5-042111	4/21/2011	<0.085	U		<0.085	U		<0.085	U		<0.07	U		<0.057	U		<0.057	U		<0.056	U		<0.056	U		<0.056	U	
		VMP-5-12.5-080611	8/6/2011	<7.4	U		<7.4	U		<7.4	U		<6.1	U		<5	U		<5	U		<4.9	U		<4.9	U		<4.9	U	
		VMP-5-12.5-111111	11/11/2011	<0.0053	U		<0.0053	U		<0.0053	U		0.0017	J		<0.0036	U		<0.0036	U		<0.0035	U		0.0012	J		<0.0035	U	
		VMP-5-12.5-013012	1/30/2012	<0.017	U		<0.017	U		<0.017	U		<0.014	U		<0.012	U		<0.012	U		<0.011	U		<0.011	U		<0.011	U	
		VMP-5-12.5-041112	4/11/2012	<0.0053	U		0.0011	J		0.0016	J		0.0027	J		<0.0035	U		0.00075	J		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-5-12.5-071212	7/12/2012	<0.0062	U		<0.0062	U		<0.0062	U		0.0022	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-5-12.5-101112	10/11/2012	<0.015	U		<0.015	U		<0.015	U		0.0022	J		<0.0099	U		<0.0099	U		<0.0097	U		<0.0097	U		<0.0097	U	
	31 ft	VMP-5-31-090910	9/9/2010	<33	U		<33	U		<33	U		<27	U		<22	U		<22	U		<22	U		<22	U		<22	U	
		VMP-5-31-112310	11/23/2010	<21	U		<21	U		<21	U		<17	U		<14	U		<14	U		<14	U		<14	U		<14	U	
		VMP-5-31-021611	2/16/2011	<8.3	U		<8.3	U		<8.3	U		<6.8	U		<5.6	U		<5.6	U		<5.5	U		<5.5	U		<5.5	U	
		VMP-5-31-042111	4/21/2011	<120	U		<120	U		<120	U		<100	U		<83	U		<83	U		<82	U		<82	U		<82	U	
		VMP-5-31-080611	8/6/2011	<70	U		<70	U		<70	U		<57	U		<47	U		<47	U		<46	U		<46	U		<46	U	
		VMP-5-31-111111	11/11/2011	<35	U		<35	U		<35	U		<29	U		<24	U		12	J		<23	U		<23	U		<23	U	
		VMP-5-31-013012	1/30/2012	<18	U		<18	U		<18	U		<15	U		<12	U		<12	U		<12	U		<12	U		<12	U	
		VMP-5-31-041112	4/11/2012	<0.057	U		<0.057	U		<0.057	U		<0.047	U		<0.039	U		<0.039	U		<0.038	U		<0.038	U		<0.038	U	
		VMP-5-31-071212	7/12/2012	<0.006	U		<0.006	U		<0.006	U		0.0017	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-5-31-101112	10/11/2012	<0.0085	U		<0.0085	U		<0.0085	U		0.0023	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
	40 ft	VMP-5-40-042111	4/21/2011	<130	U		<130	U		<130	U		<110	U		<87	U		<87	U		<85	U		<85	U		<85	U	
		VMP-5-40-013012	1/30/2012	<38	U		<38	U		<38	U		<31	U		<25	U		<25	U		<25	U		<25	U		<25	U	
		VMP-5-40-041212	4/12/2012	<0.056	U		<0.056	U		<0.056	U		<0.046	U		<0.038	U		<0.038	U		<0.037	U		<0.037	U		<0.037	U	
		VMP-5-40-071212	7/12/2012	<0.06	U		<0.06	U		<0.06	U		<0.05	U		<0.041	U		<0.041	U		<0.04	U		<0.04	U		<0.04	U	
		VMP-5-40-101112	10/11/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0021	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<1.3	U		<1.3	U		<1.3	U		<1.1	U		<0.89	U		<0.89	U		<0.87	U		<0.87	U		<0.87	U	
		VMP-6-5-111610	11/16/2010	<8.3	U		<8.3	U		<8.3	U		<6.8	U		<5.6	U		<5.6	U		<5.5	U		<5.5	U		<5.5	U	
		VMP-6-5-020711	2/7/2011	<0.0072	J	U	<0.0072	J	U	<0.0072	J	U	0.0025	J		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-6-5-040811	4/8/2011	<0.016	U		<0.016	J	U	<0.016	J	U	0.0029	J		<0.01	U		<0.01	U		<0.01	U		<0.01	U		<0.01	U	
		VMP-6-5-080411	8/4/2011	<0.4	U		<0.4	U		<0.4	U		<0.33	U		<0.27	U		<0.27	U		<0.26	U		<0.26	U		<0.26	U	
		VMP-6-5-110911	11/9/2011	<0.0048	U		<0.0048	U		<0.0048	U		0.0019	J	J	<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-6-5-013112	1/31/2012	<0.057	U		0.0069	J		<0.057	U		<0.047	U		<0.038	U		<0.038	U		<0.038	U		<0.038	U		<0.038	U	
		VMP-6-5-041212	4/12/2012	<0.006	U		<0.006	J	U	<0.006	J	U	0.0024	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-6-5-071612	7/16/2012	<0.006	U		<0.006	J	U	<0.006	J	U	0.0029	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-6-5-101012	10/10/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0022	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	10 ft	VMP-6-10-090810	9/8/2010	<1.4	U		<1.4	U		<1.4	U		<1.2	U		<0.96	U		<0.96	U		<0.94	U		<0.94	U		<0.94	U	
		VMP-6-10-111710	11/17/2010	<0.0078	U		<0.0078	U		<0.0078	U		0.002	J		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-6-10-020711	2/7/2011	<0.0076	J	U	<0.0076	J	U	<0.0076	J	U	0.0021	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-6-10-040811	4/8/2011	<0.18	U		<0.18	U		<0.18	U		<0.15	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U	
		VMP-6-10-080411	8/4/2011	<1.3	U		<1.3	U		<1.3	U		<1	U		<0.87	U		<0.87	U		<0.85	U		<0.85	U		<0.85	U	
		VMP-6-10-111011	11/10/2011	<0.005	U		<0.005	U		<0.005	U		0.0014	J	J	<0.0034	U		<0.0034	U		<0.0033	U		<0.0033	U		<0.0033	U	
		VMP-6-10-013112	1/31/2012	<0.9	U		<0.9	U		<0.9	U		<0.74	U		<0.6	U		<0.6	U		<0.59	U		<0.59	U		<0.59	U	
		VMP-6-10-041212	4/12/2012	<0.0059	U		<0.0059	J	U	<0.0059	J	U	0.0024	J		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-6-10-071612	7/16/2012	<0.0079	J	U	<0.0079	J	U	<0.0079	J	U	0.0025	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-6-10-101112	10/11/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0025	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<9.7	U		<9.7	U		<9.7	U		<8	U		<6.5	U		<6.5	U		<6.4	U		<6.4	U		<6.4	U	
		VMP-6-31.5-111710	11/17/2010	<15	U		<15	U		<15	U		<12	U		<10	U		<10	U		<10	U		<10	U		<10	U	
		VMP-6-31.5-020711	2/7/2011	<14	U		<14	U		<14	U		<12	U		<9.8	U		<9.8	U		<9.6	U		<9.6	U		<9.6	U	
		VMP-6-31.5-041111	4/11/2011	<11	U		<11	U		1.1	J		<9.3	U		<7.6	U		<7.6	U		<7.4	U		<7.4	U		<7.4	U	
		VMP-6-31.5-080411	8/4/2011	<8.4	U		<8.4	U		<8.4	U		<6.9	U		<5.6	U		<5.6	U		<5.5	U		<5.5	U		<5.5	U	
		VMP-6-31.5-111011	11/10/2011	<13	U		<13	U		<13	U		<10	U		<8.7	U		10			<8.5	U		<8.5	U		<8.5	U	
		VMP-6-31.5-013112	1/31/2012	<5.1	U		<5.1	U		<5.1	U		<4.2	U		<3.5	U		<3.5	U		<3.4	U		<3.4	U		<3.4	U	
		VMP-6-31.5-041212	4/12/2012	<0.69	U		<0.69	U		<0.69	U		<0.57	U		<0.46	U		<0.46	U		<0.45	U		<0.45	U		<0.45	U	
		VMP-6-31.5-071612	7/16/2012	<0.011	U		<0.011	J	U	<0.011	J	U	0.0022	J		<0.0073	U		<0.0073	U		<0.0072	U		<0.0072	U		<0.0072	U	
		VMP-6-31.5-101112	10/11/2012	<0.0085	U		<0.0085	U		<0.0085	U		0.0025	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
	39 ft	VMP-6-39-041111	4/11/2011	<13	U		<13	U		<13	U		<11	U		<9	U		<9	U		<8.9	U		<8.9	U		<8.9	U	
		VMP-6-39-013112	1/31/2012	<5.1	U		<5.1	U		<5.1	U		<4.2	U		<3.5	U		<3.5	U		<3.4	U		<3.4	U		<3.4	U	
		VMP-6-39-041212	4/12/2012	<0.5	U		<0.5	U		<0.5	U		<0.42	U		<0.34	U		<0.34	U		<0.33	U		<0.33	U		<0.33	U	
		VMP-6-39-071612	7/16/2012	<0.024	U		0.0079	J		<0.024	U		0.0025	J		<0.016	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U	
		VMP-6-39-071612-Dup	7/16/2012	<0.024	U		<0.024	U		<0.024	U		0.003	J		<0.016	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U	
		VMP-6-39-101112	10/11/2012	<0.016	U		<0.016	U		<0.016	U		0.0028	J		<0.011	U		<0.011	U		<0.011	U		<0.011	U		<0.011	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	<0.0079	U		<0.0079	U		<0.0079	U		0.003	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-7-5-111910	11/19/2010	<0.0072	U		<0.0072	U		<0.0072	U		<0.0059	U		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-7-5-020711	2/7/2011	<0.0078	J	U	<0.0078	U		<0.0078	J	U	0.0025	J		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-7-5-040711	4/7/2011	<0.011	U		<0.011	U		<0.011	U		0.0014	J		<0.0074	U		<0.0074	U		<0.0072	U		<0.0072	U		<0.0072	U	
		VMP-7-5-080211	8/2/2011	<1.1	U		<1.1	U		<1.1	U		<0.89	U		<0.73	U		<0.73	U		<0.72	U		<0.72	U		<0.72	U	
		VMP-7-5-111011	11/10/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0011	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-7-5-111011-DUP	11/10/2011	<0.0048	U		<0.0048	U		<0.0048	U		0.0014	J	J	<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-7-5-013112	1/31/2012	<0.0053	U		<0.0053	J	U	<0.0053	U		0.0022	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-7-5-041212	4/12/2012	<0.0057	U		<0.0057	U		<0.0057	J	U	0.0022	J		<0.0038	U		<0.0038	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-7-5-073112	7/31/2012	<0.015	U		<0.015	U		<0.015	U		<0.012	U		<0.0099	U		<0.0099	U		<0.0097	U		<0.0097	U		<0.0097	U	
		VMP-7-5-101012	10/10/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0026	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.17	U		<0.17	U		<0.17	U		<0.14	U		<0.12	U		<0.12	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-7-13.5-111910	11/19/2010	<1.2	U		<1.2	U		<1.2	U		<1	U		<0.82	U		<0.82	U		<0.8	U		<0.8	U		<0.8	U	
		VMP-7-13.5-020711	2/7/2011	<0.0074	J	U	<0.0074	U		<0.0074	J	U	0.0019	J		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-7-13.5-040711	4/7/2011	<0.013	U		<0.013	U		<0.013	U		<0.011	U		<0.0087	U		<0.0087	U		<0.0086	U		<0.0086	U		<0.0086	U	
		VMP-7-13.5-080311	8/3/2011	<1.4	U		<1.4	U		<1.4	U		<1.2	U		<0.98	U		<0.98	U		<0.96	U		<0.96	U		<0.96	U	
		VMP-7-13.5-111011	11/10/2011	<0.0047	U		<0.0048	U		<0.0048	U		0.0013	J	J	<0.0032	U		<0.0032	U		<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-7-13.5-013112	1/31/2012	<0.067	U		<0.067	U		<0.067	U		<0.055	U		<0.045	U		<0.045	U		<0.044	U		<0.044	U		<0.044	U	
		VMP-7-13.5-013112-DUP	1/31/2012	<0.069	U		<0.069	U		<0.069	U		<0.057	U		<0.046	U		<0.046	U		<0.045	U		<0.045	U		<0.045	U	
		VMP-7-13.5-041212	4/12/2012	<0.0055	U		<0.0055	U		<0.0055	J	U	0.0024	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-7-13.5-041212-DUP	4/12/2012	<0.0058	U		<0.0058	U		<0.0058	J	U	0.0023	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-7-13.5-072012	7/20/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0026	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-7-13.5-101012	10/10/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0026	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<2.5	U		<2.5	U		<2.5	U		<2	U		<1.7	U		<1.7	U		<1.6	U		<1.6	U		<1.6	U	
		VMP-7-29.5-111910	11/19/2010	<3.7	U		<3.7	U		<3.7	U		<3.1	U		<2.5	U		<2.5	U		<2.4	U		<2.4	U		<2.4	U	
		VMP-7-29.5-020711	2/7/2011	<3.9	U		<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-7-29.5-040711	4/7/2011	<0.94	U		<0.94	U		<0.94	U		<0.77	U		<0.63	U		<0.63	U		<0.62	U		<0.62	U		<0.62	U	
		VMP-7-29.5-080311	8/3/2011	<2.2	U		<2.2	U		<2.2	U		<1.8	U		<1.5	U		<1.5	U		<1.5	U		<1.5	U		<1.5	U	
		VMP-7-29.5-111111	11/11/2011	<4.4	U		<4.4	U		<4.4	U		<3.6	U		0.71	J		5.3			<2.9	U		<2.9	U		<2.9	U	
		VMP-7-29.5-020112	2/1/2012	<0.88	U		<0.88	U		<0.88	U		<0.72	U		<0.59	U		<0.59	U		<0.58	U		<0.58	U		<0.58	U	
		VMP-7-29.5-041312	4/13/2012	<0.0055	U		<0.0055	U		<0.0055	J	U	0.0025	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-7-29.5-072012	7/20/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0024	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-7-29.5-072012-Dup	7/20/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0027	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-7-29.5-101012	10/10/2012	<0.0087	U		<0.0087	U		<0.0087	J	U	0.0023	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	38 ft	VMP-7-38-020711	2/7/2011	<5.2	U		<5.2	U		<5.2	U		<4.3	U		<3.5	U		<3.5	U		<3.4	U		<3.4	U		<3.4	U	
		VMP-7-38-040711	4/7/2011	<1.3	U		<1.3	U		<1.3	U		<1.1	U		<0.89	U		<0.89	U		<0.87	U		<0.87	U		<0.87	U	
		VMP-7-38-020112	2/1/2012	<1.3	U		<1.3	U		<1.3	U		<1	U		<0.85	U		<0.85	U		<0.83	U		<0.83	U		<0.83	U	
		VMP-7-38-042512	4/25/2012	<0.0055	U		<0.0055	J	U	<0.0055	J	U	0.0025	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-7-38-042512-Dup	4/25/2012	<0.0055	U		<0.0055	J	U	<0.0055	J	U	0.0026	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-7-38-101112	10/11/2012	<0.0081	U		<0.0081	U		<0.0081	U		0.0027	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.0034	J		0.0038	J		0.0046	J		0.0026	J		0.00069	J		0.00092	J		<0.0053	U		0.0012	J		<0.0053	U	
		VMP-8-5-111810	11/17/2010	<0.007	U		<0.007	U		<0.007	U		0.0027	J		<0.0047	U		<0.0047	U		<0.0046	U		<0.0046	U		<0.0046	U	
		VMP-8-5-021011	2/10/2011	<0.0074	U		<0.0074	U		<0.0074	U		<0.0061	U		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-8-5-040711	4/7/2011	<0.0083	J	U	<0.0083	U		<0.0083	J	U	0.0026	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-8-5-072711	7/27/2011	<0.0089	U		<0.0089	U		0.0013	J		0.0023	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
		VMP-8-5-110311	11/3/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0024	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-8-5-012312	1/23/2012	<0.0064	U		<0.0064	J	U	<0.0064	U		0.0039	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-8-5-041012	4/10/2012	<0.0057	U		<0.0057	U		0.0012	J		0.0021	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-8-5-071312	7/13/2012	<0.0048	U		<0.0048	U		<0.0048	U		0.0017	J		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-8-5-073112	7/31/2012	<0.0062	U		<0.0062	U		<0.0062	U		0.0026	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-8-5-100412	10/4/2012	<0.0083	U		<0.0083	J	U	<0.0083	J	U	0.002	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.0079	U		<0.0079	U		<0.0079	J	U	0.002	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	<0.0073	U		0.0025	J		0.0029	J		0.0024	J		0.00048	J		<0.0049	U		<0.0048	U		0.00059	J		<0.0048	U	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	<0.0074	U		0.0021	J		0.0026	J		0.0024	J		0.00041	J		0.0007	J		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-8-9.5-111810	11/17/2010	<0.0073	U		<0.0073	U		<0.0073	U		0.0024	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-8-9.5-021011	2/10/2011	<0.0076	U		<0.0076	U		<0.0076	U		0.0019	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-8-9.5-040711	4/7/2011	<0.0083	U		<0.0083	U		0.00092	J		0.0016	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-8-9.5-072711	7/27/2011	<0.0064	U		<0.0064	U		0.0011	J		0.0019	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-8-9.5-110311	11/3/2011	<0.005	U		<0.005	U		<0.005	U		0.0019	J		<0.0034	U		<0.0034	U		<0.0033	U		<0.0033	U		<0.0033	U	
		VMP-8-9.5-012312	1/23/2012	<0.0061	U		<0.0061	U		<0.0061	U		0.004	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-8-9.5-041012	4/10/2012	<0.0057	U		0.002	J		0.0012	J		0.0024	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-8-9.5-071312	7/13/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0024	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-8-9.5-071312-Dup	7/13/2012	<0.0054	U		<0.0054	U		<0.0054	U		0.0021	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-8-9.5-100412	10/4/2012	<0.0091	U		<0.0091	U		<0.0091	J	U	0.0022	J		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	<0.0079	U		0.0021	J		0.0026	J		0.0028	J		<0.0053	U		0.00085	J		<0.0052	U		0.00085	J		<0.0052	U	
		VMP-8-23.5-111910	11/19/2010	<0.0076	U		<0.0076	U		<0.0076	U		<0.0062	U		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-8-23.5-021011	2/10/2011	<0.0081	U		<0.0081	U		<0.0081	U		0.0022	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-8-23.5-040711	4/7/2011	<0.0076	U		<0.0076	U		<0.0076	U		0.0023	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.012	U		0.0016	J		0.0017	J		0.0017	J		<0.0081	U		0.0014	J		<0.0079	U		<0.0079	U		<0.0079	U	
		VMP-8-23.5-081011	8/10/2011	<0.0079	J	U	<0.0079	J	U	<0.0079	J	U	0.0027	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-8-23.5-110611	11/6/2011	<0.0057	U		<0.0057	U		<0.0057	U		0.003	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-8-23.5-012312	1/23/2012	<0.0064	U		<0.0064	J	U	<0.0064	U		0.0033	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-8-23.5-041012	4/10/2012	<0.0056	U		0.0012	J		0.001	J		0.0019	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-8-23.5-071312	7/13/2012	<0.0062	U		<0.0062	U		<0.0062	U		0.0026	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-8-23.5-100412	10/4/2012	<0.0087	U		0.0017	J		0.00075	J		0.0026	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	<0.0068	U		<0.0068	U		<0.0068	U		0.003	J		<0.0046	U		<0.0046	U		<0.0045	U		<0.0045	U		<0.0045	U	
		VMP-9-5-111910	11/19/2010	<0.0072	U		<0.0072	U		<0.0072	U		<0.0059	U		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-9-5-020811	2/8/2011	<0.0066	J	U	<0.0066	U		<0.0066	J	U	0.0028	J		<0.0044	U		<0.0044	U		<0.0044	U		<0.0044	U		<0.0044	U	
		VMP-9-5-040611	4/6/2011	<0.018	J	U	<0.018	J	U	<0.018	J	U	0.0025	J		<0.012	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-9-5-080211	8/2/2011	<0.35	U		<0.35	U		<0.35	U		<0.29	U		<0.24	U		<0.24	U		<0.23	U		<0.23	U		<0.23	U	
		VMP-9-5-110411	11/4/2011	<0.0053	J	U	<0.0053	J	U	<0.0053	J	U	0.0021	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-9-5-012612	1/26/2012	<0.0045	U		<0.0045	J	U	<0.0045	J	U	0.0038			<0.003	U		<0.003	J	U	<0.003	U		<0.003	U		<0.003	U	
		VMP-9-5-041112	4/11/2012	<0.0054	U		<0.0054	U		<0.0054	U		0.002	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-9-5-071312	7/13/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0021	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-9-5-101012	10/10/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0025	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.15	U		<0.15	U		<0.15	U		<0.13	U		<0.1	U		<0.1	U		<0.1	U		<0.1	U		<0.1	U	
		VMP-9-11.5-111910	11/19/2010	<0.45	U		<0.45	U		<0.45	U		<0.37	U		<0.3	U		<0.3	U		<0.3	U		<0.3	U		<0.3	U	
		VMP-9-11.5-020911	2/9/2011	<0.0081	U		<0.0081	U		<0.0081	U		<0.0066	U		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0063	U		<0.0063	U		<0.0063	U		0.0013	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-9-11.5-040611	4/6/2011	<0.024	J	U	<0.024	U		<0.024	J	U	<0.02	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U	
		VMP-9-11.5-080211	8/2/2011	<0.53	U		<0.53	U		<0.53	U		<0.44	U		<0.36	U		<0.36	U		<0.35	U		<0.35	U		<0.35	U	
		VMP-9-11.5-110411	11/4/2011	<0.0053	U		<0.0053	U		<0.0053	J	U	0.0025	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-9-11.5-012612	1/26/2012	<0.0046	J	U	<0.0046	J	U	<0.0046	J	U	0.0033	J		<0.0031	U		<0.0031	J	U	<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-9-11.5-041112	4/11/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0021	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-9-11.5-071312	7/13/2012	<0.0062	U		<0.0062	U		<0.0062	U		0.0021	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-9-11.5-101012	10/10/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0028	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<1.2	U		<1.2	U		<1.2	U		<1	U		<0.82	U		<0.82	U		<0.8	U		<0.8	U		<0.8	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<1.3	U		<1.3	U		<1.3	U		<1.1	U		<0.87	U		<0.87	U		<0.86	U		<0.86	U		<0.86	U	
		VMP-9-25.5-111910	11/19/2010	<1.4	U		<1.4	U		<1.4	U		<1.1	U		<0.93	U		<0.93	U		<0.91	U		<0.91	U		<0.91	U	
		VMP-9-25.5-020911	2/9/2011	<0.76	U		<0.76	U		<0.76	U		<0.62	U		<0.51	U		<0.51	U		<0.5	U		<0.5	U		<0.5	U	
		VMP-9-25.5-040811	4/8/2011	<0.38	U		<0.38	U		<0.38	U		<0.32	U		<0.26	U		<0.26	U		<0.25	U		<0.25	U		<0.25	U	
		VMP-9-25.5-080211	8/2/2011	<0.85	U		<0.85	U		<0.85	U		<0.7	U		<0.57	U		<0.57	U		<0.56	U		<0.56	U		<0.56	U	
		VMP-9-25.5-110711	11/7/2011	<0.75	U		0.079	J		<0.75	U		<0.62	U		<0.5	U		<0.5	U		<0.49	U		<0.49	U		<0.49	U	
		VMP-9-25.5-110711-DUP	11/7/2011	<0.65	U		0.069	J		<0.65	U		<0.53	U		<0.44	U		<0.44	U		<0.43	U		<0.43	U		<0.43	U	
		VMP-9-25.5-012612	1/26/2012	<0.19	U		<0.19	U		<0.19	U		<0.16	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U	
		VMP-9-25.5-041112	4/11/2012	<0.0055	U		0.00089	J		<0.0055	U		0.002	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-9-25.5-071312	7/13/2012	<0.0059	J	U	<0.0059	J	U	<0.0059	J	U	0.0029	J		<0.004	U		<0.004	J	U	<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-9-25.5-071312-Dup	7/13/2012	<0.0057	J	U	<0.0057	J	U	<0.0057	J	U	0.0027	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-9-25.5-101012	10/10/2012	<0.0079	U		<0.0079	U		<0.0079	U		0.0027	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<1.2	U		<1.2	U		<1.2	U		<1	U		<0.85	U		<0.84	U		<0.83	U		<0.83	U		<0.83	U	
		VMP-9-38.5-040811	4/8/2011	<1.7	U		<1.7	U		<1.7	U		<1.4	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U	
		VMP-9-38.5-012612	1/26/2012	<0.25	U		<0.25	U		<0.25	U		<0.21	U		<0.17	U		<0.17	U		<0.17	U		<0.17	U		<0.17	U	
		VMP-9-38.5-041112	4/11/2012	<0.0048	U		<0.0048	U		<0.0048	U		0.002	J		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-9-38.5-071312	7/13/2012	<0.0064	U		<0.0064	J	U	<0.0064	J	U	0.0025	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-9-38.5-101012	10/10/2012	<0.024	U		<0.024	U		<0.024	U		<0.019	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U		<0.016	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.008	U		<0.008	U		<0.008	U		0.0025	J		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-18-8.5-090710	9/7/2010	<0.0078	J	U	<0.0078	J	U	<0.0078	J	U	0.0028	J		<0.0052	U		0.0011	J		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-18-8.5-111910	11/19/2010	<0.0065	U		<0.0065	U		<0.0065	U		<0.0053	U		<0.0044	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.0043	U	
		VMP-18-8.5-020711	2/7/2011	<0.0072	J	U	<0.0072	J	U	<0.0072	J	U	0.0022	J		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0069	J	U	<0.0069	J	U	<0.0069	J	U	0.0022	J		<0.0046	U		<0.0046	U		<0.0045	U		<0.0045	U		<0.0045	U	
		VMP-18-8.5-040711	4/7/2011	<0.0077	J	U	<0.0077	J	U	<0.0077	J	U	0.0019	J		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-18-8.5-072811	7/28/2011	<0.0083	U		<0.0083	U		<0.0083	U		0.0027	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-18-8.5-110711	11/7/2011	<0.0054	U		<0.0054	U		<0.0054	U		0.0018	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-18-8.5-012312	1/23/2012	<0.0058	U		<0.0058	U		<0.0058	U		0.0028	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-18-8.5-041012	4/10/2012	<0.006	U		<0.006	U		<0.006	J	U	0.002	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-18-8.5-071212	7/12/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0017	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-18-8.5-100912	10/9/2012	<0.0079	U		<0.0079	U		<0.0079	J	U	0.0024	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.008	U		<0.008	U		<0.008	U		0.0021	J		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-19-5-090110	9/1/2010	0.0019	J		<0.0078	J	U	<0.0078	J	U	0.0028	J		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-19-5-111510	11/15/2010	<0.0083	U		<0.0083	U		<0.0083	U		0.0023	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-19-5-020411	2/4/2011	<0.0073	J	U	<0.0073	J	U	<0.0073	J	U	0.0028	J		<0.0049	U		0.0009	J		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-19-5-040711	4/7/2011	0.00068	J		<0.0081	U		0.00088	J		0.0021	J		<0.0055	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.0054	U	
		VMP-19-5-080911	8/9/2011	<0.0089	J	U	<0.0089	J	U	<0.0089	J	U	0.0027	J		<0.006	U		<0.006	J	U	<0.0059	U		<0.0059	U		<0.0059	U	
		VMP-19-5-080911-DUP	8/9/2011	<0.0085	J	U	<0.0085	J	U	<0.0085	J	U	0.0026	J		<0.0057	U		<0.0057	J	U	<0.0056	U		<0.0056	U		<0.0056	U	
		VMP-19-5-110811	11/8/2011	<0.0059	U		<0.0059	U		<0.0059	U		0.0019	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-19-5-012612	1/26/2012	<0.0051	U		<0.0051	U		<0.0051	U		0.0026	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-19-5-041012	4/10/2012	<0.0059	U		<0.0059	U		<0.0059	J	U	0.002	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-19-5-071112	7/11/2012	<0.0067	U		<0.0067	U		<0.0067	U		<0.0055	U		<0.0045	U		<0.0045	U		<0.0044	U		<0.0044	U		<0.0044	U	
		VMP-19-5-100912	10/9/2012	<0.0089	U		<0.0089	U		<0.0089	J	U	0.0028	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0073	U		<0.0073	U		<0.0073	U		0.003	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-20-5-041511	4/15/2011	<0.08	U		<0.08	U		<0.08	U		<0.066	U		<0.054	U		<0.054	U		<0.053	U		<0.053	U		<0.053	U	
		VMP-20-5-072511	7/25/2011	<0.0085	U		0.0013	J		<0.0085	J	U	0.0022	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	UJ
		VMP-20-5-110111	11/1/2011	<0.0048	U		<0.0048	U		<0.0048	U		0.002	J		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-20-5-012312	1/23/2012	<0.023	U		<0.023	U		<0.023	U		<0.019	U		<0.016	U		<0.016	U		<0.015	U		<0.015	U		<0.015	U	
		VMP-20-5-041012	4/10/2012	<0.0053	U		<0.0053	U		<0.0053	U		0.0018	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-20-5-071112	7/11/2012	<0.007	U		<0.007	U		<0.007	U		<0.0058	U		<0.0047	U		<0.0047	U		<0.0046	U		<0.0046	U		<0.0046	U	
		VMP-20-5-073112	7/31/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0024	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-20-5-100412	10/4/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0023	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0073	U		<0.0073	U		<0.0073	U		0.0028	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-20-10-041511	4/15/2011	<0.073	U		<0.073	U		<0.073	U		<0.06	U		<0.049	U		<0.049	U		<0.048	U		<0.048	U		<0.048	U	
		VMP-20-10-072511	7/25/2011	0.0014	J		0.0019	J		0.0018	J		0.0025	J		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-20-10-110111	11/1/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0025	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-20-10-012312	1/23/2012	<0.0054	U		<0.0054	J	U	<0.0054	U		0.0033	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-20-10-041012	4/10/2012	<0.0051	U		<0.0051	U		<0.0051	U		0.0022	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-20-10-071112	7/11/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0019	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-20-10-100412	10/4/2012	<0.0081	U		<0.0081	U		<0.0081	J	U	0.0027	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0072	U		<0.0072	U		<0.0072	U		0.0032	J		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-20-25-041511	4/15/2011	<0.083	U		<0.083	U		<0.083	U		<0.068	U		<0.056	U		<0.056	U		<0.055	U		<0.055	U		<0.055	U	
		VMP-20-25-072611	7/26/2011	<0.55	U		<0.55	U		<0.55	U		<0.45	U		<0.37	U		<0.37	U		<0.36	U		<0.36	U		<0.36	U	
		VMP-20-25-110511	11/5/2011	<0.005	U		<0.005	U		<0.005	U		0.0026	J		<0.0034	U		<0.0034	U		<0.0033	U		0.00075	J		<0.0033	U	
		VMP-20-25-012312	1/23/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0031	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-20-25-041012	4/10/2012	<0.0053	U		<0.0053	U		<0.0053	U		0.0021	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-20-25-041012-Dup	4/10/2012	<0.0054	U		<0.0054	U		<0.0054	U		0.0026	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-20-25-071112	7/11/2012	<0.006	U		<0.006	U		<0.006	U		0.0025	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-20-25-100412	10/4/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0025	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	<2.2	U		<2.2	U		0.29	J		<1.8	U		<1.5	U		<1.5	U		<1.4	U		<1.4	U		<1.4	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-21-5-020911-DUP	2/9/2011	<4.8	U		<4.8	U		<4.8	U		<3.9	U		<3.2	U		<3.2	U		<3.2	U		<3.2	U		<3.2	U	
		VMP-21-5-041311	4/13/2011	<0.0079	U		<0.0079	U		<0.0079	J	U	0.0025	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-21-5-072511	7/25/2011	<0.0083	U		0.0013	J		<0.0083	J	U	0.0023	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-21-5-110111	11/1/2011	<0.0068	U		<0.0068	U		<0.0068	U		0.0022	J		<0.0046	U		<0.0046	U		<0.0045	U		<0.0045	U		<0.0045	U	
		VMP-21-5-012312	1/23/2012	<0.0058	U		<0.0058	J	U	<0.0058	U		0.0035	J		0.0034	J		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-21-5-012312-DUP	1/23/2012	<0.0054	U		<0.0054	J	U	<0.0054	U		0.0031	J		0.00082	J		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-21-5-042412	4/24/2012	<0.011	U		<0.011	U		<0.011	J	U	0.0028	J		<0.0074	U		<0.0074	U		<0.0072	U		<0.0072	U		<0.0072	U	
		VMP-21-5-071012	7/10/2012	<0.0064	U		<0.0064	U		<0.0064	U		0.0021	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-21-5-100412	10/4/2012	<0.0093	U		<0.0093	U		<0.0093	U		0.002	J		<0.0063	U		<0.0063	U		<0.0062	U		<0.0062	U		<0.0062	U	
	10 ft	VMP-21-10-021011	2/10/2011	<2.5	U		<2.5	U		<2.5	U		<2.1	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U	
		VMP-21-10-041311	4/13/2011	<0.32	U		<0.32	U		<0.32	U		<0.26	U		<0.21	U		<0.21	U		<0.21	U		<0.21	U		<0.21	U	
		VMP-21-10-072511	7/25/2011	<0.018	J	U	0.0033	J		<0.018	J	U	0.0025	J		<0.012	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-21-10-110111	11/1/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0022	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-21-10-012312	1/23/2012	<0.0058	U		<0.0058	U		<0.0058	U		0.0026	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-21-10-040912	4/9/2012	<0.0053	U		<0.0053	U		<0.0053	U		0.0023	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-21-10-071012	7/10/2012	<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-21-10-100412	10/4/2012	<0.0085	U		<0.0085	U		<0.0085	U		0.0021	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
	25 ft	VMP-21-25-021011	2/10/2011	<7	U		<7	U		<7	U		<5.8	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		<4.6	U	
		VMP-21-25-041411	4/14/2011	<24	U		<24	U		<24	U		<20	U		<16	U		<16	U		<16	U		<16	U		<16	U	
		VMP-21-25-041411-DUP	4/14/2011	<24	U		<24	U		<24	U		<20	U		<16	U		<16	U		<16	U		<16	U		<16	U	
		VMP-21-25-072611	7/26/2011	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-21-25-110511	11/5/2011	<5	U		<5	U		<5	U		<4.2	U		<3.4	U		<3.4	U		<3.3	U		<3.3	U		<3.3	U	
		VMP-21-25-012412	1/24/2012	<0.07	U		<0.07	U		<0.07	U		<0.057	U		<0.047	U		<0.047	U		<0.046	U		<0.046	U		<0.046	U	
		VMP-21-25-040912	4/9/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0042	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-21-25-071112	7/11/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0022	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-21-25-100412	10/4/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0026	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	33 ft	VMP-21-33-021011	2/10/2011	<7	U		<7	U		<7	U		<5.8	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		<4.6	U	
		VMP-21-33-041411	4/14/2011	<24	U		<24	U		<24	U		<19	U		<16	U		<16	U		<16	U		<16	U		<16	U	
		VMP-21-33-110511	11/5/2011	<1.1	U		<1.1	U		<1.1	U		<0.94	U		<0.77	U		<0.77	U		<0.76	U		<0.76	U		<0.76	U	
		VMP-21-33-012412	1/24/2012	<0.16	U		<0.16	U		<0.16	U		<0.14	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-21-33-042412	4/24/2012	<0.0056	U		<0.0056	U		<0.0056	J	U	0.0029	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-21-33-071112	7/11/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0031	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-21-33-100412	10/4/2012	<0.0085	U		<0.0085	U		<0.0085	U		0.0028	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.15	U		<0.15	U		<0.15	U		<0.13	U		<0.1	U		<0.1	U		<0.1	U		<0.1	U		<0.1	U	
		VMP-22-5-041811	4/18/2011	<0.076	U		<0.076	U		<0.076	U		<0.062	U		<0.051	U		<0.051	U		<0.05	U		<0.05	U		<0.05	U	
		VMP-22-5-072611	7/26/2011	<0.0089	J	U	0.0033	J		<0.0089	J	U	0.0023	J		<0.006	U		<0.006	J	U	<0.0059	U		<0.0059	U		<0.0059	U	
		VMP-22-5-110111	11/1/2011	<0.005	U		<0.005	U		<0.005	U		0.0021	J		<0.0034	U		<0.0034	U		<0.0033	U		<0.0033	U		<0.0033	U	
		VMP-22-5-012412	1/24/2012	<0.0053	U		<0.0053	J	U	<0.0053	U		0.0031	J	J	<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-22-5-040912	4/9/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0028	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-22-5-070912	7/9/2012	<0.0065	U		<0.0065	U		<0.0065	U		0.002	J		<0.0044	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.0043	U	
		VMP-22-5-100312	10/3/2012	<0.0076	U		<0.0076	U		<0.0076	U		0.0024	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-22-5-100312-Dup	10/3/2012	<0.0069	U		<0.0069	U		<0.0069	U		0.0026	J		<0.0046	U		<0.0046	U		<0.0045	U		<0.0045	U		<0.0045	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.073	U		<0.073	U		<0.073	U		<0.06	U		<0.049	U		<0.049	U		<0.048	U		<0.048	U		<0.048	U	
		VMP-22-10-041811	4/18/2011	<0.078	U		<0.078	U		<0.078	U		<0.064	U		<0.053	U		<0.053	U		<0.052	U		<0.052	U		<0.052	U	
		VMP-22-10-072611	7/26/2011	<0.0091	J	U	0.0028	J		<0.0091	J	U	0.0023	J		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
		VMP-22-10-072611-DUP	7/26/2011	<0.011	J	U	0.0027	J		<0.011	J	U	0.0019	J		<0.0072	U		<0.0072	U		<0.007	U		<0.007	U		<0.007	U	
		VMP-22-10-110211	11/2/2011	<0.0051	U		<0.0051	U		<0.0051	U		0.0024	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-22-10-012412	1/24/2012	<0.0058	U		<0.0058	J	U	<0.0058	U		0.0032	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-22-10-040912	4/9/2012	<0.0058	U		<0.0058	U		<0.0058	U		0.0031	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-22-10-070912	7/9/2012	<0.0065	U		<0.0065	U		<0.0065	U		0.0021	J		<0.0044	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.0043	U	
		VMP-22-10-070912-Dup	7/9/2012	<0.0064	U		<0.0064	U		<0.0064	U		0.0017	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-22-10-100312	10/3/2012	<0.0073	U		<0.0073	U		<0.0073	J	U	0.0024	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
	18 ft	VMP-22-18-021111	2/11/2011	<1.3	U		<1.3	U		<1.3	U		<1	U		<0.86	U		<0.86	U		<0.84	U		<0.84	U		<0.84	U	
		VMP-22-18-041811	4/18/2011	<5.4	U		<5.4	U		<5.4	U		<4.4	U		<3.6	U		<3.6	U		<3.6	U		<3.6	U		<3.6	U	
		VMP-22-18-072611	7/26/2011	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-22-18-110511	11/5/2011	<0.0055	U		<0.0055	U		<0.0055	U		0.0024	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-22-18-012412	1/24/2012	<0.05	U		<0.05	U		<0.05	U		<0.042	U		<0.034	U		<0.034	U		<0.033	U		<0.033	U		<0.033	U	
		VMP-22-18-040912	4/9/2012	<0.006	U		<0.006	U		<0.006	U		0.0027	J		<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-22-18-070912	7/9/2012	<0.0064	U		<0.0064	U		<0.0064	U		0.002	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-22-18-100412	10/4/2012	<0.0087	U		<0.0087	J	U	<0.0087	J	U	0.0022	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	38 ft	VMP-22-38-041811	4/18/2011	<16	U		<16	U		<16	U		<14	U		<11	U		<11	U		<11	U		<11	U		<11	U	
		VMP-22-38-012512	1/25/2012	<0.05	U		<0.05	U		<0.05	U		<0.042	U		<0.034	U		<0.034	U		<0.033	U		<0.033	U		<0.033	U	
		VMP-22-38-040912	4/9/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.003	J		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-22-38-070912	7/9/2012	<0.0062	U		<0.0062	U		<0.0062	U		<0.0051	U		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-22-38-100412	10/4/2012	<0.0091	U		<0.0091	J	U	<0.0091	J	U	0.0026	J		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0079	U		<0.0079	U		<0.0079	J	U	0.0021	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-23-5-042111	4/21/2011	<0.069	U		<0.069	U		<0.069	U		<0.057	U		<0.046	U		<0.046	U		<0.045	U		<0.045	U		<0.045	U	
		VMP-23-5-072711	7/27/2011	<0.0079	U		<0.0079	U		<0.0079	U		0.0016	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-23-5-110211	11/2/2011	<0.0056	U		<0.0056	U		<0.0056	U		0.002	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-23-5-012512	1/25/2012	<0.0047	U		<0.0048	U		0.0012	J		0.0027	J		<0.0032	U		<0.0032	U		<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-23-5-040912	4/9/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0033	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-23-5-070912	7/9/2012	<0.0051	U		<0.0051	U		<0.0051	U		0.0021	J		<0.0035	U		<0.0035	U		<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-23-5-100312	10/3/2012	<0.0087	U		<0.0087	U		<0.0087	J	U	0.0022	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
	10 ft	VMP-23-10-021511	2/15/2011	0.0024	J		<0.0082	J	U	<0.0082	J	U	<0.0068	U		<0.0055	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.0054	U	
		VMP-23-10-042111	4/21/2011	<0.083	U		<0.083	U		<0.083	U		<0.068	U		<0.056	U		<0.056	U		<0.055	U		<0.055	U		<0.055	U	
		VMP-23-10-072711	7/27/2011	<0.0076	U		<0.0076	U		<0.0076	U		<0.0062	U		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-23-10-110211	11/2/2011	<0.0055	U		<0.0055	U		<0.0055	U		0.0019	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-23-10-012512	1/25/2012	<0.0046	U		<0.0046	U		<0.0046	U		0.0023	J		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-23-10-040912	4/9/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0035	J		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-23-10-040912-Dup	4/9/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0034	J		<0.004	U		0.0028	J		0.002	J		<0.0039	U		<0.0039	U	
		VMP-23-10-070912	7/9/2012	<0.0046	U		<0.0046	U		<0.0046	U		0.0022	J		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-23-10-100312	10/3/2012	<0.0093	U		<0.0093	U		<0.0093	J	U	0.0026	J		<0.0063	U		<0.0063	U		<0.0062	U		<0.0062	U		<0.0062	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0076	U		<0.0076	U		0.0012	J		<0.0062	U		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-23-25-042111	4/21/2011	<0.078	U		<0.078	U		<0.078	U		<0.064	U		<0.052	U		<0.052	U		<0.051	U		<0.051	U		<0.051	U	
		VMP-23-25-072711	7/27/2011	0.003	J		0.0035	J		0.0043	J		<0.0071	U		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
		VMP-23-25-110511	11/5/2011	<0.0055	U		<0.0055	U		<0.0055	U		0.0015	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-23-25-012512	1/25/2012	<0.0049	U		<0.0049	U		<0.0049	U		0.002	J		<0.0033	U		<0.0033	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-23-25-040912	4/9/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0032	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-23-25-071012	7/10/2012	<0.0073	U		<0.0073	U		<0.0073	U		0.0024	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-23-25-100312	10/3/2012	<0.0091	U		<0.0091	U		<0.0091	J	U	0.0021	J		<0.0061	U		<0.0061	U		<0.006	U		<0.006	U		<0.006	U	
	40 ft	VMP-23-40-071012	7/10/2012	<0.0062	U		<0.0062	U		<0.0062	U		0.0015	J		<0.0042	U		<0.0042	U		<0.0041	U		<0.0041	U		<0.0041	U	
		VMP-23-40-100312	10/3/2012	<0.0084	U		<0.0084	U		<0.0084	J	U	0.0025	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0085	J	U	<0.0085	J	U	<0.0085	J	U	0.0017	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
		VMP-24-5-040811	4/8/2011	<0.09	U		<0.09	U		<0.09	U		<0.074	U		<0.061	U		<0.061	U		<0.06	U		<0.06	U		<0.06	U	
		VMP-24-5-072811	7/28/2011	0.0021	J		0.0027	J		0.0036	J		0.002	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
		VMP-24-5-110211	11/2/2011	<0.0056	U		<0.0056	U		<0.0056	U		0.0024	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-24-5-110211-DUP	11/2/2011	<0.0078	U		<0.0078	U		<0.0078	J	U	0.0023	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-24-5-012512	1/25/2012	<0.0048	U		<0.0048	U		<0.0048	U		0.0026	J		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-24-5-040912	4/9/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0032	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-24-5-071212	7/12/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0021	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-24-5-101912	10/19/2012	<0.0085	U		<0.0085	U		<0.0085	J	U	0.0025	J		<0.0057	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.0056	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0081	U		<0.0081	U		<0.0081	U		0.0025	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-24-10-041111	4/11/2011	<0.015	U		<0.015	U		<0.015	U		0.0013	J		<0.01	U		<0.01	U		<0.01	U		<0.01	U		<0.01	U	
		VMP-24-10-072811	7/28/2011	0.0014	J		<0.0083	U		0.0023	J		0.0019	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-24-10-110211	11/2/2011	<0.0049	U		<0.0049	U		<0.0049	U		0.0022	J		<0.0033	U		<0.0033	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-24-10-012512	1/25/2012	<0.0046	U		<0.0046	U		<0.0046	U		0.0024	J		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U		<0.0031	U	
		VMP-24-10-041012	4/10/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0036	J		<0.0037	U		<0.0037	U		<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-24-10-071212	7/12/2012	<0.0064	U		<0.0064	U		<0.0064	U		0.0023	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-24-10-100912	10/9/2012	<0.0079	U		<0.0079	U		<0.0079	J	U	0.0026	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0081	U		<0.0081	U		<0.0081	U		0.0026	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-24-22-041111	4/11/2011	<0.0076	U		<0.0076	U		<0.0076	U		0.0032	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-24-22-072811	7/28/2011	0.001	J		<0.0076	U		0.0016	J		0.0024	J		<0.0051	U		<0.0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-24-22-072811-Dup	7/28/2011	0.001	J		<0.0087	U		0.002	J		0.0019	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
		VMP-24-22-110611	11/6/2011	<0.0053	U		<0.0053	U		<0.0053	U		0.0029	J		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-24-22-012512	1/25/2012	<0.0049	U		<0.0049	U		<0.0049	U		0.0026	J		<0.0033	U		<0.0033	U		<0.0032	U		<0.0032	U		<0.0032	U	
		VMP-24-22-041012	4/10/2012	<0.0054	U		<0.0054	U		<0.0054	U		0.0031	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-24-22-071212	7/12/2012	<0.0065	U		<0.0065	U		<0.0065	U		<0.0054	U		<0.0044	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.0043	U	
		VMP-24-22-100912	10/9/2012	<0.0081	U		<0.0081	U		<0.0081	U		0.0027	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0081	U		<0.0081	U		<0.0081	U		0.0022	J		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-24-34-041111	4/11/2011	<0.0073	U		<0.0073	U		<0.0073	U		0.0021	J		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-24-34-072811	7/28/2011	<0.0064	U		<0.0064	U		0.0015	J		0.0016	J		<0.0043	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.0042	U	
		VMP-24-34-110611	11/6/2011	<0.0041	U		<0.0041	U		<0.0041	U		0.0028	J		<0.0028	U		<0.0028	U		<0.0027	U		<0.0027	U		<0.0027	U	
		VMP-24-34-012512	1/25/2012	<0.005	U		0.0011	J		0.0013	J		0.0031	J		<0.0034	U		<0.0034	U		<0.0033	U		<0.0033	U		<0.0033	U	
		VMP-24-34-041012	4/10/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0033	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-24-34-071212	7/12/2012	<0.0054	U		<0.0054	U		<0.0054	U		0.0018	J		<0.0036	U		<0.0036	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-24-34-100912	10/9/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0024	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	<0.0057	U		<0.0057	U		<0.0057	J	U	0.0027	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-31-5-072012	7/20/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0026	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-31-5-102612	10/26/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0021	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	10 ft	VMP-31-10-042512	4/25/2012	<0.0077	U		<0.0077	U		<0.0077	J	U	0.0025	J		<0.0052	U		<0.0052	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-31-10-072612	7/26/2012	<0.0059	U		<0.0059	J	U	<0.0059	J	U	0.0035	J		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-31-10-102612	10/26/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0023	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
	20 ft	VMP-31-20-101912	10/19/2012	<8.3	U		<8.3	U		<8.3	U		<6.8	U		<5.6	U		<5.6	U		<5.5	U		<5.5	U		<5.5	U	
	30 ft	VMP-31-30-042512	4/25/2012	<2.9	U		<2.9	U		<2.9	U		<2.4	U		<2	U		<2	U		<1.9	U		<1.9	U		<1.9	U	
		VMP-31-30-042512-Dup	4/25/2012	<2.9	U		<2.9	U		<2.9	U		<2.4	U		<2	U		<2	U		<1.9	U		<1.9	U		<1.9	U	
		VMP-31-30-072012	7/20/2012	<0.57	U		<0.57	U		<0.57	U		<0.47	U		<0.39	U		<0.39	U		<0.38	U		<0.38	U		<0.38	U	
		VMP-31-30-101912	10/19/2012	<0.52	U		<0.52	U		<0.52	U		<0.42	U		<0.35	U		<0.35	U		<0.34	U		<0.34	U		<0.34	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	0.0012	J		<0.0056	J	U	<0.0056	J	U	0.003	J		<0.0038	U		<0.0038	J	U	<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-32-5-072012	7/20/2012	<0.005	U		<0.005	U		<0.005	U		0.0025	J		<0.0034	U		<0.0034	U		<0.0033	U		<0.0033	U		<0.0033	U	
		VMP-32-5-101812	10/18/2012	<0.0096	U		<0.0096	U		<0.0096	U		<0.0079	U		<0.0064	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.0063	U	
	10 ft	VMP-32-10-041612	4/16/2012	<0.0051	U		<0.0051	U		<0.0051	J	U	0.0027	J		<0.0035	U		<0.0035	J	U	<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-32-10-072012	7/20/2012	<0.0059	U		<0.0059	U		<0.0059	U		0.0022	J		<0.004	U		<0.004	U		<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-32-10-101812	10/18/2012	<0.0089	U		<0.0089	U		<0.0089	U		0.0025	J		<0.006	U		<0.006	U		<0.0059	U		<0.0059	U		<0.0059	U	
	20 ft	VMP-32-20-041612	4/16/2012	0.041	J		0.05	J		0.058	J		<0.097	U		<0.079	U		<0.079	U		<0.078	U		<0.078	U		<0.078	U	
		VMP-32-20-072012	7/20/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0027	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-32-20-101812	10/18/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0026	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	30 ft	VMP-32-30-041612	4/16/2012	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-32-30-072012	7/20/2012	<5.8	U		<5.8	U		<5.8	U		<4.8	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U		<3.8	U	
		VMP-32-30-101812	10/18/2012	<0.33	U		<0.33	U		<0.33	U		<0.27	U		<0.22	U		<0.22	U		<0.22	U		<0.22	U		<0.22	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	<0.0051	U		<0.0051	U		<0.0051	J	U	0.0028	J		<0.0035	U		<0.0035	J	U	<0.0034	U		<0.0034	U		<0.0034	U	
		VMP-42-10-041812-Dup	4/18/2012	<0.0053	U		<0.0053	U		<0.0053	J	U	0.0027	J		<0.0035	U		<0.0035	J	U	<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-42-10-071912	7/19/2012	<0.0057	U		<0.0057	U		<0.0057	U		0.0028	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-42-10-101212	10/12/2012	<0.0093	U		<0.0093	U		<0.0093	J	U	0.0024	J		<0.0062	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.0061	U	
	20 ft	VMP-42-20-041812	4/18/2012	<2.7	U		0.92	J		0.98	J		<2.2	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-42-20-071912	7/19/2012	<0.0056	U		<0.0056	U		<0.0056	J	U	0.0025	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-42-20-101212	10/12/2012	<0.0082	U		<0.0082	U		<0.0082	U		0.0023	J		<0.0055	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.0054	U	
		VMP-42-20-101212-Dup	10/12/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0023	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	30 ft	VMP-42-30-041912	4/19/2012	<5.6	U		<5.6	U		<5.6	U		<4.6	U		<3.8	U		<3.8	U		<3.7	U		<3.7	U		<3.7	U	
		VMP-42-30-071912	7/19/2012	<0.0053	U		<0.0053	U		<0.0053	U		0.0029	J	J	<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U		<0.0035	U	
		VMP-42-30-101212	10/12/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0022	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
		VMP-42-30-101212-Dup	10/12/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0024	J		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.0057	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	<0.0059	U		<0.0059	U		<0.0059	J	U	0.0025	J		<0.004	U		<0.004	J	U	<0.0039	U		<0.0039	U		<0.0039	U	
		VMP-43-10-071912	7/19/2012	<0.011	U		<0.011	U		<0.011	U		0.0021	J		<0.0076	U		<0.0076	U		<0.0074	U		<0.0074	U		<0.0074	U	
		VMP-43-10-101612	10/16/2012	<0.0096	U		<0.0096	U		<0.0096	U		0.0022	J		<0.0064	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.0063	U	
	20 ft	VMP-43-20-041612	4/16/2012	<0.057	U		<0.057	U		<0.057	U		<0.047	U		<0.039	U		<0.039	U		<0.038	U		<0.038	U		<0.038	U	
		VMP-43-20-071912	7/19/2012	<0.021	U		<0.021	U		<0.021	U		0.0046	J		<0.014	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U	
		VMP-43-20-101812	10/18/2012	<0.0079	U		<0.0079	U		<0.0079	U		0.0031	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
	30 ft	VMP-43-30-042312	4/23/2012	<0.053	U		<0.053	U		<0.053	U		<0.043	U		<0.035	U		<0.035	U		<0.035	U		<0.035	U		<0.035	U	
		VMP-43-30-071912	7/19/2012	<0.0057	U		<0.0057	U		0.0011	J		0.003	J		<0.0039	U		<0.0039	U		<0.0038	U		<0.0038	U		<0.0038	U	
		VMP-43-30-101812	10/18/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0025	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-44-10-072012	7/20/2012	<0.92	U		<0.92	U		<0.92	U		<0.76	U		<0.62	U		<0.62	U		<0.61	U		<0.61	U		<0.61	U	
		VMP-44-10-081012	8/10/2012	<0.55	U		<0.55	U		<0.55	U		<0.45	U		<0.37	U		<0.37	U		<0.36	U		<0.36	U		<0.36	U	
		VMP-44-10-101212	10/12/2012	<1.7	U		<1.7	U		<1.7	U		<1.4	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U	
	20 ft	VMP-44-20-041912	4/19/2012	<0.6	U		<0.6	U		<0.6	U		<0.5	U		<0.41	U		<0.41	U		<0.4	U		<0.4	U		<0.4	U	
		VMP-44-20-072512	7/25/2012	<1	U		<1	U		<1	U		<0.85	U		<0.69	U		<0.69	U		<0.68	U		<0.68	U		<0.68	U	
		VMP-44-20-101212	10/12/2012	<3.4	U		<3.4	U		<3.4	U		<2.8	U		<2.3	U		<2.3	U		<2.3	U		<2.2	U		<2.2	U	
	30 ft	VMP-44-30-041912	4/19/2012	<0.35	U		<0.35	U		<0.35	U		<0.29	U		<0.24	U		<0.24	U		<0.23	U		<0.23	U		<0.23	U	
		VMP-44-30-072512	7/25/2012	<0.059	U		<0.059	U		<0.059	U		<0.048	U		<0.04	U		<0.04	U		<0.039	U		<0.039	U		<0.039	U	
		VMP-44-30-072512-Dup	7/25/2012	<0.059	U		<0.059	U		<0.059	U		<0.048	U		<0.04	U		<0.04	U		<0.039	U		<0.039	U		<0.039	U	
		VMP-44-30-101512	10/15/2012	<0.36	U		<0.36	U		<0.36	U		<0.3	U		<0.24	U		<0.24	U		<0.24	U		<0.24	U		<0.24	U	
		VMP-44-30-101512-Dup	10/15/2012	<0.34	U		<0.34	U		<0.34	U		<0.28	U		<0.23	U		<0.23	U		<0.22	U		<0.22	U		<0.22	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				290						1200						690			0.099			240			1100000			85		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	<0.0055	U		<0.0055	U		<0.0055	U		0.0028	J		<0.0037	U		<0.0037	J	U	<0.0036	U		<0.0036	U		<0.0036	U	
		VMP-45-10-071912	7/19/2012	<0.0056	U		<0.0056	U		<0.0056	U		0.0026	J		<0.0038	U		<0.0038	U		<0.0037	U		<0.0037	U		<0.0037	U	
		VMP-45-10-101512	10/15/2012	<0.0087	U		<0.0087	U		<0.0087	U		0.0021	J		<0.0059	U		<0.0059	U		<0.0058	U		<0.0058	U		<0.0058	U	
	20 ft	VMP-45-20-041912	4/19/2012	<0.34	U		<0.34	U		<0.34	U		<0.28	U		<0.23	U		<0.23	U		<0.23	U		<0.22	U		<0.22	U	
		VMP-45-20-071912	7/19/2012	<0.11	U		<0.11	U		<0.11	U		<0.088	U		<0.072	U		<0.072	U		<0.07	U		<0.07	U		<0.07	U	
		VMP-45-20-101512	10/15/2012	<0.0083	U		<0.0083	U		<0.0083	U		0.0023	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	30 ft	VMP-45-30-041912	4/19/2012	<0.23	U		<0.23	U		<0.23	U		<0.19	U		<0.15	U		<0.15	U		<0.15	U		<0.15	U		<0.15	U	
		VMP-45-30-071912	7/19/2012	<0.057	U		<0.057	U		<0.057	U		<0.047	U		<0.039	U		<0.039	U		<0.038	U		<0.038	U		<0.038	U	
		VMP-45-30-101512	10/15/2012	<0.0083	U		<0.0083	U		<0.0083	J	U	0.0025	J		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.0082	U		<0.0082	U		<0.0082	U		0.003	J		<0.0055	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.0054	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	<0.015	U		<0.02	U		<0.019	U		<0.019	U		0.015	J		0.03	J		<0.018	U		<0.021	U		<0.032	U	
		VMP-1-5-111710	11/17/2010	<0.018	U		<0.024	U		<0.023	U		<0.023	U		<0.074	U		0.0087	J		0.0052	J		<0.025	U		<0.039	U	
		VMP-1-5-020411	2/4/2011	<0.35	U		<0.47	U		<0.46	U		<0.46	U		<1.4	U		<0.76	U		<0.44	U		<0.5	U		<0.77	U	
		VMP-1-5-041211	4/12/2011	0.0012	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		<0.0099	U		0.017			0.0018	J		<0.01	U	
		VMP-1-5-080111	8/1/2011	0.0098			<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.078			0.0026	J		0.0026	J		<0.01	U	
		VMP-1-5-110311	11/3/2011	2.9	J		<16	U		<16	U		<16	U		<50	U		<26	U		<15	U		<17	U		<27	U	
		VMP-1-5-013012	1/30/2012	0.37	J	J	<1.3	U		<1.3	U		<1.3	U		<4.2	U		<2.2	U		<1.3	U		<1.4	U		<2.2	U	
		VMP-1-5-041312	4/13/2012	<0.031	J	U	<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.02			0.0015	J		<0.0044	U		<0.0068	U	
		VMP-1-5-071612	7/16/2012	0.0028	J		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.16			0.014			0.0048			<0.007	U	
		VMP-1-5-101112	10/11/2012	0.0025	J		<0.011	U		<0.01	U		<0.01	U		<0.033	UJ	UJ	0.0033	J	J	<0.01	U		<0.011	U		<0.018	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	<0.045	U		<0.059	U		<0.058	U		<0.058	U		<0.18	U		<0.097	U		<0.056	U		<0.063	U		<0.098	U	
		VMP-1-8.5-111710	11/17/2010	<0.0086	U		<0.011	U		<0.011	U		<0.011	U		<0.036	U		0.011	J		0.0048	J		<0.012	U		<0.019	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.0086	U		<0.011	U		<0.011	U		<0.011	U		<0.036	U		0.009	J		0.0031	J		<0.012	U		<0.019	U	
		VMP-1-8.5-020411	2/4/2011	<0.69	U		<0.92	U		<0.9	U		<0.9	U		<2.9	U		2.1			<0.86	U		<0.98	U		<1.5	U	
		VMP-1-8.5-041211	4/12/2011	<0.006	U		<0.008	U		<0.0079	U		<0.0079	U		<0.025	U		<0.013	J	U	0.01			0.0023	J		<0.013	U	
		VMP-1-8.5-080111	8/1/2011	<2.5	U		<3.3	U		<3.3	U		<3.3	U		<10	U		<5.4	U		<3.1	U		<3.5	U		<5.5	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<2.4	U		<3.2	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3.1	U		<3.5	U		<5.4	U	
		VMP-1-8.5-110311	11/3/2011	<28	U		<37	U		<36	U		<36	U		<120	U		<61	U		<35	U		<40	U		<62	U	
		VMP-1-8.5-013012	1/30/2012	1.9	J		<8.1	U		<7.9	U		<7.9	U		<25	U		<13	U		<7.6	U		<8.6	U		<13	U	
		VMP-1-8.5-041612	4/16/2012	<0.037	J	U	<0.0049	U		<0.0048	U		0.0018	J		<0.015	U		0.0089		J	0.0039	J		<0.0052	U		<0.0081	U	
		VMP-1-8.5-041612-Dup	4/16/2012	<0.036	J	U	<0.0048	U		<0.0047	U		0.0014	J		<0.015	U		0.013		J	0.0036	J		0.00098	J		<0.0079	U	
		VMP-1-8.5-071612	7/16/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.13			0.0072			0.0032	J		<0.007	U	
		VMP-1-8.5-101112	10/11/2012	<0.049	J	U	<0.0065	U		<0.0064	U		<0.0064	U		<0.02	UJ	UJ	0.0026	J	J	<0.0061	U		<0.0069	U		<0.011	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<1.6	U		<2.1	U		<2	U		<2	U		<6.5	U		<3.4	U		<1.9	U		<2.2	U		<3.4	U	
		VMP-1-23.5-111810	11/17/2010	0.00074	J		0.0014	J		<0.0056	U		<0.0056	U		<0.018	U		0.0087	J		0.0015	J		<0.0061	U		<0.0095	U	
		VMP-1-23.5-020411	2/4/2011	<4	U		<5.4	U		<5.3	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U		<8.9	U	
		VMP-1-23.5-041211	4/12/2011	2.6	J		<8.8	U		<8.6	U		<8.6	U		<27	U		4.9	J		0.93	J		<9.3	U		<14	U	
		VMP-1-23.5-041211-DUP	4/12/2011	1.5	J		<11	U		<11	U		<11	U		<34	U		<18	U		1.3	J		<12	U		<18	U	
		VMP-1-23.5-080111	8/1/2011	<45	U		<60	U		<58	U		<58	U		<180	U		<97	U		<56	U		<63	U		<99	U	
		VMP-1-23.5-110611	11/6/2011	3	J		<14	U		<14	U		<14	U		<44	U		<23	U		<13	U		<15	U		<23	U	
		VMP-1-23.5-013112	1/31/2012	<21	U		<28	U		<27	U		<27	U		<86	U		<45	U		<26	U		<29	U		<46	U	
		VMP-1-23.5-041612	4/16/2012	<1.6	U		3.3			<2.2	U		<2.2	U		<6.9	U		<3.6	U		<2.1	U		<2.3	U		<3.6	U	
		VMP-1-23.5-071612	7/16/2012	<21	U		<28	U		<27	U		<27	U		<87	U		<45	U		<26	U		<30	U		<46	U	
		VMP-1-23.5-102412	10/24/2012	<42	U		<56	U		<55	U		<55	U		<170	U		<91	U		<52	U		<59	U		<92	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	<0.032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.053			0.0018	J		0.00085	J		<0.0072	U	
		VMP-1-38.5-102612	10/26/2012	0.22	J		<3	U		<3	U		<3	U		<9.4	U		<4.9	U		<2.8	U		<3.2	U		<5	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<1.6	U		<2.1	U		<2	U		<2	U		<6.5	U		<3.4	U		<1.9	U		<2.2	U		<3.4	U	
		VMP-2-5-111610	11/16/2010	<2.3	U		<3	U		<3	U		<3	U		<9.5	U		<5	U		<2.9	U		<3.2	U		<5	U	
		VMP-2-5-020411	2/4/2011	<0.6	U		<0.8	U		<0.78	U		<0.78	U		<2.5	U		<1.3	U		<0.75	U		<0.85	U		<1.3	U	
		VMP-2-5-041311	4/13/2011	0.00083	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0071	J		0.0096			0.0011	J		<0.011	U	
		VMP-2-5-080211	8/2/2011	<5	U		<6.7	U		<6.6	U		<6.6	U		<21	U		<11	U		<6.3	U		<7.1	U		<11	U	
		VMP-2-5-110711	11/7/2011	0.0012	J		0.0005	J		<0.0039	U		<0.0039	U		<0.012	U		0.036			0.00091	J		0.0012	J		<0.0066	U	
		VMP-2-5-012512	1/25/2012	1			<0.45	U		<0.44	U		<0.44	U		<1.4	U		0.93			0.058	J		<0.48	U		<0.74	U	
		VMP-2-5-042512	4/25/2012	<0.13	U		<0.018	U		<0.017	U		<0.017	U		<0.055	U		0.1			0.0056	J		<0.019	U		<0.029	U	
		VMP-2-5-071612	7/16/2012	0.0022	J		<0.0043	U		<0.0042	U		<0.0042	U		0.016			0.14			0.008			0.0052			<0.0071	U	
		VMP-2-5-102412	10/24/2012	<0.05	J	U	<0.0066	U		<0.0065	U		<0.0065	U		<0.021	U		0.073			0.0017	J		<0.007	U		<0.011	U	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<1.6	U		<2.1	U		<2.1	U		<2.1	U		<6.6	U		<3.5	U		<2	U		<2.3	U		<3.5	U	
		VMP-2-8.5-111610	11/16/2010	<4.4	U		<5.8	U		<5.7	U		<5.7	U		<18	U		<9.5	U		<5.5	U		<6.2	U		<9.6	U	
		VMP-2-8.5-020411	2/4/2011	<1.5	U		<2	U		<2	U		<2	U		<6.2	U		<3.2	U		<1.9	U		<2.1	U		<3.3	U	
		VMP-2-8.5-041311	4/13/2011	<0.46	U		<0.61	U		<0.6	U		<0.6	U		<1.9	U		<0.99	U		<0.57	U		<0.65	U		<1	U	
		VMP-2-8.5-080211	8/2/2011	<18	U		<24	U		<24	U		<24	U		<76	U		<40	U		<23	U		<26	U		<41	U	
		VMP-2-8.5-110711	11/7/2011	<0.04	U		<0.053	U		<0.052	U		<0.052	U		<0.16	U		0.035	J		<0.049	U		<0.056	U		<0.087	U	
		VMP-2-8.5-012612	1/26/2012	<1.8	U		<2.3	U		<2.3	U		<2.3	U		<7.3	U		<3.8	U		<2.2	U		<2.5	U		<3.9	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<1.8	U		<2.3	U		<2.3	U		<2.3	U		<7.3	U		<3.8	U		<2.2	U		<2.5	U		<3.9	U	
		VMP-2-8.5-041612	4/16/2012	<0.034	J	U	<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.012		J	0.0043			0.0014	J		<0.0075	U	
		VMP-2-8.5-041612-Dup	4/16/2012	<0.035	J	U	<0.0046	U		<0.0046	U		0.0013	J		<0.014	U		0.0094		J	0.0047			0.0011	J		<0.0077	U	
		VMP-2-8.5-071612	7/16/2012	<0.039	J	U	<0.0052	U		<0.0051	J	U	0.002	J		<0.016	U		0.12			0.0067			0.0049	J		<0.0086	U	
		VMP-2-8.5-071612-Dup	7/16/2012	0.0022	J		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.1			0.0084			0.0092			<0.007	U	
		VMP-2-8.5-102312	10/23/2012	<0.05	U		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.011			0.0056	J		0.0059	J		<0.011	U	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<2.4	U		<3.2	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3.1	U		<3.5	U		<5.4	U	
		VMP-2-22-111610	11/16/2010	<4.6	U		<6.1	U		<6	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U		<10	U	
		VMP-2-22-020411	2/4/2011	<2.1	U		<2.7	U		<2.7	U		<2.7	U		<8.6	U		<4.5	U		<2.6	U		<2.9	U		<4.6	U	
		VMP-2-22-041311	4/13/2011	<6.1	U		<8.1	U		<7.9	U		<7.9	U		<25	U		<13	U		<7.6	U		<8.6	U		<13	U	
		VMP-2-22-080211	8/2/2011	<24	U		<32	U		<32	U		<32	U		<100	U		<53	U		<31	U		<35	U		<54	U	
		VMP-2-22-110711	11/7/2011	<1.3	U		<1.7	U		<1.7	U		<1.7	U		<5.4	U		0.68	J		<1.6	U		<1.8	U		<2.9	U	
		VMP-2-22-012612	1/26/2012	<2.7	U		<3.6	U		<3.5	U		<3.5	U		<11	U		<5.8	U		<3.4	U		<3.8	U		<5.9	U	
		VMP-2-22-042712	4/27/2012	<0.028	J	U	<0.0037	U		<0.0036	U		<0.0036	U		<0.012	U		0.017			0.002	J		0.0012	J		<0.0062	U	
		VMP-2-22-071612	7/16/2012	0.0026	J		<0.0044	U		<0.0043	U		<0.0043	J	U	<0.014	U		0.28			0.01			0.0077			<0.0073	U	
		VMP-2-22-102312	10/23/2012	<0.05	J	U	<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.012			<0.0063	U		<0.0072	U		<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<4.6	U		<6.1	U		<6	U		<6	U		<19	U		<10	U		<5.8	U		<6.5	U		<10	U	
		VMP-3-5-112210	11/22/2010	14			<6.2	U		<6.1	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U		<10	U	
		VMP-3-5-020911	2/9/2011	<2.1	U		<2.8	U		<2.7	U		<2.7	U		<8.7	U		<4.6	U		<2.6	U		<3	U		<4.6	U	
		VMP-3-5-041411	4/14/2011	<22	U		<30	U		<30	U		<30	U		<94	U		<49	U		<28	U		<32	U		<50	U	
		VMP-3-5-080211	8/2/2011	0.0018	J		<0.0072	U		<0.007	U		<0.007	U		<0.022	U		0.18			0.0028	J		0.0019	J		<0.012	U	
		VMP-3-5-110811	11/8/2011	0.003			<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.014			<0.0037	U		0.00043	J		<0.0066	U	
		VMP-3-5-110811-DUP	11/8/2011	0.001	J		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.016			<0.0038	U		0.00045	J		<0.0067	U	
		VMP-3-5-012712	1/27/2012	0.68	J		<2	U		<2	U		<2	U		<6.3	U		<3.3	U		<1.9	U		<2.2	U		<3.4	U	
		VMP-3-5-041912	4/19/2012	<0.033	J	U	<0.0044	U		<0.0043	U		0.0011	J		0.041		J	0.025			0.0074			0.0037	J		<0.0073	U	
		VMP-3-5-072712	7/27/2012	0.0024	J		0.00081	J		<0.0046	U		<0.0046	U		<0.014	U		0.072			<0.0044	J	U	0.0028	J		<0.0077	U	
	10 ft	VMP-3-10	6/21/2010	<5.3	U		<7	U		<6.9	U		<6.9	U		<22	U		<11	U		<6.6	U		3.1	J		<12	U	
		VMP 3-10-091010	9/10/2010	<15	U		<20	U		<19	U		<19	U		<61	U		<32	U		<18	U		<21	U		<32	U	
		VMP-3-10-092010	9/20/2010	<11	U		<14	U		<14	U		<14	U		<45	U		<23	U		<13	U		<15	U		<24	U	
		VMP-3-10-112210	11/22/2010	<4.6	U		<6.1	U		<6	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U		<10	U	
		VMP-3-10-112210-Dup	11/22/2010	<6.4	U		<8.5	U		<8.4	U		<8.4	U		<26	U		<14	U		<8	U		<9	U		<14	U	
		VMP-3-10-020811	2/8/2011	<6.7	U		<9	U		<8.8	U		<8.8	U		<28	U		<15	U		<8.4	U		<9.5	U		<15	U	
		VMP-3-10-041311	4/13/2011	<39	U		<52	U		<51	U		<51	U		<160	U		<85	U		<49	U		<55	U		<86	U	
		VMP-3-10-080311	8/3/2011	<0.049	U		<0.066	U		<0.064	U		<0.064	U		<0.2	U		0.1	J		<0.062	U		<0.07	U		<0.11	U	
		VMP-3-10-110811	11/8/2011	<0.004	J	U	<0.0054	U		<0.0053	U		<0.0053	U		<0.017	U		0.01			<0.005	U		<0.0057	U		<0.0089	U	
		VMP-3-10-012712	1/27/2012	<0.029	U		<0.039	U		<0.038	U		<0.038	U		<0.12	U		0.018	J		0.023	J		0.041	J		<0.064	U	
		VMP-3-10-042012	4/20/2012	<0.03	J	U	0.00088	J		<0.0039	J	U	<0.0039	J	U	<0.012	U		0.021			0.002	J		0.0013	J		<0.0066	U	
		VMP-3-10-072312	7/23/2012	0.0032	J		<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.018			<0.0044	U		0.00078	J		<0.0077	U	
		VMP-3-10-101812	10/18/2012	<0.053	U		<0.007	U		<0.0069	U		<0.0069	U		<0.022	U		0.02			0.012			0.011			<0.012	U	
	22 ft	VMP-3-22-092010	9/20/2010	<14	U		<19	U		<18	U		<18	U		<58	U		<31	U		9.4	J		7.7	J		<31	U	
		VMP-3-22-112210	11/22/2010	19			<22	U		<21	U		<21	U		<67	U		<35	U		<20	U		<23	U		<36	U	
		VMP-3-22-020811	2/8/2011	<8	U		<10	U		<10	U		<10	U		<33	U		<17	U		3.6	J		<11	U		<18	U	
		VMP-3-22-041511	4/15/2011	<43	U	UJ	<57	U		<56	U		<56	U		<180	U		<93	U		<54	U		<61	U		<95	U	
		VMP-3-22-080611	8/6/2011	<0.069	U		<0.091	U		<0.09	U		<0.09	U		<0.28	U		0.16			0.025	J		<0.097	U		<0.15	U	
		VMP-3-22-110811	11/8/2011	0.0021	J		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.12			<0.0038	U		<0.0043	J	U	<0.0067	U	
		VMP-3-22-013012	1/30/2012	<0.012	U		<0.016	U		<0.016	U		<0.016	U		0.013	J		<0.026	U		0.0087	J		<0.017	U		<0.027	U	
		VMP-3-22-042012	4/20/2012	<0.03	J	U	<0.004	U		<0.004	U		<0.004	J	U	<0.013	U		0.022			0.0015	J		0.001	J		<0.0067	U	
		VMP-3-22-072312	7/23/2012	0.0015	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.013			<0.0042	U		<0.0048	U		<0.0075	U	
		VMP-3-22-101812	10/18/2012	<0.051	U		<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.0042	J		<0.0064	U		<0.0073	U		<0.011	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<26	U		<35	U		<34	U		<34	U		<110	U		<57	U		57			53			<58	U	
		VMP-3-31.5-112210	11/22/2010	<18	U		<24	U		<24	U		<24	U		<76	U		<40	U		50			17	J		<41	U	
		VMP-3-31.5-020911	2/9/2011	<18	U		<23	U		<23	U		<23	U		<73	U		<38	U		33			<25	U		<39	U	
		VMP-3-31.5-041411	4/14/2011	<140	U		<190	U		<190	U		<190	U		<600	U		<310	U		<180	U		<200	U		<320	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<140	U		<190	U		<190	U		<190	U		<600	U		<310	U		<180	U		<200	U		<320	U	
		VMP-3-31.5-080211	8/2/2011	<330	U		<430	U		<430	U		<430	U		<1400	U		<710	U		<410	U		<460	U		<720	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<190	U		<250	U		<250	U		<250	U		<790	U		<410	U		<240	U		<270	U		<420	U	
		VMP-3-31.5-110811	11/8/2011	<7.6	U		<10	U		<9.9	U		<9.9	U		<32	U		5.7	J		<9.5	U		<11	U		<17	U	
		VMP-3-31.5-012712	1/27/2012	14	J	J	<64	U		<63	U		<63	U		<200	U		<100	U		<60	U		<68	U		<110	U	
		VMP-3-31.5-041912	4/19/2012	<83	U		<110	U		<110	U		<110	U		<340	U		<180	U		<100	U		<120	U		<180	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<80	U		<100	U		<100	U		<100	U		<330	U		<170	U		<99	U		<110	U		<180	U	
		VMP-3-31.5-072312	7/23/2012	<20	U		<26	U		<26	U		<26	U		<82	U		<43	U		<25	U		<28	U		<44	U	
		VMP-3-31.5-101912	10/19/2012	<1.6	U		<2.1	U		<2.1	U		<2.1	U		<6.6	U		<3.5	U		<2	U		<2.3	U		<3.5	U	
	39 ft	VMP-3-39-101912	10/19/2012	<160	U		<210	U		<210	U		<210	U		<660	U		<350	U		31	J		<230	U		<350	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.25	U		<0.33	U		<0.33	U		<0.33	U		<1	U		<0.54	U		<0.31	U		0.061	J		<0.55	U	
		VMP-4-5-112210	11/22/2010	<9.3	U		<12	U		<12	U		<12	U		<39	U		<20	U		21			6.2	J		<21	U	
		VMP-4-5-021411	2/14/2011	<0.55	U		<0.73	U		<0.71	U		<0.71	U		<2.3	U		<1.2	U		<0.68	U		<0.77	U		<1.2	U	
		VMP-4-5-041911	4/19/2011	<25	U		<34	U		<33	U		<33	U		<100	U		<55	U		<31	U		<36	U		<56	U	
		VMP-4-5-080311	8/3/2011	<0.054	U		<0.072	U		<0.07	U		<0.07	U		<0.22	U		0.22			<0.068	U		<0.076	U		<0.12	U	
		VMP-4-5-110911	11/9/2011	<0.003	J	U	<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.028			0.00078	J		<0.0042	J	U	<0.0066	U	
		VMP-4-5-013012	1/30/2012	0.19		J	<0.2	U		<0.2	U		<0.2	U		<0.63	U		<0.33	U		<0.19	U		<0.22	U		<0.34	U	
		VMP-4-5-042512	4/25/2012	<0.038	J	U	<0.005	U		<0.0049	U		<0.0049	J	U	<0.016	U		0.089			0.0082			0.0041	J		<0.0083	U	
		VMP-4-5-072512	7/25/2012	0.0026	J		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.095			0.021			0.0093			<0.0082	U	
		VMP-4-5-101812	10/18/2012	<0.054	U		<0.0072	U		<0.007	U		<0.007	U		<0.022	U		0.041			<0.0068	U		<0.0076	U		<0.012	U	
	12 ft	VMP-4-12-082510	8/25/2010	<4.4	U		<5.8	U		<5.7	U		<5.7	U		<18	U		<9.5	U		7.8			3.6	J		<9.6	U	
		VMP-4-12-112310	11/23/2010	<4.5	U		<6	U		<5.8	U		<5.8	U		<18	U		<9.7	U		1.7	J		4.7	J		<9.9	U	
		VMP-4-12-021411	2/14/2011	<1.1	U		<1.5	U		<1.5	U		<1.5	U		<4.7	U		<2.4	U		<1.4	U		0.97	J		<2.5	U	
		VMP-4-12-041911	4/19/2011	<22	U		<29	U		<28	U		<28	U		<90	U		<47	U		33			11	J		<48	U	
		VMP-4-12-080311	8/3/2011	<2.5	U		<3.3	U		<3.3	U		<3.3	U		<10	U		<5.4	U		<3.1	U		<3.5	U		<5.5	U	
		VMP-4-12-080311-Dup	8/3/2011	<5	U		<6.7	U		<6.6	U		<6.6	U		<21	U		<11	U		<6.3	U		<7.1	U		<11	U	
		VMP-4-12-110911	11/9/2011	<0.76	U		<1	U		<0.99	U		<0.99	U		<3.2	U		<1.6	U		<0.95	U		<1.1	U		<1.7	U	
		VMP-4-12-013012	1/30/2012	<1.6	U		<2.1	U		<2	U		<2	U		<6.4	U		<3.4	U		0.46	J		<2.2	U		<3.4	U	
		VMP-4-12-041812	4/18/2012	<0.035	J	U	<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.03		J	0.0042	J		<0.0049	U		<0.0077	U	
		VMP-4-12-072312	7/23/2012	<0.17	U		<0.022	U		<0.022	U		<0.022	U		<0.07	U		0.06			0.09			<0.024	U		<0.037	U	
		VMP-4-12-101812	10/18/2012	0.0064	J		<0.007	U		<0.0069	U		<0.0069	U		<0.022	U		0.019			0.019			0.0012	J		<0.012	U	
		VMP-4-12-101812-Dup	10/18/2012	<0.054	U		<0.0072	U		<0.007	U		<0.007	U		<0.022	U		0.012			0.023			0.0019	J		<0.012	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<5	U		<6.7	U		<6.6	U		<6.6	U		<21	U		<11	U		960		J	230		J	<11	U	
		VMP-4-23.5-112310	11/23/2010	<50	U		<67	U		<66	U		<66	U		<210	U		<110	U		630			58	J		<110	U	
		VMP-4-23.5-021411	2/14/2011	<1.8	U		<2.4	U		<2.4	U		<2.4	U		<7.6	U		<4	U		93		J	1.2	J	J	<4.1	U	
		VMP-4-23.5-042011	4/20/2011	<120	U		<160	U		<150	U		<150	U		<480	U		65	J		530			69	J		<260	U	
		VMP-4-23.5-042011-DUP	4/20/2011	53	J		<160	U		<150	U		<150	U		<480	U		<250	U		490			69	J		<260	U	
		VMP-4-23.5-080611	8/6/2011	<4.9	U		<6.5	U		<6.4	U		<6.4	U		<20	U		<10	U		180			21			<11	U	
		VMP-4-23.5-110911	11/9/2011	<14	U		<19	U		<19	U		<19	U		<60	U		<32	U		4	J		<21	U		<32	U	
		VMP-4-23.5-013012	1/30/2012	<31	U		<41	U		<41	U		<41	U		<130	U		<67	U		140		J	<44	U		<68	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<22	U		<29	U		<28	U		<28	U		<90	U		<47	U		52		J	<31	U		<48	U	
		VMP-4-23.5-041912	4/19/2012	<6.8	U		<9	U		<8.9	U		<8.9	U		<28	U		<15	U		16			<9.6	U		<15	U	
		VMP-4-23.5-072312	7/23/2012	<3.3	U		<4.3	U		<4.3	U		<4.3	U		<14	U		<7.1	U		110			15			<7.2	U	
		VMP-4-23.5-101812	10/18/2012	<3.6	U		<4.8	U		<4.7	U		<4.7	U		<15	U		<7.8	U		3.9	J		<5.1	U		<7.9	U	
	39 ft	VMP-4-39-042111	4/21/2011	<140	U		<190	U		<190	U		<190	U		<600	U		<320	U		420			51	J		<320	U	
		VMP-4-39-041912	4/19/2012	<3.5	U		<4.6	U		<4.6	U		<4.6	U		<14	U		<7.6	U		120			12			<7.7	U	
		VMP-4-39-072312	7/23/2012	<5.2	U		<7	U		<6.8	U		<6.8	U		<22	U		<11	U		170		J	18		J	<12	U	
		VMP-4-39-101812	10/18/2012	<66	U		<88	U		<86	U		<86	U		<270	U		<140	U		110			<93	U		<140	U	
		VMP-4-39-101812-Dup	10/18/2012	<60	U		<80	U		<78	U		<78	U		<250	U		<130	U		100			<85	U		<130	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride) 5.6			1,2-Dichloropropane 0.062			cis-1,3-Dichloropropene 0.9			trans-1,3-Dichloropropene 0.9			1,4-Dioxane 0.22			Ethanol			Ethylbenzene 1400			4-Ethyltoluene			Freon 113		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<9.2	U		<12	U		<12	U		<12	U		<38	U		<20	U		<11	U		20			<20	U	
		VMP-5-5-112210	11/22/2010	<2.2	U		<3	U		<2.9	U		<2.9	U		<9.3	U		<4.9	U		<2.8	U		<3.2	U		<4.9	U	
		VMP-5-5-021611	2/16/2011	<0.014	U		<0.019	U		<0.019	U		<0.019	U		<0.059	U		<0.031	U		0.0041	J	J	<0.02	U		<0.032	U	
		VMP-5-5-042111	4/21/2011	<0.046	U		<0.061	U		<0.06	U		<0.06	U		<0.19	U		<0.099	U		<0.057	U		<0.065	U		<0.1	U	
		VMP-5-5-080511	8/5/2011	0.0075			<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.073			0.0032	J		0.0022	J		<0.0096	U	
		VMP-5-5-111111	11/11/2011	0.0023	J		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.014			0.002	J		0.0024	J		<0.0071	U	
		VMP-5-5-013012	1/30/2012	0.042			<0.043	U		<0.042	U		<0.042	U		<0.13	U		0.088			0.036	J		0.02	J		<0.072	U	
		VMP-5-5-041112	4/11/2012	0.0011	J		0.0014	J		<0.0042	U		<0.0042	U		0.0029	J		0.018			0.0041			0.0019	J		0.0018	J	
		VMP-5-5-071312	7/13/2012	<0.035	J	U	<0.0047	U		<0.0046	U		<0.0046	J	U	<0.015	U		0.035			<0.0044	J	U	0.0023	J		<0.0078	U	
		VMP-5-5-101212	10/12/2012	<0.044	J	U	<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.0034	J		<0.0055	U		<0.0062	U		<0.0096	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<4.6	U		<6.1	U		<6	U		<6	U		<19	U		<9.9	U		<5.7	U		9.2			<10	U	
		VMP-5-12.5-112310	11/23/2010	<0.23	U		<0.3	U		<0.3	U		<0.3	U		<0.95	U		<0.5	U		0.1	J		<0.32	U		<0.5	U	
		VMP-5-12.5-021611	2/16/2011	<0.69	U		<0.92	U		<0.9	U		<0.9	U		<2.9	U		<1.5	U		<0.86	U		<0.98	U		<1.5	U	
		VMP-5-12.5-042111	4/21/2011	<0.049	U		<0.065	U		<0.064	U		<0.064	U		<0.2	U		<0.11	U		<0.061	U		<0.069	U		<0.11	U	
		VMP-5-12.5-080611	8/6/2011	<4.3	U		<5.7	U		<5.6	U		<5.6	U		<18	U		<9.3	U		<5.4	U		<6.1	U		<9.5	U	
		VMP-5-12.5-111111	11/11/2011	0.0024	J		<0.0041	U		<0.004	U		<0.004	U		<0.013	U		0.011			0.001	J		0.00067	J		<0.0067	U	
		VMP-5-12.5-013012	1/30/2012	<0.01	U		<0.013	U		<0.013	U		<0.013	U		<0.041	U		0.032			0.0032	J		0.0024	J		<0.022	U	
		VMP-5-12.5-041112	4/11/2012	<0.03	U		0.00088	J		<0.004	U		<0.004	U		<0.013	U		0.043			0.0026	J		0.0015	J		<0.0067	U	
		VMP-5-12.5-071212	7/12/2012	<0.036	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.011			0.0043			0.012			<0.0079	U	
		VMP-5-12.5-101112	10/11/2012	0.0047	J		<0.011	U		<0.011	U		<0.011	U		<0.035	UJ	UJ	0.015	J	J	<0.011	U		<0.012	U		<0.019	U	
	31 ft	VMP-5-31-090910	9/9/2010	<19	U		<25	U		<25	U		<25	U		<79	U		<41	U		<24	U		<27	U		<42	U	
		VMP-5-31-112310	11/23/2010	<12	U		<16	U		<16	U		<16	U		<50	U		<26	U		<15	U		<17	U		<26	U	
		VMP-5-31-021611	2/16/2011	<4.8	U		<6.4	U		<6.3	U		<6.3	U		<20	U		<10	U		<6	U		<6.8	U		<10	U	
		VMP-5-31-042111	4/21/2011	<72	U		<95	U		<93	U		<93	U		<300	U		<160	U		<89	U		<100	U		<160	U	
		VMP-5-31-080611	8/6/2011	<40	U		<54	U		<53	U		<53	U		<170	U		<87	U		<50	U		<57	U		<89	U	
		VMP-5-31-111111	11/11/2011	<20	U		<27	U		<26	U		<26	U		<84	U		<44	U		<25	U		<29	U		<45	U	
		VMP-5-31-013012	1/30/2012	3	J		<14	U		<14	U		<14	U		<43	U		<22	U		<13	U		<15	U		<23	U	
		VMP-5-31-041112	4/11/2012	<0.033	U		<0.044	U		<0.043	U		<0.043	U		<0.14	U		<0.072	U		<0.041	U		<0.047	U		<0.073	U	
		VMP-5-31-071212	7/12/2012	0.0013	J		<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.021			<0.0044	U		<0.0049	J	U	<0.0077	U	
		VMP-5-31-101112	10/11/2012	0.0024	J		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	UJ	UJ	0.0055	J	J	<0.0061	U		<0.0069	U		<0.011	U	
	40 ft	VMP-5-40-042111	4/21/2011	<75	U		<100	U		<98	U		<98	U		<310	U		<160	U		<94	U		<100	U		<160	U	
		VMP-5-40-013012	1/30/2012	6.2	J		<29	U		<28	U		<28	U		<90	U		<47	U		<27	U		<31	U		<48	U	
		VMP-5-40-041212	4/12/2012	<0.032	U		<0.043	U		<0.042	U		<0.042	U		<0.13	U		<0.07	U		0.0073	J		0.0078	J		<0.072	U	
		VMP-5-40-071212	7/12/2012	<0.35	U		<0.046	U		<0.046	U		<0.046	U		<0.14	U		<0.076	U		<0.044	U		<0.049	U		<0.077	U	
		VMP-5-40-101112	10/11/2012	0.0049	J		<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U	UJ	0.0075	J	J	<0.0064	U		<0.0073	U		<0.011	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<0.76	U		<1	U		<1	U		<1	U		<3.2	U		<1.6	U		<0.96	U		1	J		<1.7	U	
		VMP-6-5-111610	11/16/2010	<4.8	U		<6.4	U		<6.3	U		<6.3	U		<20	U		<10	U		5.5	J		<6.8	U		<10	U	
		VMP-6-5-020711	2/7/2011	<0.0041	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.017	U		0.0051	J		0.013			0.0071			<0.0091	U	
		VMP-6-5-040811	4/8/2011	0.0043	J		<0.012	U		<0.012	U		<0.012	U		<0.037	U		0.02			<0.011	U		<0.013	U		<0.02	U	
		VMP-6-5-080411	8/4/2011	<0.23	U		<0.31	U		<0.3	U		<0.3	U		<0.96	U		<0.5	U		0.1	J		<0.33	U		<0.51	U	
		VMP-6-5-110911	11/9/2011	<0.0028	J	U	<0.0037	U		<0.0036	U		<0.0036	U		<0.012	U		0.034			0.075			0.025			<0.0062	U	
		VMP-6-5-013112	1/31/2012	0.03	J		<0.044	U		<0.043	U		<0.043	U		<0.14	U		0.076			0.0078	J		0.0065	J		<0.073	U	
		VMP-6-5-041212	4/12/2012	<0.035	J	U	<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.0053	J		0.0019	J		<0.0049	U		<0.0077	U	
		VMP-6-5-071612	7/16/2012	<0.035	J	U	<0.0046	U		<0.0046	U		<0.0046	J	U	<0.014	U		0.012			<0.0044	J	U	0.0019	J		<0.0077	U	
		VMP-6-5-101012	10/10/2012	<0.048	J	U	<0.0064	U		<0.0063	U		<0.0063	U		<0.02	UJ	UJ	0.0028	J	J	<0.006	U		<0.0068	U		<0.01	U	
	10 ft	VMP-6-10-090810	9/8/2010	<0.83	U		<1.1	U		<1.1	U		<1.1	U		<3.4	U		<1.8	U		0.68	J	J	0.9	J	J	<1.8	U	
		VMP-6-10-111710	11/17/2010	<0.0045	U		<0.006	U		<0.0058	U		<0.0058	U		<0.018	U		0.0037	J		0.0014	J		<0.0063	U		<0.0099	U	
		VMP-6-10-020711	2/7/2011	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		<0.0095	U		<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-6-10-040811	4/8/2011	0.12			<0.14	U		<0.14	U		<0.14	U		<0.44	U		0.12	J		0.028	J		<0.15	U		<0.23	U	
		VMP-6-10-080411	8/4/2011	<0.74	U		<0.99	U		<0.97	U		<0.97	U		<3.1	U		<1.6	U		0.18	J		<1	U		<1.6	U	
		VMP-6-10-111011	11/10/2011	<0.0029	J	U	<0.0039	U		<0.0038	U		<0.0038	U		<0.012	U		0.024			<0.0036	U		<0.0041	U		<0.0064	U	
		VMP-6-10-013112	1/31/2012	<0.52	U		<0.69	U		<0.68	U		<0.68	U		<2.1	U		<1.1	U		<0.65	U		<0.73	U		<1.1	U	
		VMP-6-10-041212	4/12/2012	<0.034	J	U	<0.0045	U		<0.0044	U		<0.0044	J	U	<0.014	U		0.011			0.0024	J		0.0015	J		<0.0075	U	
		VMP-6-10-071612	7/16/2012	<0.046	J	U	<0.0061	U		<0.006	J	U	<0.006	J	U	<0.019	U		0.0094	J		<0.0057	J	U	0.0015	J		<0.01	U	
		VMP-6-10-101112	10/11/2012	<0.05	J	U	<0.0067	U		<0.0066	U		<0.0066	U		<0.021	UJ	UJ	0.0037	J	J	<0.0063	U		<0.0071	U		<0.011	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<5.6	U		<7.4	U		<7.3	U		<7.3	U		<23	U		<12	U		160			16			<12	U	
		VMP-6-31.5-111710	11/17/2010	<8.8	U		<12	U		<11	U		<11	U		<36	U		<19	U		150			13			<19	U	
		VMP-6-31.5-020711	2/7/2011	<8.4	U		<11	U		<11	U		<11	U		<35	U		<18	U		180			23			<18	U	
		VMP-6-31.5-041111	4/11/2011	5.8	J		<8.7	U		<8.5	U		<8.5	U		<27	U		3.2	J		84			9.4			<14	U	
		VMP-6-31.5-080411	8/4/2011	<4.8	U		<6.4	U		<6.3	U		<6.3	U		<20	U		<10	U		20			<6.8	U		<11	U	
		VMP-6-31.5-111011	11/10/2011	<7.4	U		<9.9	U		<9.7	U		<9.7	U		<31	U		6.2	J		2.7	J		<10	U		<16	U	
		VMP-6-31.5-013112	1/31/2012	<3	U		<4	U		<3.9	U		<3.9	U		<12	U		<6.4	U		8.3		J	<4.2	U		<6.6	U	
		VMP-6-31.5-041212	4/12/2012	<0.4	U		<0.53	U		<0.52	U		<0.52	U		<1.6	U		0.29	J		0.38	J		<0.56	U		<0.88	U	
		VMP-6-31.5-071612	7/16/2012	0.0024	J		<0.0084	U		<0.0082	U		<0.0082	U		<0.026	U		0.043			<0.0078	J	U	0.0058	J		<0.014	U	
		VMP-6-31.5-101112	10/11/2012	0.0028	J		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	UJ	UJ	0.0073	J	J	<0.0061	U		<0.0069	U		<0.011	U	
	39 ft	VMP-6-39-041111	4/11/2011	3.7	J		<10	U		<10	U		<10	U		<32	U		<17	U		120			14			<17	U	
		VMP-6-39-013112	1/31/2012	<3	U		<4	U		<3.9	U		<3.9	U		<12	U		<6.4	U		19		J	<4.2	U		<6.6	U	
		VMP-6-39-041212	4/12/2012	<0.29	U		<0.39	U		<0.38	U		<0.38	U		<1.2	U		<0.63	U		7.1			<0.41	U		<0.64	U	
		VMP-6-39-071612	7/16/2012	<0.14	U		<0.018	U		<0.018	U		<0.018	U		<0.057	U		0.019	J		0.0038	J		<0.019	U		<0.03	U	
		VMP-6-39-071612-Dup	7/16/2012	0.0026	J		<0.018	U		<0.018	U		<0.018	U		<0.057	U		0.022	J		<0.017	U		<0.02	U		<0.03	U	
		VMP-6-39-101112	10/11/2012	0.0032	J		<0.012	U		<0.012	U		<0.012	U		<0.039	UJ	UJ	<0.02	U	UJ	<0.012	U		<0.013	U		<0.021	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride) 5.6			1,2-Dichloropropane 0.062			cis-1,3-Dichloropropene 0.9			trans-1,3-Dichloropropene 0.9			1,4-Dioxane 0.22			Ethanol			Ethylbenzene 1400			4-Ethyltoluene			Freon 113		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	0.0023	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.007	J		<0.0057	U		<0.0065	U		<0.01	U	
		VMP-7-5-111910	11/19/2010	<0.0041	U		<0.0055	U		<0.0054	U		<0.0054	U		0.0093	J		0.0031	J		0.00077	J		<0.0058	U		<0.0091	U	
		VMP-7-5-020711	2/7/2011	0.0013	J		<0.006	U		<0.0058	U		<0.0058	U		<0.018	U		0.0087	J		<0.0056	U		<0.0063	U		<0.0099	U	
		VMP-7-5-040711	4/7/2011	<0.0063	J	U	<0.0084	U		<0.0083	U		<0.0083	U		<0.026	U		0.0034	J		<0.0079	U		<0.0089	U		<0.014	U	
		VMP-7-5-080211	8/2/2011	<0.63	U		<0.83	U		<0.82	U		<0.82	U		<2.6	U		<1.4	U		<0.78	U		<0.89	U		<1.4	U	
		VMP-7-5-111011	11/10/2011	0.0024	J	J	<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.0096			<0.0037	U		<0.0042	U		<0.0066	U	
		VMP-7-5-111011-DUP	11/10/2011	0.01		J	<0.0037	U		<0.0036	U		<0.0036	U		<0.012	U		0.018			<0.0035	U		<0.004	U		<0.0062	U	
		VMP-7-5-013112	1/31/2012	0.003			<0.004	U		<0.004	U		<0.004	J	U	<0.013	U		0.039			0.0012	J		<0.0043	J	U	<0.0067	U	
		VMP-7-5-041212	4/12/2012	<0.033	J	U	<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.036			0.0046			0.0025	J		<0.0073	U	
		VMP-7-5-073112	7/31/2012	<0.085	J	U	<0.011	U		<0.011	U		<0.011	U		<0.035	U		0.047			0.0038	J		<0.012	U		<0.019	U	
		VMP-7-5-101012	10/10/2012	0.0034	J		<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.004	J		<0.0064	U		<0.0073	U		<0.011	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.1	U		<0.13	U		<0.13	U		<0.13	U		<0.42	U		<0.22	U		<0.12	U		<0.14	U		<0.22	U	
		VMP-7-13.5-111910	11/19/2010	0.91		J	<0.93	U		<0.91	U		<0.91	U		<2.9	U		<1.5	U		<0.87	U		<0.99	U		<1.5	U	
		VMP-7-13.5-020711	2/7/2011	<0.0043	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.018	U		<0.0093	U		<0.0054	U		<0.0061	U		<0.0095	U	
		VMP-7-13.5-040711	4/7/2011	<0.0075	J	U	<0.01	U		<0.0098	U		<0.0098	U		<0.031	U		<0.016	U		<0.0094	U		<0.011	U		<0.016	U	
		VMP-7-13.5-080311	8/3/2011	<0.84	U		<1.1	U		<1.1	U		<1.1	U		<3.5	U		<1.8	U		<1	U		<1.2	U		<1.8	U	
		VMP-7-13.5-111011	11/10/2011	0.0031			<0.0036	U		<0.0036	U		<0.0036	U		<0.011	U		0.017			0.013			0.0037	J		<0.006	U	
		VMP-7-13.5-013112	1/31/2012	<0.039	U		<0.052	U		<0.051	U		<0.051	U		<0.16	U		0.094		J	<0.049	U		<0.055	U		<0.086	U	
		VMP-7-13.5-013112-DUP	1/31/2012	<0.04	U		<0.053	U		<0.052	U		<0.052	U		<0.16	U		0.12		J	<0.05	U		<0.056	U		<0.088	U	
		VMP-7-13.5-041212	4/12/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.044			0.0026	J		0.0016	J		<0.007	U	
		VMP-7-13.5-041212-DUP	4/12/2012	<0.034	J	U	<0.0044	U		<0.0044	U		<0.0044	U		<0.014	U		0.033			0.0028	J		0.0015	J		<0.0074	U	
		VMP-7-13.5-072012	7/20/2012	0.0013	J		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.024			0.003	J		0.001	J		<0.0072	U	
		VMP-7-13.5-101012	10/10/2012	0.0041	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.011			<0.006	U		<0.0068	U		<0.01	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<1.4	U		<1.9	U		<1.9	U		<1.9	U		<5.9	U		<3.1	U		<1.8	U		<2	U		<3.2	U	
		VMP-7-29.5-111910	11/19/2010	<2.2	U		<2.9	U		<2.8	U		<2.8	U		<8.9	U		<4.7	U		<2.7	U		<3	U		<4.8	U	
		VMP-7-29.5-020711	2/7/2011	<2.2	U		<3	U		<2.9	U		<2.9	U		<9.3	U		<4.9	U		<2.8	U		0.77	J		<4.9	U	
		VMP-7-29.5-040711	4/7/2011	<0.54	U		<0.72	U		<0.71	U		<0.71	U		<2.2	U		<1.2	U		<0.68	U		0.23	J	J	<1.2	U	
		VMP-7-29.5-080311	8/3/2011	<1.3	U		<1.7	U		<1.7	U		<1.7	U		<5.3	U		<2.8	U		<1.6	U		<1.8	U		<2.8	U	
		VMP-7-29.5-111111	11/11/2011	<2.5	U		<3.4	U		<3.3	U		<3.3	U		<10	U		3.3	J		2.7	J		1.6	J		<5.6	U	
		VMP-7-29.5-020112	2/1/2012	<0.51	U		<0.67	U		<0.66	U		<0.66	U		<2.1	U		<1.1	U		<0.63	U		<0.72	U		<1.1	U	
		VMP-7-29.5-041312	4/13/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.021			0.0017	J		0.0051			<0.007	U	
		VMP-7-29.5-072012	7/20/2012	0.0015	J		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.025			0.0031	J		0.00088	J		<0.0072	U	
		VMP-7-29.5-072012-Dup	7/20/2012	0.0012	J		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.016			0.003	J		0.00093	J		<0.0072	U	
		VMP-7-29.5-101012	10/10/2012	0.0023	J		<0.0067	U		<0.0066	U		0.0017	J		<0.021	UJ	UJ	0.0076	J	J	<0.0063	U		<0.0071	U		<0.011	U	
	38 ft	VMP-7-38-020711	2/7/2011	<3	U		<4	U		<3.9	U		<3.9	U		<12	U		<6.5	U		<3.8	U		<4.2	U		<6.6	U	
		VMP-7-38-040711	4/7/2011	<0.76	U		<1	U		<1	U		<1	U		<3.2	U		<1.6	U		<0.96	U		<1.1	U		<1.7	U	
		VMP-7-38-020112	2/1/2012	<0.73	U		<0.97	U		<0.95	U		<0.95	U		<3	U		<1.6	U		<0.91	U		<1	U		<1.6	U	
		VMP-7-38-042512	4/25/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.026			0.0051			0.002	J		<0.007	U	
		VMP-7-38-042512-Dup	4/25/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.028			0.0036	J		<0.0045	U		<0.007	U	
		VMP-7-38-101112	10/11/2012	0.002	J		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	UJ	UJ	0.006	J	J	<0.0058	U		<0.0066	U		<0.01	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.0026	J		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		0.0014	J		0.0019	J	
		VMP-8-5-111810	11/17/2010	0.00071	J		<0.0054	U		<0.0053	U		<0.0053	U		<0.017	U		0.0073	J		<0.005	J	U	<0.0057	U		0.0017	J	
		VMP-8-5-021011	2/10/2011	<0.0043	U		<0.0057	U		<0.0056	U		<0.0056	U		<0.018	U		<0.0093	U		<0.0054	U		<0.0061	U		<0.0095	U	
		VMP-8-5-040711	4/7/2011	<0.0048	U		<0.0064	U		<0.0063	U		<0.0063	U		0.0057	J		<0.01	U		<0.006	U		<0.0068	U		<0.01	U	
		VMP-8-5-072711	7/27/2011	<0.0051	U		<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.037			0.0026	J		0.0033	J		<0.011	U	
		VMP-8-5-110311	11/3/2011	<0.003	J	U	<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.052			0.0033	J		0.00052	J		<0.0066	U	
		VMP-8-5-012312	1/23/2012	<0.0037	J	U	<0.0049	U		<0.0048	U		<0.0048	J	U	<0.015	U		0.023			0.00052	J		0.00067	J		<0.0081	U	
		VMP-8-5-041012	4/10/2012	0.0012	J		0.0013	J		<0.0043	U		0.0044			<0.014	U		<0.0072	U		0.0034	J		0.0014	J		<0.0073	U	
		VMP-8-5-071312	7/13/2012	0.0015	J		0.0017	J		<0.0036	U		<0.0036	U		<0.012	U		0.0086			<0.0035	U		<0.004	J	U	<0.0062	U	
		VMP-8-5-073112	7/31/2012	<0.036	J	U	<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.061			0.0044			0.00067	J		<0.0079	U	
		VMP-8-5-100412	10/4/2012	<0.048	J	U	<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		<0.01	U		<0.006	U		<0.0068	U		<0.01	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.046	J	U	<0.0061	U		<0.006	U		<0.006	U		<0.019	U		<0.0099	U		<0.0057	U		<0.0065	U		<0.01	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	0.005			<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.016			<0.0052	U		0.0011	J		0.0011	J	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	0.0013	J		0.00099	J		<0.0056	U		<0.0056	U		<0.018	U		0.013			<0.0054	U		<0.0061	U		0.001	J	
		VMP-8-9.5-111810	11/17/2010	<0.0042	U		<0.0056	U		<0.0055	U		<0.0055	U		0.0021	J		0.01			<0.0052	J	U	<0.0059	U		0.0018	J	
		VMP-8-9.5-021011	2/10/2011	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.0028	J		<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-8-9.5-040711	4/7/2011	0.00097	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0074	J		<0.006	U		<0.0068	U		<0.01	U	
		VMP-8-9.5-072711	7/27/2011	0.0065			<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.082			0.0028	J		0.0032	J		<0.0082	U	
		VMP-8-9.5-110311	11/3/2011	<0.0029	J	U	<0.0039	U		<0.0038	U		<0.0038	U		0.0045	J		0.029			0.0044			0.0011	J		<0.0064	U	
		VMP-8-9.5-012312	1/23/2012	<0.0035	J	U	<0.0047	U		<0.0046	U		<0.0046	U		<0.015	U		0.012			0.0014	J		0.00079	J		<0.0078	U	
		VMP-8-9.5-041012	4/10/2012	0.0014	J		<0.0044	U		<0.0043	U		0.0065			<0.014	U		<0.0072	U		0.00077	J		<0.0047	U		<0.0073	U	
		VMP-8-9.5-071312	7/13/2012	<0.032	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.0025	J		<0.004	U		<0.0046	U		<0.0072	U	
		VMP-8-9.5-071312-Dup	7/13/2012	0.001	J		<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		<0.0067	U		<0.0039	U		<0.0044	U		<0.0068	U	
		VMP-8-9.5-100412	10/4/2012	0.0046	J		<0.007	U		<0.0069	U		<0.0069	U		<0.022	U		<0.011	U		0.0024	J		<0.0074	U		<0.012	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	0.0015	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.0069	J		<0.0057	U		<0.0065	U		0.0014	J	
		VMP-8-23.5-111910	11/19/2010	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.0076	J		0.0015	J		<0.0062	U		<0.0096	U	
		VMP-8-23.5-021011	2/10/2011	<0.0047	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		<0.0066	U		<0.01	U	
		VMP-8-23.5-040711	4/7/2011	0.0066			<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.0075	J		0.00066	J		<0.0062	U		<0.0096	U	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0021	J		<0.0092	U		<0.0091	U		<0.0091	U		<0.029	U		0.0073	J		<0.0087	U		<0.0098	U		<0.015	U	
		VMP-8-23.5-081011	8/10/2011	0.0021	J		<0.0061	U		<0.006	U		<0.006	J	U	<0.019	U		0.052			0.0023	J		<0.0065	J	U	<0.01	U	
		VMP-8-23.5-110611	11/6/2011	0.0021	J		<0.0044	U		<0.0043	U		<0.0043	U		0.0013	J		0.027			0.001	J		0.0012	J		<0.0073	U	
		VMP-8-23.5-012312	1/23/2012	<0.0037	J	U	<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.016			0.00079	J		0.00098	J		<0.0081	U	
		VMP-8-23.5-041012	4/10/2012	0.00077	J		0.0022	J		<0.0042	U		0.0071			<0.013	U		<0.007	U		0.0015	J		0.00077	J		<0.0072	U	
		VMP-8-23.5-071312	7/13/2012	<0.036	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.0046	J		<0.0045	U		<0.0051	U		<0.0079	U	
		VMP-8-23.5-100412	10/4/2012	0.0026	J		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.0076	J		<0.0063	U		<0.0071	U		<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	0.0072			<0.0053	U		<0.0052	U		<0.0052	U		0.008	J		0.015			0.00048	J		<0.0056	U		<0.0087	U	
		VMP-9-5-111910	11/19/2010	<0.0041	J	U	<0.0055	U		<0.0054	U		<0.0054	U		<0.017	U		0.0071	J		0.001	J		<0.0058	U		<0.0091	U	
		VMP-9-5-020811	2/8/2011	0.0013	J		<0.0051	U		<0.005	U		<0.005	U		<0.016	U		<0.0083	U		<0.0048	U		<0.0054	U		<0.0084	U	
		VMP-9-5-040611	4/6/2011	0.011			<0.014	U		<0.014	U		<0.014	U		<0.044	U		0.02	J		<0.013	U		<0.015	U		<0.023	U	
		VMP-9-5-080211	8/2/2011	<0.2	U		<0.27	U		<0.27	U		<0.27	U		<0.85	U		<0.44	U		<0.26	U		<0.29	U		<0.45	U	
		VMP-9-5-110411	11/4/2011	0.0041			<0.004	U		<0.004	U		<0.004	J	U	0.0018	J		0.012			<0.0038	U		<0.0043	J	U	<0.0067	U	
		VMP-9-5-012612	1/26/2012	<0.0026	J	U	<0.0034	U		<0.0034	U		<0.0034	J	U	<0.011	U		0.0061			<0.0032	J	U	0.00052	J		<0.0057	U	
		VMP-9-5-041112	4/11/2012	0.00082	J		0.0011	J		<0.0041	U		<0.0041	U		<0.013	U		<0.0067	U		0.0042			0.0011	J		<0.0068	U	
		VMP-9-5-071312	7/13/2012	0.0018	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.12			0.0023	J		<0.0047	J	U	<0.0073	U	
		VMP-9-5-101012	10/10/2012	0.0029	J		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	UJ	UJ	0.0025	J	J	<0.0063	U		<0.0071	U		<0.011	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.089	U		<0.12	U		<0.12	U		<0.12	U		<0.37	U		<0.19	U		<0.11	U		<0.13	U		<0.2	U	
		VMP-9-11.5-111910	11/19/2010	0.32			<0.34	U		<0.34	U		<0.34	U		<1.1	U		<0.56	U		<0.32	U		<0.37	U		<0.57	U	
		VMP-9-11.5-020911	2/9/2011	<0.0047	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		0.0059	J		<0.0058	U		<0.0066	U		<0.01	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0036	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.009			<0.0045	U		<0.0051	U		<0.008	U	
		VMP-9-11.5-040611	4/6/2011	0.0069	J		<0.018	U		<0.018	U		<0.018	U		<0.057	U		0.017	J		<0.017	U		<0.019	U		<0.03	U	
		VMP-9-11.5-080211	8/2/2011	<0.3	U		<0.41	U		<0.4	U		<0.4	U		<1.3	U		<0.66	U		<0.38	U		<0.43	U		<0.67	U	
		VMP-9-11.5-110411	11/4/2011	<0.003	J	U	<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.014			<0.0038	U		<0.0043	J	U	<0.0067	U	
		VMP-9-11.5-012612	1/26/2012	<0.0027	J	U	<0.0036	U		<0.0035	J	U	<0.0035	J	U	<0.011	U		0.026			<0.0034	J	U	<0.0038	U		<0.0059	U	
		VMP-9-11.5-041112	4/11/2012	0.0012	J		0.00078	J		<0.0042	U		0.00098	J		<0.013	U		<0.0069	U		<0.004	U		<0.0045	U		<0.007	U	
		VMP-9-11.5-071312	7/13/2012	<0.036	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.15			0.0037	J		<0.0051	J	U	<0.0079	U	
		VMP-9-11.5-101012	10/10/2012	0.0022	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	UJ	UJ	0.011		J	0.0011	J		<0.0068	U		<0.01	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<0.7	U		<0.93	U		<0.91	U		<0.91	U		<2.9	U		<1.5	U		<0.87	U		<0.99	U		<1.5	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<0.75	U		<1	U		<0.98	U		<0.98	U		<3.1	U		<1.6	U		<0.94	U		<1.1	U		<1.6	U	
		VMP-9-25.5-111910	11/19/2010	0.44	J		<1.1	U		<1	U		<1	U		<3.3	U		<1.7	U		<1	U		<1.1	U		<1.8	U	
		VMP-9-25.5-020911	2/9/2011	<0.44	U		<0.58	U		<0.57	U		<0.57	U		<1.8	U		<0.95	U		<0.55	U		<0.62	U		<0.96	U	
		VMP-9-25.5-040811	4/8/2011	0.13	J		<0.3	U		<0.29	U		<0.29	U		<0.92	U		0.29	J		<0.28	U		<0.31	U		<0.49	U	
		VMP-9-25.5-080211	8/2/2011	<0.49	U		<0.65	U		<0.64	U		<0.64	U		<2	U		<1.1	U		<0.61	U		<0.69	U		<1.1	U	
		VMP-9-25.5-110711	11/7/2011	0.53			<0.58	U		<0.56	U		<0.56	U		<1.8	U		0.49	J		<0.54	U		<0.61	U		<0.95	U	
		VMP-9-25.5-110711-DUP	11/7/2011	0.58			<0.5	U		<0.49	U		<0.49	U		<1.5	U		0.56	J		<0.47	U		<0.53	U		<0.82	U	
		VMP-9-25.5-012612	1/26/2012	<0.11	U		<0.15	U		<0.15	U		<0.15	U		<0.46	U		<0.24	U		<0.14	U		<0.16	U		<0.25	U	
		VMP-9-25.5-041112	4/11/2012	<0.032	U		0.0013	J		<0.0042	U		0.0011	J		<0.013	U		<0.0069	U		0.0049			0.0013	J		<0.007	U	
		VMP-9-25.5-071312	7/13/2012	0.0027	J		<0.0046	U		<0.0045	U		<0.0045	J	U	<0.014	U		0.09		J	0.0054			0.004	J		<0.0075	U	
		VMP-9-25.5-071312-Dup	7/13/2012	<0.033	J	U	<0.0044	U		<0.0043	U		<0.0043	J	U	<0.014	U		0.18		J	0.0054			0.0037	J		<0.0073	U	
		VMP-9-25.5-101012	10/10/2012	<0.046	J	U	<0.0061	U		<0.006	U		<0.006	U		<0.019	UJ	UJ	0.0043	J	J	<0.0057	U		<0.0065	U		<0.01	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<0.73	U		<0.96	U		<0.95	U		<0.95	U		<3	U		<1.6	U		<0.91	U		<1	U		<1.6	U	
		VMP-9-38.5-040811	4/8/2011	0.53	J		<1.3	U		<1.3	U		<1.3	U		<4	U		1.4	J		<1.2	U		<1.4	U		<2.1	U	
		VMP-9-38.5-012612	1/26/2012	<0.14	U		<0.19	U		<0.19	U		<0.19	U		<0.6	U		<0.32	U		<0.18	U		<0.21	U		<0.32	U	
		VMP-9-38.5-041112	4/11/2012	0.017	J		0.001	J		<0.0036	U		0.001	J		<0.012	U		0.019			0.0015	J		<0.004	U		<0.0062	U	
		VMP-9-38.5-071312	7/13/2012	<0.037	J	U	<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.19			0.0046	J		0.0036	J		<0.0081	U	
		VMP-9-38.5-101012	10/10/2012	<0.14	U		<0.018	U		<0.018	U		<0.018	U		<0.057	UJ	UJ	<0.03	U	UJ	<0.017	U		<0.019	U		<0.03	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	0.0012	J		<0.006	U		<0.006	U		<0.006	U		<0.021	U		0.011			<0.006	U		<0.007	U		<0.011	U	
		VMP-18-8.5-090710	9/7/2010	<0.0045	U		<0.006	U		<0.0058	U		<0.0058	U		<0.018	U		0.011			<0.0056	J	U	<0.0063	U		0.002	J	
		VMP-18-8.5-111910	11/19/2010	<0.0038	U		<0.005	U		<0.0049	U		<0.0049	U		0.0054	J		0.0017	J		<0.0047	U		<0.0053	U		<0.0083	U	
		VMP-18-8.5-020711	2/7/2011	<0.0041	U		<0.0055	U		<0.0054	U		<0.0054	U		0.0023	J		0.022			0.013			0.0055	J		<0.0091	U	
		VMP-18-8.5-020711-DUP	2/7/2011	<0.004	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.016	U		0.01			0.004	J		0.0016	J		<0.0088	U	
		VMP-18-8.5-040711	4/7/2011	0.0021	J		0.0033	J		<0.0058	U		<0.0058	U		0.0043	J		0.012			<0.0056	U		<0.0063	J	U	<0.0098	U	
		VMP-18-8.5-072811	7/28/2011	<0.0048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.079			0.0023	J		<0.0068	U		<0.01	U	
		VMP-18-8.5-110711	11/7/2011	<0.0031	J	U	<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.021			<0.0039	U		<0.0044	J	U	<0.0068	U	
		VMP-18-8.5-012312	1/23/2012	<0.0034	J	U	<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.012			0.00054	J		<0.0048	U		<0.0074	U	
		VMP-18-8.5-041012	4/10/2012	<0.035	J	U	0.00094	J		<0.0046	U		<0.0046	J	U	<0.014	U		0.014			0.0055			<0.0049	U		<0.0077	U	
		VMP-18-8.5-071212	7/12/2012	0.0066	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.12			0.0028	J		<0.0048	J	U	<0.0075	U	
		VMP-18-8.5-100912	10/9/2012	0.014	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.022			<0.0057	U		<0.0065	U		<0.01	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	0.0011	J		<0.006	U		<0.006	U		<0.006	U		<0.02	U		0.0064	J		<0.005	U		<0.006	U		<0.01	U	
		VMP-19-5-090110	9/1/2010	<0.0045	J	U	<0.006	U		<0.0058	U		<0.0058	U		<0.018	U		0.01			0.0086		J	<0.0063	U		<0.0099	U	U
		VMP-19-5-111510	11/15/2010	0.0012	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.024			0.003	J		<0.0068	U		<0.01	U	
		VMP-19-5-020411	2/4/2011	<0.0042	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.015			0.00074	J		<0.0059	U		<0.0093	U	
		VMP-19-5-040711	4/7/2011	0.00093	J		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		0.0058	J		0.00086	J		<0.0066	U		<0.01	U	
		VMP-19-5-080911	8/9/2011	<0.0051	U		<0.0068	U		<0.0067	U		<0.0067	J	U	<0.021	U		0.047		J	0.0051	J		<0.0073	J	U	<0.011	U	
		VMP-19-5-080911-DUP	8/9/2011	0.0016	J		<0.0065	U		<0.0064	U		<0.0064	J	U	<0.02	U		0.078		J	0.0051	J		<0.0069	U		<0.011	U	
		VMP-19-5-110811	11/8/2011	0.0084			<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.021			<0.0042	U		<0.0048	U		<0.0075	U	
		VMP-19-5-012612	1/26/2012	0.0035			<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.013			0.003	J		<0.0042	U		<0.0066	U	
		VMP-19-5-041012	4/10/2012	<0.034	J	U	0.0011	J		<0.0044	U		<0.0044	J	U	<0.014	U		0.031			0.0031	J		<0.0048	U		<0.0075	U	
		VMP-19-5-071112	7/11/2012	0.0012	J		<0.0052	U		<0.0051	U		<0.0051	U		<0.016	U		0.038			0.0032	J		<0.0055	J	U	<0.0085	U	
		VMP-19-5-100912	10/9/2012	0.0029	J		<0.0068	U		<0.0067	U		<0.0067	J	U	<0.021	U		<0.011	U		<0.0064	U		<0.0073	U		<0.011	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0042	J	U	<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.11	J	J	0.014			0.0028	J		<0.0093	U	
		VMP-20-5-041511	4/15/2011	<0.046	U	UJ	<0.061	U		<0.06	U		<0.06	U		<0.19	U		<0.1	U		<0.058	U		<0.065	U		<0.1	U	
		VMP-20-5-072511	7/25/2011	<0.0049	U		<0.0065	U		<0.0064	U		<0.0064	J	U	0.0052	J		0.018			0.0015	J		<0.0069	U		<0.011	U	
		VMP-20-5-110111	11/1/2011	<0.0028	J	U	<0.0037	U		<0.0036	U		<0.0036	U		<0.012	U		0.033			0.003	J		<0.004	J	U	<0.0062	U	
		VMP-20-5-012312	1/23/2012	<0.013	U		<0.018	U		<0.018	U		<0.018	U		<0.056	U		0.021	J		0.0073	J		<0.019	U		<0.03	U	
		VMP-20-5-041012	4/10/2012	<0.03	J	U	0.00084	J		<0.004	U		<0.004	U		0.0038	J		0.05			0.0011	J		<0.0043	U		<0.0067	U	
		VMP-20-5-071112	7/11/2012	0.0016	J		<0.0054	U		<0.0053	U		<0.0053	U		<0.017	U		0.0061	J		<0.005	U		<0.0057	J	U	<0.0089	U	
		VMP-20-5-073112	7/31/2012	<0.034	J	U	<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.037			0.0027	J		0.00076	J		<0.0075	U	
		VMP-20-5-100412	10/4/2012	<0.05	J	U	<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		<0.011	U		<0.0063	U		<0.0071	U		<0.011	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0042	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.0034	J	J	0.0089			0.0026	J		<0.0093	U	
		VMP-20-10-041511	4/15/2011	0.018	J	J	<0.056	U		<0.055	U		<0.055	U		<0.17	U		0.012	J		<0.052	U		<0.059	U		<0.093	U	
		VMP-20-10-072511	7/25/2011	<0.0045	J	U	<0.006	U		<0.0058	U		<0.0058	J	UJ	<0.018	U		0.013			0.0014	J		0.0023	J		<0.0099	U	
		VMP-20-10-110111	11/1/2011	0.0037			<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.01			<0.0037	U		<0.0042	U		<0.0066	U	
		VMP-20-10-012312	1/23/2012	<0.0031	J	U	<0.0041	U		<0.0041	U		<0.0041	J	U	<0.013	U		0.016			0.0024	J		0.001	J		<0.0068	U	
		VMP-20-10-041012	4/10/2012	<0.03	J	U	0.001	J		<0.0039	U		<0.0039	U		<0.012	U		0.071			0.0015	J		<0.0042	U		<0.0066	U	
		VMP-20-10-071112	7/11/2012	0.0014	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.0053	J		<0.0042	U		<0.0048	J	U	<0.0075	U	
		VMP-20-10-100412	10/4/2012	<0.047	J	U	<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		<0.0066	U		<0.01	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0042	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.017	U		0.0045	J	J	<0.0052	U		<0.0059	U		<0.0092	U	
		VMP-20-25-041511	4/15/2011	<0.048	U	UJ	<0.064	U		<0.063	U		<0.063	U		<0.2	U		<0.1	U		<0.06	U		<0.068	U		<0.1	U	
		VMP-20-25-072611	7/26/2011	<0.32	U		<0.42	U		<0.42	U		<0.42	U	UJ	<1.3	U		<0.69	U		<0.4	U		<0.45	U		<0.7	U	
		VMP-20-25-110511	11/5/2011	0.0017	J		<0.0039	U		<0.0038	U		<0.0038	U		<0.012	U		0.011			0.0011	J		0.0013	J		<0.0064	U	
		VMP-20-25-012312	1/23/2012	<0.0032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.022			0.0006	J		<0.0046	U		<0.0072	U	
		VMP-20-25-041012	4/10/2012	<0.03	J	U	<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.047		J	0.0016	J		0.001	J		<0.0067	U	
		VMP-20-25-041012-Dup	4/10/2012	0.0009	J		<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.03		J	0.0015	J		<0.0044	U		<0.0068	U	
		VMP-20-25-071112	7/11/2012	<0.035	U		<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.017			<0.0044	U		<0.0049	J	U	<0.0077	U	
		VMP-20-25-100412	10/4/2012	<0.051	J	U	<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.011	J		<0.0064	U		<0.0073	U		<0.011	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	1	J		<1.7	U		<1.6	U		<1.6	U		<5.2	U		<2.7	U		<1.6	U		<1.8	U		<2.8	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<1.6	U		<2.2	U		<2.1	U		<2.1	U		<6.7	U		<3.5	U		<2	U		<2.3	U		<3.6	U	
		VMP-21-5-020911-DUP	2/9/2011	<2.8	U		<3.7	U		<3.6	U		<3.6	U		<11	U		<6	U		<3.4	U		<3.9	U		<6.1	U	
		VMP-21-5-041311	4/13/2011	0.00076	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		<0.0099	J	U	0.0099			0.0014	J		<0.01	U	
		VMP-21-5-072511	7/25/2011	<0.0048	J	U	<0.0064	U		<0.0063	U		<0.0063	J	UJ	0.0076	J		0.017			0.0017	J		0.0018	J		<0.01	U	
		VMP-21-5-110111	11/1/2011	<0.004	J	U	<0.0053	U		<0.0052	U		<0.0052	U		<0.016	U		0.019			0.028			0.03			<0.0087	U	
		VMP-21-5-012312	1/23/2012	<0.0034	J	U	<0.0045	U		<0.0044	U		<0.0044	J	U	<0.014	U		0.017			0.00056	J		0.00074	J		<0.0074	U	
		VMP-21-5-012312-DUP	1/23/2012	<0.0031	J	U	<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.0088			0.00066	J		0.00086	J		<0.0068	U	
		VMP-21-5-042412	4/24/2012	<0.064	J	U	<0.0084	U		<0.0083	U		<0.0083	U		<0.026	U		0.04			0.0027	J		<0.009	U		<0.014	U	
		VMP-21-5-071012	7/10/2012	<0.037	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.15			0.036			0.025			<0.0081	U	
		VMP-21-5-100412	10/4/2012	<0.054	J	U	<0.0072	U		<0.007	U		<0.007	U		<0.022	U		0.018			<0.0068	U		<0.0076	J	U	<0.012	U	
	10 ft	VMP-21-10-021011	2/10/2011	<1.4	U		<1.9	U		<1.9	U		<1.9	U		<6	U		<3.2	U		<1.8	U		<2.1	U		<3.2	U	
		VMP-21-10-041311	4/13/2011	0.072	J		<0.24	U		<0.24	U		<0.24	U		<0.76	U		<0.4	U		<0.23	U		<0.26	U		<0.41	U	
		VMP-21-10-072511	7/25/2011	0.0093	J		<0.014	U		<0.013	U		<0.013	J	UJ	<0.042	U		0.085			<0.013	U		<0.014	U		<0.022	U	
		VMP-21-10-110111	11/1/2011	0.0038			<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.025			<0.0037	U		<0.0042	U		<0.0066	U	
		VMP-21-10-012312	1/23/2012	0.0047			<0.0045	U		<0.0044	U		<0.0044	J	U	<0.014	U		0.015			0.00084	J		0.00064	J		<0.0074	U	
		VMP-21-10-040912	4/9/2012	0.017	J		0.0012	J		<0.004	U		<0.004	U		<0.013	U		0.031			0.0041			0.0011	J		<0.0067	U	
		VMP-21-10-071012	7/10/2012	0.0014	J		<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		0.0075			<0.0044	U		<0.0049	U		<0.0077	U	
		VMP-21-10-100412	10/4/2012	<0.049	J	U	<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.025			0.0029	J		<0.0069	J	U	<0.011	U	
	25 ft	VMP-21-25-021011	2/10/2011	<4	U		<5.4	U		<5.3	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U		<8.9	U	
		VMP-21-25-041411	4/14/2011	<14	U	UJ	<19	U		<18	U		<18	U		<59	U		<31	U		<18	U		<20	U		<31	U	
		VMP-21-25-041411-DUP	4/14/2011	<14	U	UJ	<19	U		<18	U		<18	U		<59	U		<31	U		<18	U		<20	U		<31	U	
		VMP-21-25-072611	7/26/2011	<4.6	U		<6.1	U		<6	U		<6	U	UJ	<19	U		<9.9	U		<5.7	U		<6.5	U		<10	U	
		VMP-21-25-110511	11/5/2011	2.4	J		<3.9	U		<3.8	U		<3.8	U		<12	U		2.9	J		<3.6	U		<4.1	U		<6.4	U	
		VMP-21-25-012412	1/24/2012	<0.04	U		<0.054	U		<0.053	U		<0.053	U		<0.17	U		<0.087	J	U	<0.05	U		<0.057	U		<0.089	U	
		VMP-21-25-040912	4/9/2012	<0.032	U		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.018			0.003	J		<0.0045	U		0.0063	J	
		VMP-21-25-071112	7/11/2012	0.0029	J		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.016			<0.004	U		<0.0045	J	U	<0.007	U	
		VMP-21-25-100412	10/4/2012	<0.05	U		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.018			<0.0063	U		<0.0071	U		<0.011	U	
	33 ft	VMP-21-33-021011	2/10/2011	<4	U		<5.4	U		<5.3	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U		<8.9	U	
		VMP-21-33-041411	4/14/2011	<14	U	UJ	<18	U		<18	U		<18	U		<57	U		3.8	J		<17	U		<19	U		<30	U	
		VMP-21-33-110511	11/5/2011	0.54	J		<0.88	U		<0.87	U		<0.87	U		<2.8	U		0.5	J		<0.83	U		<0.94	U		<1.5	U	
		VMP-21-33-012412	1/24/2012	<0.095	U		<0.13	U		<0.12	U		<0.12	U		<0.39	U		<0.21	U		<0.12	U		<0.13	U		<0.21	U	
		VMP-21-33-042412	4/24/2012	<0.032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.013			0.0021	J		0.0014	J		<0.0072	U	
		VMP-21-33-071112	7/11/2012	0.0013	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.0067	J		<0.0042	U		<0.0048	U		<0.0075	U	
		VMP-21-33-100412	10/4/2012	<0.049	J	U	<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.021			0.0028	J		<0.0069	J	U	<0.011	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.089	U		<0.12	U		<0.12	U		<0.12	U		<0.37	U		<0.19	U		<0.11	U		<0.13	U		<0.2	U	
		VMP-22-5-041811	4/18/2011	<0.044	U	UJ	<0.058	U		<0.057	U		<0.057	U		<0.18	U		<0.095	U		<0.055	U		<0.062	U		<0.096	U	
		VMP-22-5-072611	7/26/2011	0.0022	J		<0.0068	U		<0.0067	U		<0.0067	J	UJ	<0.021	U		0.029			0.0022	J		<0.0073	U		<0.011	U	
		VMP-22-5-110111	11/1/2011	<0.0029	J	U	<0.0039	U		<0.0038	U		<0.0038	U		0.07			0.023			0.00096	J		<0.0041	U		<0.0064	U	
		VMP-22-5-012412	1/24/2012	<0.0031	J	U	<0.0041	U		<0.004	U		<0.004	J	U	<0.013	U		0.0094		J	0.0079		J	0.00079	J	J	<0.0068	U	
		VMP-22-5-040912	4/9/2012	0.012	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		<0.0074	U		<0.0042	U		<0.0048	U		0.0016	J	
		VMP-22-5-070912	7/9/2012	<0.038	U		<0.005	U		<0.0049	U		<0.0049	U		<0.016	U		0.0053	J		0.0052			<0.0053	U		<0.0083	U	
		VMP-22-5-100312	10/3/2012	<0.044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.016		J	<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-22-5-100312-Dup	10/3/2012	<0.04	J	U	<0.0053	U		<0.0052	U		<0.0052	U		<0.016	U		0.056		J	<0.005	U		<0.0056	U		<0.0088	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.042	U		<0.056	U		<0.055	U		<0.055	U		<0.18	U		<0.092	U		<0.053	U		<0.06	U		<0.094	U	
		VMP-22-10-041811	4/18/2011	<0.045	U	UJ	<0.06	U		<0.059	U		<0.059	U		<0.19	U		<0.098	U		<0.057	U		<0.064	U		<0.1	U	
		VMP-22-10-072611	7/26/2011	<0.0053	J	U	<0.007	U		<0.0069	U		<0.0069	J	UJ	<0.022	U		0.056			0.0017	J		<0.0074	U		<0.012	U	
		VMP-22-10-072611-DUP	7/26/2011	<0.0062	J	U	<0.0082	U		<0.0081	U		<0.0081	J	UJ	<0.026	U		0.039			0.0017	J		0.0027	J		<0.014	U	
		VMP-22-10-110211	11/2/2011	<0.003	J	U	<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.01			<0.0037	U		<0.0042	U		<0.0066	U	
		VMP-22-10-012412	1/24/2012	<0.0034	J	U	<0.0045	U		<0.0044	U		<0.0044	J	U	<0.014	U		0.023			0.001	J		0.00057	J		<0.0074	U	
		VMP-22-10-040912	4/9/2012	0.011	J		<0.0044	U		<0.0044	U		<0.0044	U		<0.014	U		<0.0073	U		0.0023	J		<0.0047	U		0.0042	J	
		VMP-22-10-070912	7/9/2012	<0.038	U		<0.005	U		<0.0049	U		<0.0049	U		<0.016	U		0.0062	J		<0.0047	U		<0.0053	U		<0.0083	U	
		VMP-22-10-070912-Dup	7/9/2012	<0.037	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.0072	J		<0.0046	U		<0.0052	U		<0.0081	U	
		VMP-22-10-100312	10/3/2012	<0.042	J	U	<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.042			<0.0052	U		<0.0059	U		<0.0093	U	
	18 ft	VMP-22-18-021111	2/11/2011	<0.74	U		<0.98	U		<0.96	U		<0.96	U		<3.1	U		<1.6	U		<0.92	U		<1	U		<1.6	U	
		VMP-22-18-041811	4/18/2011	<3.1	U	UJ	<4.2	U		<4.1	U		<4.1	U		<13	U		<6.8	U		<3.9	U		<4.4	U		<6.9	U	
		VMP-22-18-072611	7/26/2011	<1.6	U		<2.1	U		<2.1	U		<2.1	U	UJ	<6.6	U		<3.5	U		<2	U		<2.3	U		<3.5	U	
		VMP-22-18-110511	11/5/2011	0.0018	J		<0.0042	U		<0.0042	U		<0.0042	U		0.0014	J		0.012			<0.004	U		0.001	J		<0.007	U	
		VMP-22-18-012412	1/24/2012	<0.029	U		<0.039	U		<0.038	U		<0.038	U		<0.12	U		<0.063	U		<0.036	U		<0.041	U		<0.064	U	
		VMP-22-18-040912	4/9/2012	<0.035	U		<0.0046	U		<0.0046	U		<0.0046	U		<0.014	U		<0.0076	U		<0.0044	U		<0.0049	U		<0.0077	U	
		VMP-22-18-070912	7/9/2012	<0.037	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.0036	J		<0.0046	U		<0.0052	U		<0.0081	U	
		VMP-22-18-100412	10/4/2012	<0.05	J	U	<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.0087	J		<0.0063	U		<0.0071	U		<0.011	U	
	38 ft	VMP-22-38-041811	4/18/2011	<9.6	U	UJ	<13	U		<12	U		<12	U		<40	U		<21	U		<12	U		<14	U		<21	U	
		VMP-22-38-012512	1/25/2012	<0.029	U		<0.039	U		<0.038	U		<0.038	U		<0.12	U		<0.063	U		<0.036	U		<0.041	U		<0.064	U	
		VMP-22-38-040912	4/9/2012	<0.034	U		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		<0.0073	U		<0.0042	U		<0.0048	U		0.0032	J	
		VMP-22-38-070912	7/9/2012	0.0012	J		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		0.006	J		<0.0045	U		<0.0051	U		<0.0079	U	
		VMP-22-38-100412	10/4/2012	0.0036	J		<0.007	U		<0.0069	U		0.0026	J		<0.022	U		<0.011	U		<0.0066	U		<0.0074	U		<0.012	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0046	U		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.014			0.003	J		<0.0065	U		<0.01	U	
		VMP-23-5-042111	4/21/2011	<0.04	U		<0.053	U		<0.052	U		<0.052	U		<0.16	U		<0.086	U		<0.05	U		<0.056	U		<0.088	U	
		VMP-23-5-072711	7/27/2011	0.0063			<0.0061	U		<0.006	U		<0.006	U		0.0088	J		0.058			0.0024	J		<0.0065	U		<0.01	U	
		VMP-23-5-110211	11/2/2011	<0.0032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.025			<0.004	U		<0.0046	U		<0.0072	U	
		VMP-23-5-012512	1/25/2012	0.0015	J		<0.0036	U		<0.0036	U		<0.0036	U		<0.011	U		0.013			<0.0034	U		0.0016	J		<0.006	U	
		VMP-23-5-040912	4/9/2012	0.0096	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.01			0.0051			<0.0047	U		<0.0073	U	
		VMP-23-5-070912	7/9/2012	0.0048	J		<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		<0.0064	U		<0.0037	U		0.0023	J		<0.0066	U	
		VMP-23-5-100312	10/3/2012	0.0029	J		<0.0067	U		<0.0066	U		0.013			<0.021	U		0.0065	J		<0.0063	U		<0.0071	U		<0.011	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0047	U		<0.0063	U		<0.0062	U		<0.0062	U		0.0028	J		<0.01	U		0.0058	J		0.0024	J		<0.01	U	
		VMP-23-10-042111	4/21/2011	<0.048	U		<0.064	U		<0.063	U		<0.063	U		<0.2	U		<0.1	U		0.16			0.022	J		<0.1	U	
		VMP-23-10-072711	7/27/2011	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		<0.0095	U		<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-23-10-110211	11/2/2011	<0.0032	U		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.03			0.0013	J		<0.0045	J	U	<0.007	U	
		VMP-23-10-012512	1/25/2012	0.0037			<0.0036	U		<0.0035	U		<0.0035	U		<0.011	U		0.016			0.0038			<0.0038	U		<0.0059	U	
		VMP-23-10-040912	4/9/2012	0.013	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.018			0.0019	J		0.0012	J		<0.0075	U	
		VMP-23-10-040912-Dup	4/9/2012	0.027	J		<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.013			0.002	J		0.001	J		0.0042	J	
		VMP-23-10-070912	7/9/2012	0.0071	J		<0.0036	U		<0.0035	U		<0.0035	U		<0.011	U		0.0068			<0.0034	U		<0.0038	J	U	<0.0059	U	
		VMP-23-10-100312	10/3/2012	0.0038	J		<0.0072	U		<0.007	U		<0.007	U		<0.022	U		<0.012	U		<0.0068	U		<0.0076	U		<0.012	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		<0.0095	U		<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-23-25-042111	4/21/2011	<0.045	U		<0.06	U		<0.058	U		<0.058	U		<0.18	U		<0.097	U		<0.056	U		<0.063	U		<0.099	U	
		VMP-23-25-072711	7/27/2011	<0.005	U		<0.0067	U		<0.0066	U		<0.0066	U		0.0057	J		0.036			0.0027	J		0.003	J		<0.011	U	
		VMP-23-25-110511	11/5/2011	0.0052			<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.016			0.00075	J		0.00094	J		<0.007	U	
		VMP-23-25-012512	1/25/2012	0.0015	J		<0.0038	U		<0.0037	U		<0.0037	U		<0.012	U		0.01			0.0032	J		<0.004	U		<0.0063	U	
		VMP-23-25-040912	4/9/2012	0.018	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.18			0.0081			0.0016	J		0.002	J	
		VMP-23-25-071012	7/10/2012	0.0017	J		<0.0056	U		<0.0055	U		<0.0055	U		<0.018	U		<0.0092	U		<0.0053	U		<0.006	J	U	<0.0094	U	
		VMP-23-25-100312	10/3/2012	0.0039	J		<0.007	U		<0.0069	U		<0.0069	U		<0.022	U		0.006	J		<0.0066	U		<0.0074	U		<0.012	U	
	40 ft	VMP-23-40-071012	7/10/2012	0.0014	J		<0.0048	U		<0.0047	U		<0.0047	U		<0.015	U		<0.0078	U		<0.0045	U		<0.0051	J	U	<0.0079	U	
		VMP-23-40-100312	10/3/2012	0.0035	J		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.011			<0.0061	U		<0.0069	U		<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	0.0018	J		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.0093	J	J	<0.0061	U		<0.0069	U		<0.011	U	
		VMP-24-5-040811	4/8/2011	0.011	J		<0.07	U		<0.068	U		<0.068	U		<0.22	U		<0.11	U		<0.065	U		<0.074	U		<0.12	U	
		VMP-24-5-072811	7/28/2011	<0.0049	U		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.04			0.0035	J		0.0043	J		<0.011	U	
		VMP-24-5-110211	11/2/2011	<0.0032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.016			0.0013	J		<0.0046	J	U	<0.0072	U	
		VMP-24-5-110211-DUP	11/2/2011	0.0034	J		<0.006	U		<0.0059	U		<0.0059	U		<0.019	U		0.017			0.0015	J		0.0068			<0.01	U	
		VMP-24-5-012512	1/25/2012	0.0011	J		<0.0037	U		<0.0036	U		<0.0036	U		<0.012	U		0.007			0.0023	J		<0.004	U		<0.0062	U	
		VMP-24-5-040912	4/9/2012	<0.033	U		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.087			0.0059			0.0037	J		<0.0073	U	
		VMP-24-5-071212	7/12/2012	0.0018	J		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		<0.0069	U		0.0022	J		0.0042	J		<0.007	U	
		VMP-24-5-101912	10/19/2012	<0.049	U		<0.0065	U		<0.0064	U		<0.0064	U		<0.02	U		0.01	J		0.0012	J		<0.007	U		<0.011	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0047	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		0.024	J	J	0.0028	J		<0.0066	U		<0.01	U	
		VMP-24-10-041111	4/11/2011	0.0022	J		<0.012	U		<0.011	U		<0.011	U		<0.036	U		0.0097	J		<0.011	U		<0.012	U		<0.019	U	
		VMP-24-10-072811	7/28/2011	0.0062			<0.0064	U		<0.0063	U		0.002	J		<0.02	U		0.059			0.0026	J		0.0032	J		<0.01	U	
		VMP-24-10-110211	11/2/2011	<0.0028	J	U	<0.0038	U		<0.0037	U		<0.0037	U		<0.012	U		0.0081			<0.0036	U		<0.004	J	U	<0.0063	U	
		VMP-24-10-012512	1/25/2012	0.006			<0.0036	U		<0.0035	U		<0.0035	U		<0.011	U		0.0088			0.0033	J		<0.0038	U		<0.0059	U	
		VMP-24-10-041012	4/10/2012	<0.032	U		<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.027			0.0012	J		<0.0045	U		<0.007	U	
		VMP-24-10-071212	7/12/2012	<0.037	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.042			0.003	J		<0.0052	J	U	<0.0081	U	
		VMP-24-10-100912	10/9/2012	0.0028	J		<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.036			<0.0057	U		<0.0065	U		<0.01	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0047	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		0.024	J	J	0.0059			0.0026	J		<0.01	U	
		VMP-24-22-041111	4/11/2011	0.0023	J		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		<0.0095	J	U	<0.0055	U		<0.0062	U		<0.0096	U	
		VMP-24-22-072811	7/28/2011	<0.0044	U		<0.0058	U		<0.0057	U		<0.0057	U		<0.018	U		0.034			0.0013	J		0.0019	J		<0.0096	U	
		VMP-24-22-072811-Dup	7/28/2011	<0.005	U		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.028			0.0015	J		<0.0071	U		<0.011	U	
		VMP-24-22-110611	11/6/2011	0.0082			<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.031			0.001	J		0.00058	J		<0.0067	U	
		VMP-24-22-012512	1/25/2012	0.001	J		<0.0038	U		<0.0037	U		<0.0037	U		<0.012	U		0.023			<0.0036	U		<0.004	U		<0.0063	U	
		VMP-24-22-041012	4/10/2012	0.009	J		<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.03			0.0018	J		<0.0044	U		<0.0068	U	
		VMP-24-22-071212	7/12/2012	<0.038	U		<0.005	U		<0.0049	U		<0.0049	U		0.015	J		0.033			0.0019	J		<0.0053	J	U	<0.0083	U	
		VMP-24-22-100912	10/9/2012	0.0024	J		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		<0.0066	U		<0.01	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0047	U		<0.0062	U		<0.0061	U		<0.0061	U		<0.019	U		0.032	J	J	<0.0058	U		<0.0066	U		<0.01	U	
		VMP-24-34-041111	4/11/2011	0.004	J		<0.0056	U		<0.0055	U		<0.0055	U		<0.017	U		0.011			<0.0052	U		<0.0059	U		<0.0093	U	
		VMP-24-34-072811	7/28/2011	0.0018	J		<0.0049	U		<0.0048	U		<0.0048	U		<0.015	U		0.034			0.0017	J		0.002	J		<0.0082	U	
		VMP-24-34-110611	11/6/2011	0.0023	J		<0.0031	U		<0.0031	U		<0.0031	U		<0.0098	U		0.038			0.0011	J		0.0013	J		<0.0052	U	
		VMP-24-34-012512	1/25/2012	0.0013	J		<0.0039	U		<0.0038	U		<0.0038	U		<0.012	U		0.016			<0.0036	U		<0.0041	U		<0.0064	U	
		VMP-24-34-041012	4/10/2012	<0.032	U		<0.0043	U		<0.0042	U		<0.0042	U		<0.013	U		0.048			0.004	J		<0.0046	U		<0.0072	U	
		VMP-24-34-071212	7/12/2012	<0.031	U		<0.0041	U		<0.0041	U		<0.0041	U		<0.013	U		0.06			0.0027	J		<0.0044	J	U	<0.0068	U	
		VMP-24-34-100912	10/9/2012	0.0017	J		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0059	J		<0.006	U		<0.0068	U		<0.01	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	<0.033	J	U	<0.0044	U		<0.0043	U		<0.0043	J	U	<0.014	U		0.083			0.0043			0.0022	J		<0.0073	U	
		VMP-31-5-072012	7/20/2012	0.0021	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.033			<0.0041	U		<0.0047	U		<0.0073	U	
		VMP-31-5-102612	10/26/2012	<0.048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.04			<0.006	U		0.00084	J		<0.01	U	
	10 ft	VMP-31-10-042512	4/25/2012	<0.044	J	U	<0.0059	U		<0.0058	U		<0.0058	U		<0.018	U		0.083			0.0035	J		0.002	J		<0.0098	U	
		VMP-31-10-072612	7/26/2012	<0.034	J	U	<0.0045	U		<0.0044	U		<0.0044	U		<0.014	U		0.012			0.004	J		0.0022	J		<0.0075	U	
		VMP-31-10-102612	10/26/2012	<0.051	J	U	<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.049			<0.0064	U		<0.0073	U		<0.011	U	
	20 ft	VMP-31-20-101912	10/19/2012	<4.8	U		<6.4	U		<6.3	U		<6.3	U		<20	U		<10	U		<6	U		<6.8	U		<10	U	
	30 ft	VMP-31-30-042512	4/25/2012	<1.7	U		<2.3	U		<2.2	U		<2.2	U		<7.1	U		<3.7	U		3			0.54	J		<3.8	U	
		VMP-31-30-042512-Dup	4/25/2012	<1.7	U		<2.3	U		<2.2	U		<2.2	U		<7.1	U		<3.7	U		3.2			0.6	J		<3.8	U	
		VMP-31-30-072012	7/20/2012	<3.3	U		<0.44	U		<0.43	U		<0.43	U		<1.4	U		<0.72	U		<0.41	U		<0.47	U		<0.73	U	
		VMP-31-30-101912	10/19/2012	<0.3	U		<0.4	U		<0.39	U		<0.39	U		<1.2	U		<0.65	U		<0.37	U		<0.42	U		<0.66	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	<0.032	J	U	<0.0043	U		<0.0042	U		<0.0042	J	U	<0.013	U		0.08			0.0034	J		0.0023	J		<0.0072	U	
		VMP-32-5-072012	7/20/2012	0.0012	J		<0.0039	U		<0.0038	U		<0.0038	U		<0.012	U		<0.0063	U		<0.0036	U		0.0011	J		<0.0064	U	
		VMP-32-5-101812	10/18/2012	<0.055	J	U	<0.0074	U		<0.0072	U		<0.0072	U		<0.023	U		0.0073	J		<0.0069	U		<0.0078	U		<0.012	U	
	10 ft	VMP-32-10-041612	4/16/2012	<0.03	J	U	<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.017		J	0.0017	J		0.00093	J		<0.0066	U	
		VMP-32-10-072012	7/20/2012	0.0014	J		<0.0045	U		<0.0044	U		<0.0044	U		0.0079	J		0.012			<0.0042	U		<0.0048	U		<0.0075	U	
		VMP-32-10-101812	10/18/2012	<0.051	U		<0.0068	U		<0.0067	U		<0.0067	U		<0.021	U		0.0059	J		<0.0064	U		<0.0073	U		<0.011	U	
	20 ft	VMP-32-20-041612	4/16/2012	0.073	J		<0.09	U		<0.089	U		<0.089	U		<0.28	U		0.18		J	0.04	J		<0.096	U		<0.15	U	
		VMP-32-20-072012	7/20/2012	0.0014	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		<0.0072	U		<0.0041	U		0.00052	J		<0.0073	U	
		VMP-32-20-101812	10/18/2012	<0.048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0054	J		<0.006	U		<0.0068	U		<0.01	U	
	30 ft	VMP-32-30-041612	4/16/2012	<1.6	U		<2.2	U		<2.1	U		<2.1	U		<6.7	U		<3.5	U		8.6			1.3	J		<3.6	U	
		VMP-32-30-072012	7/20/2012	<3.4	U		<4.4	U		<4.4	U		<4.4	U		<14	U		<7.3	U		<4.2	U		<4.7	U		<7.4	U	
		VMP-32-30-101812	10/18/2012	<0.19	U		<0.25	U		<0.25	U		<0.25	U		<0.79	U		<0.41	U		<0.24	U		<0.27	U		<0.42	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	0.0012	J		<0.004	U		<0.0039	U		<0.0039	U		<0.012	U		0.022		J	0.0046			0.0011	J		<0.0066	U	
		VMP-42-10-041812-Dup	4/18/2012	<0.03	J	U	<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.048		J	0.0046			<0.0043	U		<0.0067	U	
		VMP-42-10-071912	7/19/2012	0.003	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.061			0.0043			0.0027	J		<0.0073	U	
		VMP-42-10-101212	10/12/2012	<0.054	J	U	<0.0071	U		<0.007	U		<0.007	U		<0.022	U		0.036			<0.0067	U		<0.0076	U		<0.012	U	
	20 ft	VMP-42-20-041812	4/18/2012	1.6	J		<2.1	U		<2	U		<2	U		<6.4	U		4.4		J	0.77	J		<2.2	U		<3.4	U	
		VMP-42-20-071912	7/19/2012	0.0029	J		<0.0043	U		<0.0042	U		<0.0042	J	U	<0.013	U		0.053			0.0087			0.0042	J		<0.0072	U	
		VMP-42-20-101212	10/12/2012	0.02	J		<0.0063	U		<0.0062	U		<0.0062	U		<0.02	U		0.0091	J	J	<0.0059	U		<0.0067	U		<0.01	U	
		VMP-42-20-101212-Dup	10/12/2012	<0.048	J	U	<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.036		J	<0.006	U		<0.0068	U		<0.01	U	
	30 ft	VMP-42-30-041912	4/19/2012	<3.2	U		<4.3	U		<4.2	U		<4.2	U		<13	U		<7	U		<4	U		<4.6	U		<7.2	U	
		VMP-42-30-071912	7/19/2012	<0.03	U		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.074		J	0.0073		J	0.0099		J	<0.0067	U	
		VMP-42-30-101212	10/12/2012	<0.05	J	U	<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.011			<0.0063	U		<0.0071	U		<0.011	U	
		VMP-42-30-101212-Dup	10/12/2012	0.0037	J		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		0.01	J		<0.0063	U		<0.0071	U		<0.011	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	<0.034	J	U	<0.0045	U		<0.0044	U		<0.0044	J	U	<0.014	U		0.05		J	0.0036	J		0.0022	J		<0.0075	U	
		VMP-43-10-071912	7/19/2012	<0.065	J	U	<0.0086	U		<0.0085	U		<0.0085	U		<0.027	U		0.064			0.009			0.0042	J		<0.014	U	
		VMP-43-10-101612	10/16/2012	<0.055	U		<0.0074	U		<0.0072	U		<0.0072	U		<0.023	U		0.0081	J		<0.0069	U		<0.0078	U		<0.012	U	
	20 ft	VMP-43-20-041612	4/16/2012	<0.033	U		<0.044	U		<0.043	U		<0.043	U		<0.14	U		<0.072	U		0.014	J		0.017	J		<0.073	U	
		VMP-43-20-071912	7/19/2012	0.003	J		<0.016	U		<0.016	U		<0.016	U		<0.05	U		0.13			0.0065	J		<0.017	U		<0.026	U	
		VMP-43-20-101812	10/18/2012	<0.046	J	U	<0.0061	U		<0.006	U		<0.006	U		<0.019	U		0.063			<0.0057	U		<0.0065	U		<0.01	U	
	30 ft	VMP-43-30-042312	4/23/2012	<0.03	U		<0.04	U		<0.04	U		<0.04	U		<0.13	U		0.14			<0.038	U		<0.043	U		<0.067	U	
		VMP-43-30-071912	7/19/2012	0.0022	J		<0.0044	U		<0.0043	U		<0.0043	U		<0.014	U		0.087			0.0075			0.0052			<0.0073	U	
		VMP-43-30-101812	10/18/2012	<0.048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.014			<0.006	U		<0.0068	U		<0.01	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<1.6	U		<2.1	U		<2.1	U		<2.1	U		<6.6	U		<3.4	U		<2	U		<2.2	U		<3.5	U	
		VMP-44-10-072012	7/20/2012	<0.53	U		<0.71	U		<0.7	U		<0.7	U		<2.2	U		<1.2	U		0.1	J	J	0.51	J	J	<1.2	U	
		VMP-44-10-081012	8/10/2012	<0.32	U		<0.42	U		<0.42	U		<0.42	U		<1.3	U		<0.69	U		0.24	J	J	0.4	J	J	<0.7	U	
		VMP-44-10-101212	10/12/2012	<0.98	U		<1.3	U		<1.3	U		<1.3	U		<4.1	U		<2.1	U		0.19	J		<1.4	U		<2.2	U	
	20 ft	VMP-44-20-041912	4/19/2012	<0.35	U		<0.46	U		<0.46	U		<0.46	U		<1.4	U		<0.76	U		1.1			0.33	J	J	<0.77	U	
		VMP-44-20-072512	7/25/2012	<0.6	U		<0.79	U		<0.78	U		<0.78	U		<2.5	U		<1.3	U		<0.74	U		<0.84	U		<1.3	U	
		VMP-44-20-101212	10/12/2012	<2	U		<2.6	U		<2.6	U		<2.6	U		<8.2	U		0.68	J		<2.5	U		<2.8	U		<4.4	U	
	30 ft	VMP-44-30-041912	4/19/2012	<0.2	U		<0.27	U		<0.26	U		<0.26	U		<0.84	U		<0.44	U		1.6			0.52	J	J	<0.45	U	
		VMP-44-30-072512	7/25/2012	<0.034	U		<0.045	U		<0.044	U		<0.044	U		<0.14	U		0.094	J	J	0.82			0.17			<0.075	U	
		VMP-44-30-072512-Dup	7/25/2012	<0.034	U		<0.045	U		<0.044	U		<0.044	U		<0.14	U		0.092	J	J	0.83			0.16			<0.075	U	
		VMP-44-30-101512	10/15/2012	<2.1	U		<0.28	U		<0.27	U		<0.27	U		<0.87	U		<0.46	U		<0.26	U		<0.3	U		<0.46	U	
		VMP-44-30-101512-Dup	10/15/2012	<2	U		<0.26	U		<0.26	U		<0.26	U		<0.81	U		<0.42	U		<0.24	U		<0.28	U		<0.43	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				5.6			0.062			0.9			0.9			0.22						1400								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	<0.032	J	U	<0.0042	U		<0.0042	U		<0.0042	U		<0.013	U		0.019		J	0.0017	J		<0.0045	U		<0.007	U	
		VMP-45-10-071912	7/19/2012	<0.032	J	U	<0.0043	U		<0.0042	U		<0.0042	U		0.0034	J		0.042			0.0055			0.0019	J		<0.0072	U	
		VMP-45-10-101512	10/15/2012	<0.05	U		<0.0067	U		<0.0066	U		<0.0066	U		<0.021	U		<0.011	U		<0.0063	U		<0.0072	U		<0.011	U	
	20 ft	VMP-45-20-041912	4/19/2012	<0.2	U		<0.26	U		<0.26	U		<0.26	U		<0.82	U		0.18	J		3.8			0.7			<0.44	U	
		VMP-45-20-071912	7/19/2012	0.6	J		<0.082	U		<0.081	U		<0.081	U		<0.26	U		0.4			0.022	J		<0.088	U		<0.14	U	
		VMP-45-20-101512	10/15/2012	<0.048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0044	J		<0.006	U		<0.0068	U		<0.01	U	
	30 ft	VMP-45-30-041912	4/19/2012	<0.13	U		<0.18	U		<0.17	U		<0.17	U		<0.55	U		<0.29	U		<0.16	U		0.052	J	J	<0.29	U	
		VMP-45-30-071912	7/19/2012	<0.033	U		<0.044	U		<0.043	U		<0.043	U		<0.14	U		<0.072	U		<0.041	U		<0.047	U		<0.073	U	
		VMP-45-30-101512	10/15/2012	<0.048	U		<0.0064	U		<0.0063	U		<0.0063	U		<0.02	U		0.0035	J		<0.006	U		<0.0068	U		<0.01	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.047	J	U	<0.0063	U		<0.0062	U		<0.0062	U		<0.02	U		<0.01	U		<0.0059	U		<0.0067	U		<0.01	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 600			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	<0.03	U		<0.017	U		<0.18	U		0.025			<0.07	U					<0.021	U		<0.017	U		<0.015	U	
		VMP-1-5-111710	11/17/2010	<0.036	U		0.16			<0.22	U		0.4			<0.084	U					<0.025	U		<0.021	U		<0.018	U	
		VMP-1-5-020411	2/4/2011	<0.71	U		<0.41	U		<4.3	U		9.4			<1.6	U					<0.5	U		<0.41	U		<0.36	U	
		VMP-1-5-041211	4/12/2011	<0.0092	U		0.45			<0.056	U		0.53			<0.022	U		0.099			0.0019	J		<0.0054	U		<0.0048	U	
		VMP-1-5-080111	8/1/2011	<0.0092	U		0.012			<0.056	U		0.037			0.0024	J		0.45			0.03			0.081			<0.0048	U	
		VMP-1-5-110311	11/3/2011	<24	U		<14	U		<150	U		13			<57	U		2100			<17	U		<14	U		<13	U	
		VMP-1-5-013012	1/30/2012	<2	U		11		J	<12	U		66		J	<4.8	U		3000		J	<1.4	U		<1.2	U		<1	U	
		VMP-1-5-041312	4/13/2012	<0.0062	U		0.0098			<0.038	U		0.0078			<0.015	U		0.011			0.007			0.025			<0.0032	U	
		VMP-1-5-071612	7/16/2012	<0.0064	U		0.093			<0.039	U		0.085			0.0041	J		0.042			0.062			0.3			<0.0033	U	
		VMP-1-5-101112	10/11/2012	<0.016	U		0.021			<0.098	U		0.16			<0.038	UJ	UJ	4.8			<0.011	U		<0.0094	U		<0.0083	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	<0.09	U		<0.053	U		<0.55	U		<0.045	U		<0.21	U					<0.063	U		<0.053	U		<0.046	U	
		VMP-1-8.5-111710	11/17/2010	<0.017	U		0.075			<0.1	U		0.088			<0.04	U					<0.012	U		<0.01	U		<0.0089	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.017	U		0.06			<0.1	U		0.076			<0.04	U					<0.012	U		<0.01	U		0.00094	J	
		VMP-1-8.5-020411	2/4/2011	<1.4	U		<0.81	U		<8.5	U		11			<3.2	U					<0.98	U		<0.81	U		<0.72	U	
		VMP-1-8.5-041211	4/12/2011	<0.012	U		0.17			<0.074	U		0.14			<0.028	U		0.046			0.0013	J		<0.0071	U		<0.0063	U	
		VMP-1-8.5-080111	8/1/2011	<5	U		<3	U		<31	U		5.1			<12	U		1300			<3.5	U		<2.9	U		<2.6	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<4.9	U		<2.9	U		<30	U		17			<12	U		1300			<3.5	U		<2.9	U		<2.5	U	
		VMP-1-8.5-110311	11/3/2011	<56	U		<33	U		<340	U		36			<130	U		4500			<40	U		<33	U		<29	U	
		VMP-1-8.5-013012	1/30/2012	<12	U		10			<75	U		58			<29	U		3200		J	<8.6	U		<7.2	U		<6.3	U	
		VMP-1-8.5-041612	4/16/2012	<0.0074	U		0.0094			<0.045	U		0.0059			<0.017	U		0.1		J	0.0094			0.024			<0.0038	U	
		VMP-1-8.5-041612-Dup	4/16/2012	<0.0072	U		0.009			<0.044	U		0.0061			<0.017	U		0.19		J	0.0097			0.022			<0.0037	U	
		VMP-1-8.5-071612	7/16/2012	<0.0064	U		0.016			<0.039	U		0.01			0.0033	J		0.0055	J		0.067			0.26			<0.0033	U	
		VMP-1-8.5-101112	10/11/2012	<0.0098	U		0.14			<0.06	U		0.14			<0.023	UJ	UJ	0.22			<0.0069	U		<0.0058	U		<0.0051	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<3.1	U		44			<19	U		260			<7.3	U					<2.2	U		<1.8	U		<1.6	U	
		VMP-1-23.5-111810	11/17/2010	<0.0086	U		0.015			<0.053	U		0.016			<0.02	U					<0.0061	U		<0.005	U		0.00052	J	
		VMP-1-23.5-020411	2/4/2011	<8.1	U		<4.8	U		<50	U		300			<19	U					<5.7	U		<4.8	U		<4.2	U	
		VMP-1-23.5-041211	4/12/2011	<13	U		4.2	J		<81	U		9.7			<31	U		900		J	<9.3	U		<7.8	U		<6.8	U	
		VMP-1-23.5-041211-DUP	4/12/2011	<17	U		6.8	J		<100	U		14			<39	U		1300		J	<12	U		<9.8	U		<8.6	U	
		VMP-1-23.5-080111	8/1/2011	<90	U		49	J		<550	U		320			<210	U		16000			<63	U		<53	U		<46	U	
		VMP-1-23.5-110611	11/6/2011	<21	U		18			<130	U		58			<50	U		6000			<15	U		<12	U		<11	U	
		VMP-1-23.5-013112	1/31/2012	<42	U		11	J		<260	U		92			<98	U		5600			<29	U		<24	U		<22	U	
		VMP-1-23.5-041612	4/16/2012	<3.3	U		<2	U		<20	U		7			<7.8	U		940			1.7	J		<2	U		<1.7	U	
		VMP-1-23.5-071612	7/16/2012	<42	U		<25	U		<260	U		180			<99	U		6500			<30	U		<25	U		<22	U	
		VMP-1-23.5-102412	10/24/2012	<84	U		<49	U		<510	U		96			<200	U		2100			<59	U		<49	U		<43	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	<0.0065	U		0.0024	J		<0.04	U		<0.0033	U		0.0024	J		0.0088	J		0.032			0.069			0.0004	J	
		VMP-1-38.5-102612	10/26/2012	<4.5	U		18			<28	U		98			<11	U		1700			<3.2	U		<2.7	U		<2.3	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<3.1	U		<1.8	U		<19	U		<1.6	U		<7.3	U					<2.2	U		<1.8	U		<1.6	U	
		VMP-2-5-111610	11/16/2010	<4.6	U		<2.7	U		<28	U		42			<11	U					<3.2	U		<2.7	U		<2.4	U	
		VMP-2-5-020411	2/4/2011	<1.2	U		<0.71	U		<7.4	U		2.7			<2.8	U					<0.85	U		<0.71	U		<0.62	U	
		VMP-2-5-041311	4/13/2011	<0.0097	U		0.13			<0.059	U		0.087			<0.023	U		0.1			0.0013	J		<0.0057	U		0.00046	J	
		VMP-2-5-080211	8/2/2011	<10	U		<5.9	U		<62	U		32			<24	U		6800			<7.1	U		<5.9	U		<5.2	U	
		VMP-2-5-110711	11/7/2011	<0.006	U		0.0019	J		<0.036	U		<0.003	J	U	0.00074	J		<0.01	U		0.0044			0.033			<0.0031	U	
		VMP-2-5-012512	1/25/2012	<0.68	U		<0.4	U		<4.1	U		0.57			<1.6	U		2.3			<0.48	U		<0.4	U		<0.35	U	
		VMP-2-5-042512	4/25/2012	<0.027	U		0.15			<0.16	U		0.32			<0.062	U		0.31			0.033			0.27			<0.014	U	
		VMP-2-5-071612	7/16/2012	<0.0065	U		0.02			<0.04	U		0.024			0.0046	J		0.22			0.079			0.31			<0.0034	U	
		VMP-2-5-102412	10/24/2012	<0.01	U		0.0024	J		<0.061	U		0.003	J		<0.023	U		0.019			0.052			0.11			<0.0052	U	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<3.2	U		<1.9	U		<20	U		38			<7.5	U					<2.3	U		<1.9	U		<1.6	U	
		VMP-2-8.5-111610	11/16/2010	<8.8	U		<5.2	U		<54	U		54			<21	U					<6.2	U		<5.2	U		<4.5	U	
		VMP-2-8.5-020411	2/4/2011	<3	U		<1.8	U		<18	U		6.1			<7	U					<2.1	U		<1.8	U		<1.6	U	
		VMP-2-8.5-041311	4/13/2011	<0.92	U		0.38	J		<5.6	U		0.16	J		<2.2	U		3.5			0.18	J		0.18	J		<0.47	U	
		VMP-2-8.5-080211	8/2/2011	<37	U		<22	U		<230	U		56			<87	U		8300			<26	U		<22	U		<19	U	
		VMP-2-8.5-110711	11/7/2011	<0.08	U		<0.047	U		<0.49	U		<0.04	U		<0.19	U		<0.13	U		<0.056	U		0.017	J		<0.041	U	
		VMP-2-8.5-012612	1/26/2012	<3.5	U		<2.1	U		<22	U		1.7	J		<8.3	U		860			<2.5	U		<2.1	U		<1.8	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<3.5	U		<2.1	U		<22	U		2.3		J	<8.3	U		1000		J	<2.5	U		<2.1	U		<1.8	U	
		VMP-2-8.5-041612	4/16/2012	<0.0068	U		0.006			<0.042	U		0.0037			<0.016	U		0.032			0.0084			0.028			<0.0035	U	
		VMP-2-8.5-041612-Dup	4/16/2012	<0.007	U		0.0053			<0.043	U		0.0037			<0.016	U		0.012			0.0088			0.028			<0.0036	U	
		VMP-2-8.5-071612	7/16/2012	<0.0078	U		0.0048			<0.048	U		0.0083			0.0038	J		0.056		J	0.032			0.13			<0.004	U	
		VMP-2-8.5-071612-Dup	7/16/2012	<0.0064	U		0.0059			<0.039	U		0.0085			0.0052	J		0.02		J	0.035			0.13			<0.0033	U	
		VMP-2-8.5-102312	10/23/2012	<0.01	U		0.075			<0.062	U		0.18			<0.024	U		0.75			0.0015	J		0.0077			<0.0052	U	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<4.9	U		<2.9	U		<30	U		63			<12	U					<3.5	U		<2.9	U		<2.5	U	
		VMP-2-22-111610	11/16/2010	<9.2	U		<5.4	U		<56	U		78			<22	U					<6.5	U		<5.4	U		<4.8	U	
		VMP-2-22-020411	2/4/2011	<4.2	U		<2.4	U		<25	U		35			<9.7	U					<2.9	U		<2.4	U		<2.1	U	
		VMP-2-22-041311	4/13/2011	<12	U		<7.2	U		<74	U		1.7	J		<28	U		1400			<8.6	U		1.6	J		<6.3	U	
		VMP-2-22-080211	8/2/2011	<49	U		<29	U		<300	U		59			<120	U		8600			<35	U		<29	U		<25	U	
		VMP-2-22-110711	11/7/2011	<2.6	U		<1.5	U		<16	U		0.47	J		<6.1	U		560			<1.8	U		<1.5	U		<1.3	U	
		VMP-2-22-012612	1/26/2012	<5.4	U		<3.2	U		<33	U		3.6		J	<13	U		1200		J	<3.8	U		<3.2	U		<2.8	U	
		VMP-2-22-042712	4/27/2012	<0.0056	U		0.0032	J		<0.034	U		0.0051			<0.013	U		0.031			0.0088			0.077			<0.0029	U	
		VMP-2-22-071612	7/16/2012	<0.0066	U		0.028			<0.04	U		0.034			0.0058	J		0.04			0.065			0.29			<0.0034	U	
		VMP-2-22-102312	10/23/2012	<0.01	U		0.014			<0.062	U		0.037			<0.024	U		0.13			<0.0072	U		0.003	J		<0.0052	U	

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TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE)		
																						600						3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<9.3	U		4.8	J		<57	U		110			<22	U					<6.5	U		<5.4	U		<4.8	U	
		VMP-3-5-112210	11/22/2010	<9.4	U		<5.5	U		<57	U		150			<22	U					<6.6	U		<5.5	U		<4.8	U	
		VMP-3-5-020911	2/9/2011	<4.2	U		<2.5	U		<26	U		25			<9.9	U					<3	U		<2.5	U		<2.2	U	
		VMP-3-5-041411	4/14/2011	<45	U		<27	U		<280	U		240			<110	U		12000			<32	U		<27	U		<23	U	
		VMP-3-5-080211	8/2/2011	<0.011	U		0.0027	J		<0.066	U		0.022			0.0035	J		0.3			0.021			0.092			<0.0056	U	
		VMP-3-5-110811	11/8/2011	<0.006	U		<0.0035	U		<0.036	U		<0.003	U		0.00045	J		0.0033	J		0.0039	J		0.021			<0.0031	U	
		VMP-3-5-110811-DUP	11/8/2011	<0.0061	U		0.0023	J		<0.037	U		0.0025	J		0.00046	J		0.0044	J		0.0034	J		0.019			<0.0032	U	
		VMP-3-5-012712	1/27/2012	<3	U		<1.8	U		<19	U		58			<7.2	U		1100			<2.2	U		<1.8	U		<1.6	U	
		VMP-3-5-041912	4/19/2012	<0.0067	U		0.011			<0.041	U		0.009			<0.016	U		0.017			0.043			0.48			<0.0034	U	
		VMP-3-5-072712	7/27/2012	<0.007	U		0.0029	J		<0.043	U		0.022			0.0036	J		0.009	J		0.015			0.059			<0.0036	U	
	10 ft	VMP-3-10	6/21/2010	<10	U		86			<65	U		1300			<25	U					2.8	J		<6.2	U		<5.5	U	
		VMP 3-10-091010	9/10/2010	<30	U		87			<180	U		1100			<70	U					5	J		<17	U		<15	U	
		VMP-3-10-092010	9/20/2010	<22	U		48			<130	U		660			<51	U					<15	U		<13	U		<11	U	
		VMP-3-10-112210	11/22/2010	<9.2	U		86			<56	U		1200			<22	U					7.8			<5.4	U		<4.8	U	
		VMP-3-10-112210-Dup	11/22/2010	<13	U		82			<78	U		1100			<30	U					5.4	J		<7.5	U		<6.6	U	
		VMP-3-10-020811	2/8/2011	<14	U		<8	U		<83	U		690			<32	U					<9.5	U		<7.9	U		<7	U	
		VMP-3-10-041311	4/13/2011	<79	U		<46	U		<480	U		560			<180	U		21000			<55	U		<46	U		<40	U	
		VMP-3-10-080311	8/3/2011	<0.099	U		<0.058	U		<0.6	U		0.1			<0.23	U		100	E	J	0.048	J		<0.058	U		<0.051	U	
		VMP-3-10-110811	11/8/2011	<0.0081	U		<0.0048	U		<0.05	U		0.0022	J		<0.019	J	U	0.96			0.0037	J		0.027			<0.0042	U	
		VMP-3-10-012712	1/27/2012	<0.059	U		0.32			<0.36	U		1.7			<0.14	U		7.9			0.016	J		0.042			<0.03	U	
		VMP-3-10-042012	4/20/2012	<0.006	U		0.0039			<0.036	U		0.015			<0.014	U		0.068			0.013			0.12			<0.0031	U	
		VMP-3-10-072312	7/23/2012	<0.007	U		<0.0041	U		<0.043	U		0.015			0.0053	J		0.15			0.0011	J		0.059			<0.0036	U	
		VMP-3-10-101812	10/18/2012	<0.01	U		0.2			<0.065	U		0.46			<0.025	U		0.085			0.0017	J		0.024			<0.0055	U	
	22 ft	VMP-3-22-092010	9/20/2010	<28	U		130			<170	U		1500			<67	U					14	J		<17	U		<15	U	
		VMP-3-22-112210	11/22/2010	<32	U		140			<200	U		2000			<76	U					20	J		<19	U		<17	U	
		VMP-3-22-020811	2/8/2011	<16	U		<9.4	U		<98	U		1400			<38	U					9.9	J		<9.4	U		<8.2	U	
		VMP-3-22-041511	4/15/2011	<87	U		50			<530	U		850			<200	U		24000			<61	U		<51	U		<45	U	
		VMP-3-22-080611	8/6/2011	<0.14	U		0.51			<0.84	U		3			<0.32	U		24			0.059	J		0.15			<0.071	U	
		VMP-3-22-110811	11/8/2011	<0.0061	U		<0.0036	U		<0.037	U		0.0014	J		<0.014	U		0.32			0.00078	J		0.0093			<0.0032	U	
		VMP-3-22-013012	1/30/2012	<0.024	U		0.45			<0.15	U		1.2			<0.057	U		2.8			0.0065	J		0.046			<0.013	U	
		VMP-3-22-042012	4/20/2012	<0.0061	U		0.004			<0.037	U		0.012			<0.014	U		0.28			0.013			0.1			<0.0032	U	
		VMP-3-22-072312	7/23/2012	<0.0068	U		0.0012	J		<0.042	U		0.00096	J		<0.016	U		<0.012	U		0.0014	J		0.013			<0.0035	U	
		VMP-3-22-101812	10/18/2012	<0.01	U		0.0078			<0.063	U		0.0042	J		<0.024	U		0.028			<0.0073	U		0.043			<0.0053	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<53	U		1100			<320	U		25000			<120	U					<37	U		<31	U		<27	U	
		VMP-3-31.5-112210	11/22/2010	<37	U		1200			<230	U		20000			<87	U					<26	U		<22	U		<19	U	
		VMP-3-31.5-020911	2/9/2011	<35	U		480			<220	U		6400			<83	U					<25	U		<21	U		<18	U	
		VMP-3-31.5-041411	4/14/2011	<290	U		510			<1800	U		9600			<680	U		52000			<200	U		<170	U		<150	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<290	U		450			<1800	U		8800			<680	U		48000			<200	U		<170	U		<150	U	
		VMP-3-31.5-080211	8/2/2011	<660	U		860			<4000	U		18000			<1500	U		80000			<460	U		<380	U		<340	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<380	U		1200			<2300	U		27000			<900	U		120000			<270	U		<220	U		<200	U	
		VMP-3-31.5-110811	11/8/2011	<15	U		55			<93	U		720			<36	U		3200			<11	U		<9	U		<7.9	U	
		VMP-3-31.5-012712	1/27/2012	<97	U		88		J	<590	U		1700		J	<230	U		16000		J	<68	U		<57	U		<50	U	
		VMP-3-31.5-041912	4/19/2012	<170	U		240		J	<1000	U		6500			<390	U		53000			<120	U		<98	U		<86	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<160	U		180		J	<980	U		6600			<380	U		54000			<110	U		<94	U		<82	U	
		VMP-3-31.5-072312	7/23/2012	<40	U		<23	U		<240	U		620			<94	U		18000			<28	U		<23	U		<21	U	
		VMP-3-31.5-101912	10/19/2012	<3.2	U		<1.9	U		<20	U		14			<7.5	U		240			<2.3	U		<1.9	U		<1.6	U	
	39 ft	VMP-3-39-101912	10/19/2012	<320	U		<190	U		<2000	U		1200			<750	U		19000			<230	U		<190	U		<160	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.5	U		1.7			<3.1	U		13			<1.2	U					0.048	J		<0.29	U		<0.26	U	
		VMP-4-5-112210	11/22/2010	<19	U		580			<110	U		1300			<44	U					6.6	J		<11	U		<9.7	U	
		VMP-4-5-021411	2/14/2011	<1.1	U		30			<6.7	U		88			<2.6	U					<0.77	U		<0.64	U		<0.57	U	
		VMP-4-5-041911	4/19/2011	<51	U		380			<310	U		1200			<120	U		11000			<36	U		<30	U		<26	U	
		VMP-4-5-080311	8/3/2011	<0.11	U		0.054	J		<0.66	U		0.6			0.0083	J		19	E	J	0.072	J		<0.064	U		<0.056	U	
		VMP-4-5-110911	11/9/2011	<0.006	U		0.0018	J		<0.036	U		0.0032			<0.014	U		0.04			0.0021	J		<0.0035	U		<0.0031	U	
		VMP-4-5-013012	1/30/2012	<0.3	U		2.2		J	<1.9	U		12		J	<0.72	U		100		J	<0.22	U		<0.18	U		<0.16	U	
		VMP-4-5-042512	4/25/2012	<0.0076	U		0.22			<0.046	U		0.58			0.004	J		0.43			0.054			0.22			<0.0039	U	
		VMP-4-5-072512	7/25/2012	<0.0075	U		0.03			<0.046	U		0.012			0.0053	J		0.027			0.073			0.32			<0.0038	U	
		VMP-4-5-101812	10/18/2012	<0.011	U		0.0018	J		<0.066	U		<0.0055	U		<0.025	U		0.0051	J		0.025			0.048			<0.0056	U	
	12 ft	VMP-4-12-082510	8/25/2010	<8.8	U		420			<54	U		1200			<21	U					3.6	J		<5.2	U		<4.5	U	
		VMP-4-12-112310	11/23/2010	<9	U		240			<55	U		690			<21	U					<6.3	U		<5.3	U		<4.6	U	
		VMP-4-12-021411	2/14/2011	<2.3	U		24			<14	U		160			<5.3	U					<1.6	U		<1.3	U		<1.2	U	
		VMP-4-12-041911	4/19/2011	<44	U		480			<270	U		1300			<100	U		11000			<31	U		<26	U		<22	U	
		VMP-4-12-080311	8/3/2011	<5	U		41			<31	U		170			<12	U		3100			<3.5	U		<2.9	U		<2.6	U	
		VMP-4-12-080311-Dup	8/3/2011	<10	U		36			<62	U		150			<24	U		3400			<7.1	U		<5.9	U		<5.2	U	
		VMP-4-12-110911	11/9/2011	<1.5	U		1.6			<9.3	U		11			<3.6	U		260			<1.1	U		<0.9	U		<0.79	U	
		VMP-4-12-013012	1/30/2012	<3.1	U		95			<19	U		260			<7.3	U		980		J	<2.2	U		<1.8	U		<1.6	U	
		VMP-4-12-041812	4/18/2012	<0.007	U		0.0064			<0.043	U		0.011			<0.016	U		0.011	J		0.07			0.38			<0.0036	U	
		VMP-4-12-072312	7/23/2012	<0.034	U		0.48			<0.21	U		0.2			<0.08	U		0.25			0.036			0.13			<0.018	U	
		VMP-4-12-101812	10/18/2012	<0.01	U		0.014			<0.065	U		0.0032	J		<0.025	U		0.019			0.0015	J		0.0038	J		<0.0055	U	
		VMP-4-12-101812-Dup	10/18/2012	<0.011	U		0.016			<0.066	U		0.0032	J		<0.025	U		0.012	J		0.0014	J		0.0044	J		<0.0056	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<10	U		4100		J	<62	U		13000		J	<24	U					38		J	<5.9	U		<5.2	U	
		VMP-4-23.5-112310	11/23/2010	<100	U		3900			<620	U		15000			<240	U					<72	U		<60	U		<52	U	
		VMP-4-23.5-021411	2/14/2011	<3.7	U		1700		J	<23	U		12000			<8.7	U					<2.6	U		<2.2	U		<1.9	U	
		VMP-4-23.5-042011	4/20/2011	<240	U		2900			<1400	U		13000			<1400	U		81000			<160	U		<1400	U		<120	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<240	U		2800			<1400	U		13000			<1400	U		78000			<160	U		<1400	U		<120	U	
		VMP-4-23.5-080611	8/6/2011	<9.8	U		2200			<60	U		11000			<23	U		69000			6.6	J		<5.8	U		<5.1	U	
		VMP-4-23.5-110911	11/9/2011	<29	U		740			<180	U		6200			<69	U		37000			<21	U		<17	U		<15	U	
		VMP-4-23.5-013012	1/30/2012	<62	U		4700		J	<380	U		14000		J	<150	U		32000		J	<44	U		<37	U		<32	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<44	U		3200		J	<270	U		11000			<100	U		34000		J	<31	U		<26	U		<22	U	
		VMP-4-23.5-041912	4/19/2012	<14	U		2400			<84	U		4800			<32	U		4700			<9.6	U		<8	U		<7.1	U	
		VMP-4-23.5-072312	7/23/2012	<6.6	U		1700			<40	U		1500			<15	U		1900			<4.6	U		<3.8	U		<3.4	U	
		VMP-4-23.5-101812	10/18/2012	<7.2	U		65			<44	U		140			<17	U		320			<5.1	U		<4.2	U		<3.7	U	
	39 ft	VMP-4-39-042111	4/21/2011	<290	U		2700			<1800	U		13000			<1700	U		77000			<210	U		<1700	U		<150	U	
		VMP-4-39-041912	4/19/2012	<7	U		3200			<43	U		10000			<16	U		11000			3.4	J		<4.1	U		<3.6	U	
		VMP-4-39-072312	7/23/2012	<10	U		3800		J	<64	U		2700		J	<25	U		3000		J	<7.4	U		<6.2	U		<5.4	U	
		VMP-4-39-101812	10/18/2012	<130	U		1400			<810	U		2200			<310	U		6400			<93	U		<78	U		<68	U	
		VMP-4-39-101812-Dup	10/18/2012	<120	U		1400			<740	U		2200			<280	U		6400			<85	U		<71	U		<62	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 600			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<18	U		140			<110	U		1500			<43	U					<13	U		<11	U		<9.5	U	
		VMP-5-5-112210	11/22/2010	<4.5	U		120			<28	U		1400			<10	U					<3.2	U		<2.6	U		<2.3	U	
		VMP-5-5-021611	2/16/2011	<0.029	U		<0.017	U		<0.18	U		<0.014	U		<0.067	U					<0.02	U		<0.017	U		<0.015	U	
		VMP-5-5-042111	4/21/2011	<0.092	U		<0.054	U		<0.56	U		0.035	J		<0.54	U		0.25			<0.065	U		<0.54	U		<0.048	U	
		VMP-5-5-080511	8/5/2011	<0.0088	U		0.047			<0.054	U		0.083			<0.021	U		0.32			0.01			0.072			<0.0045	U	
		VMP-5-5-111111	11/11/2011	<0.0065	U		0.23			<0.04	U		0.11			<0.015	U		0.24			0.025			0.021			<0.0034	U	
		VMP-5-5-013012	1/30/2012	<0.065	U		0.1			<0.4	U		0.63			<0.15	U		4.9			0.0069	J		0.028	J		<0.034	U	
		VMP-5-5-041112	4/11/2012	<0.0064	U		0.0028	J		<0.039	U		0.0019	J		<0.015	U		0.0036	J		0.03			0.17			<0.0033	U	
		VMP-5-5-071312	7/13/2012	<0.0071	U		0.0029	J		<0.043	U		<0.0036	J	U	<0.017	U		0.0069	J		<0.005	J	U	<0.0048		U	<0.0036	U	
		VMP-5-5-101212	10/12/2012	<0.0088	U		<0.0052	U		<0.054	U		0.0019	J		<0.021	U		0.0062	J		<0.0062	U		<0.0052	U		<0.0045	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<9.2	U		120			<56	U		1300			<22	U					<6.5	U		<5.4	U		<4.8	U	
		VMP-5-12.5-112310	11/23/2010	<0.46	U		<0.27	U		<2.8	U		15			<1.1	U					<0.32	U		<0.27	U		<0.24	U	
		VMP-5-12.5-021611	2/16/2011	<1.4	U		5.8			<8.5	U		110			<3.2	U					<0.98	U		<0.81	U		<0.72	U	
		VMP-5-12.5-042111	4/21/2011	<0.098	U		<0.058	U		<0.6	U		0.03	J		<0.58	U		0.2			<0.069	U		<0.58	U		<0.051	U	
		VMP-5-12.5-080611	8/6/2011	<8.7	U		27			<53	U		340			<20	U		10000			<6.1	U		<5.1	U		<4.5	U	
		VMP-5-12.5-111111	11/11/2011	<0.0062	U		0.0024	J		<0.038	U		0.0018	J		<0.014	U		0.0029	J		0.0024	J		0.022			<0.0032	U	
		VMP-5-12.5-013012	1/30/2012	<0.02	U		0.035			<0.12	U		0.18			<0.047	U		1.5			0.0043	J		0.02			<0.01	U	
		VMP-5-12.5-041112	4/11/2012	<0.0061	U		0.0027	J		<0.037	U		0.0053			<0.014	U		0.13			0.022			0.14			<0.0032	U	
		VMP-5-12.5-071212	7/12/2012	<0.0072	U		0.0017	J		<0.044	U		0.0012	J		<0.017	U		0.0047	J		<0.0051	U		<0.0042	J	U	<0.0037	U	
		VMP-5-12.5-101112	10/11/2012	<0.017	U		<0.01	U		<0.1	U		0.0016	J		<0.04	UJ	UJ	0.011	J		<0.012	U		0.0033	J		<0.0088	U	
	31 ft	VMP-5-31-090910	9/9/2010	<38	U		1300			<230	U		7700			<90	U					<27	U		<22	U		<20	U	
		VMP-5-31-112310	11/23/2010	<24	U		1700			<150	U		8200			<57	U					<17	U		<14	U		<12	U	
		VMP-5-31-021611	2/16/2011	<9.6	U		950			<59	U		5600			<23	U					<6.8	U		<5.6	U		<5	U	
		VMP-5-31-042111	4/21/2011	<140	U		900			<880	U		6200			<840	U		44000			<100	U		<840	U		<74	U	
		VMP-5-31-080611	8/6/2011	<81	U		780			<490	U		5800			<190	U		43000			<57	U		<48	U		<42	U	
		VMP-5-31-111111	11/11/2011	<41	U		220			<250	U		2200			<96	U		24000			<29	U		<24	U		<21	U	
		VMP-5-31-013012	1/30/2012	<21	U		82			<130	U		740			<49	U		13000		J	<15	U		<12	U		<11	U	
		VMP-5-31-041112	4/11/2012	<0.067	U		0.062			<0.41	U		0.32			<0.16	U		12			0.016	J		0.088			<0.034	U	
		VMP-5-31-071212	7/12/2012	<0.007	U		0.017			<0.043	U		0.057			<0.016	U		0.47			<0.0049	J	U	0.016			<0.0036	U	
		VMP-5-31-101112	10/11/2012	<0.0098	U		0.0039	J		<0.06	U		0.015			<0.023	UJ	UJ	0.13			<0.0069	U		<0.0058	U		<0.0051	U	
	40 ft	VMP-5-40-042111	4/21/2011	<150	U		730			<920	U		4900			<880	U		35000			<100	U		<880	U		<78	U	
		VMP-5-40-013012	1/30/2012	<44	U		53			<270	U		560			<100	U		12000		J	<31	U		<26	U		<22	U	
		VMP-5-40-041212	4/12/2012	<0.065	U		0.21			<0.4	U		1.5			<0.15	U		100			0.044	J		0.23			<0.034	U	
		VMP-5-40-071212	7/12/2012	<0.07	U		<0.041	U		<0.43	U		0.02	J		<0.16	U		7.6			<0.049	U		<0.041	U		<0.036	U	
		VMP-5-40-101112	10/11/2012	<0.01	U		0.0031	J		<0.063	U		0.0076			<0.024	U	UJ	1.2			0.0017	J		0.014			<0.0053	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<1.5	U		43			<9.4	U		130			<3.6	U					<1.1	U		<0.9	U		<0.79	U	
		VMP-6-5-111610	11/16/2010	<9.6	U		600			<59	U		1100			<23	U					4.2	J		<5.6	U		<5	U	
		VMP-6-5-020711	2/7/2011	<0.0083	U		0.03			<0.051	U		0.022			<0.019	U					0.0024	J		<0.0049	U		<0.0043	U	
		VMP-6-5-040811	4/8/2011	<0.018	U		<0.011	U		<0.11	U		<0.0091	U		<0.042	U		0.44			<0.013	U		<0.011	U		<0.0093	U	
		VMP-6-5-080411	8/4/2011	<0.47	U		3.7			<2.8	U		32			<1.1	U		250			<0.33	U		<0.27	U		<0.24	U	
		VMP-6-5-110911	11/9/2011	<0.0056	U		0.045			<0.034	U		0.055			<0.013	U		0.065			0.014			0.022			<0.0029	U	
		VMP-6-5-013112	1/31/2012	<0.066	U		0.43			<0.4	U		1.3			<0.16	U		5.6			0.0092	J		0.068			<0.034	U	
		VMP-6-5-041212	4/12/2012	<0.007	U		0.009			<0.043	U		0.0094			<0.016	U		0.0076	J		<0.0049	U		<0.0041	U		<0.0036	U	
		VMP-6-5-071612	7/16/2012	<0.007	U		0.0025	J		<0.043	U		0.0037			<0.016	U		<0.012	U		<0.0049	J	U	0.0029	J		<0.0036	U	
		VMP-6-5-101012	10/10/2012	<0.0096	U		<0.0056	U		<0.059	U		<0.0049	U		<0.023	UJ	UJ	0.0025	J		<0.0068	U		<0.0056	U		<0.005	U	
	10 ft	VMP-6-10-090810	9/8/2010	<1.7	U		160		J	<10	U		400		J	<3.9	U					0.54	J	J	<0.97	U		<0.86	U	
		VMP-6-10-111710	11/17/2010	<0.009	U		0.0043	J		<0.055	U		0.013			<0.021	U					<0.0063	U		<0.0053	U		0.00056	J	
		VMP-6-10-020711	2/7/2011	<0.0088	U		0.0018	J		<0.054	U		0.0038	J		<0.021	U					<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-6-10-040811	4/8/2011	<0.21	U		<0.12	U		<1.3	U		<0.11	U		<0.5	U		<0.36	U		<0.15	U		<0.12	U		<0.11	U	
		VMP-6-10-080411	8/4/2011	<1.5	U		76			<9.1	U		210			<3.5	U		770			<1	U		<0.88	U		<0.77	U	
		VMP-6-10-111011	11/10/2011	<0.0059	U		0.0016	J		<0.036	U		0.0081			<0.014	U		0.062			0.0018	J		0.022			<0.003	U	
		VMP-6-10-013112	1/31/2012	<1	U		24		J	<6.4	U		98		J	<2.4	U		220		J	<0.73	U		<0.61	U		<0.54	U	
		VMP-6-10-041212	4/12/2012	<0.0068	U		0.0064			<0.042	U		0.0068			<0.016	U		0.005	J		<0.0048	J	U	<0.004	U		<0.0035	U	
		VMP-6-10-071612	7/16/2012	<0.0092	U		<0.0054	J	U	<0.056	U		0.0027	J		<0.022	U		0.0043	J		<0.0065	J	U	0.0076			<0.0048	U	
		VMP-6-10-101112	10/11/2012	<0.01	U		0.0026	J		<0.062	U		0.0022	J		<0.024	UJ	UJ	0.0057	J		<0.0071	U		<0.0059	U		<0.0052	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<11	U		1900			<69	U		3200			<26	U					19			<6.6	U		<5.8	U	
		VMP-6-31.5-111710	11/17/2010	<18	U		2200			<110	U		3400			<41	U					19			<10	U		<9.1	U	
		VMP-6-31.5-020711	2/7/2011	<17	U		1900			<100	U		3000			<40	U					26			<9.9	U		<8.7	U	
		VMP-6-31.5-041111	4/11/2011	<13	U		1100			<80	U		2200			<31	U		1700			10			<7.7	U		<6.8	U	
		VMP-6-31.5-080411	8/4/2011	<9.7	U		1000			<59	U		2000			<23	U		1700			2	J		<5.7	U		<5	U	
		VMP-6-31.5-111011	11/10/2011	<15	U		570			<91	U		1500			<35	U		2000			<10	U		<8.8	U		<7.7	U	
		VMP-6-31.5-013112	1/31/2012	<6	U		680		J	<36	U		1400		J	<14	U		1300		J	<4.2	U		<3.5	U		<3.1	U	
		VMP-6-31.5-041212	4/12/2012	<0.8	U		8.6			<4.9	U		19			<1.9	U		68			0.16	J		<0.47	U		<0.41	U	
		VMP-6-31.5-071612	7/16/2012	<0.013	U		<0.0074	U		<0.077	U		0.019			<0.03	U		0.06			<0.0089	J	U	0.0055	J		<0.0065	U	
		VMP-6-31.5-101112	10/11/2012	<0.0098	U		<0.0058	U		<0.06	U		0.0017	J		<0.023	UJ	UJ	0.0094	J		<0.0069	U		0.0024	J		<0.0051	U	
	39 ft	VMP-6-39-041111	4/11/2011	<16	U		1200			<95	U		2300			<37	U		1700			12			<9.2	U		<8	U	
		VMP-6-39-013112	1/31/2012	<6	U		800			<36	U		1700		J	<14	U		1600		J	1.4	J	J	<3.5	U		<3.1	U	
		VMP-6-39-041212	4/12/2012	<0.59	U		21			<3.6	U		52			<1.4	U		100			0.6			<0.34	U		<0.3	U	
		VMP-6-39-071612	7/16/2012	<0.028	U		<0.016	U		<0.17	U		0.034			<0.064	U		0.098			0.0029	J		<0.016	U		<0.014	U	
		VMP-6-39-071612-Dup	7/16/2012	<0.028	U		<0.016	U		<0.17	U		0.033			<0.065	U		0.11			<0.02	U		<0.016	U		<0.014	U	
		VMP-6-39-101112	10/11/2012	<0.019	U		<0.011	U		<0.11	U		0.0021	J		<0.044	UJ	UJ	0.0059	J		<0.013	U		<0.011	U		<0.0097	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 600			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	<0.0092	U		0.0044	J		<0.056	U		0.016			<0.022	U					<0.0065	U		<0.0054	U		<0.0048	U	
		VMP-7-5-111910	11/19/2010	<0.0083	U		0.0039	J		<0.051	U		0.0047			<0.019	U					<0.0058	U		<0.0049	U		<0.0043	U	
		VMP-7-5-020711	2/7/2011	<0.009	U		0.0041	J		<0.055	U		0.0024	J		<0.021	U					<0.0063	U		<0.0053	U		<0.0046	U	
		VMP-7-5-040711	4/7/2011	<0.013	U		0.0074			<0.078	U		0.016			<0.03	U		0.019	J		<0.0089	U		<0.0074	U		<0.0066	U	
		VMP-7-5-080211	8/2/2011	<1.3	U		4.5			<7.7	U		12			<3	U		520			<0.89	U		<0.74	U		<0.65	U	
		VMP-7-5-111011	11/10/2011	<0.006	U		<0.0035	U		<0.036	U		<0.003	U		<0.014	U		<0.01	U		0.0018	J		0.0099			<0.0031	U	
		VMP-7-5-111011-DUP	11/10/2011	<0.0056	U		<0.0033	U		<0.034	U		<0.0028	U		<0.013	U		0.0076	J		0.0016	J		0.0084			<0.0029	U	
		VMP-7-5-013112	1/31/2012	<0.0061	U		0.00073	J		<0.037	U		<0.0031	J	U	0.00059	J		<0.01	U		0.0027	J		0.017			<0.0032	U	
		VMP-7-5-041212	4/12/2012	<0.0066	U		0.0078			<0.04	U		0.0046			<0.016	U		0.0049	J		0.04			0.11			<0.0034	U	
		VMP-7-5-073112	7/31/2012	<0.017	U		<0.01	U		<0.1	U		0.0031	J		<0.04	U		0.1			0.037			0.12			<0.0088	U	
		VMP-7-5-101012	10/10/2012	<0.01	U		<0.0061	U		<0.063	U		0.0012	J		<0.024	U		<0.017	U		<0.0073	U		<0.0061	U		<0.0053	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.2	U		<0.12	U		<1.2	U		0.035	J		<0.47	U					0.015	J		<0.12	U		<0.1	U	
		VMP-7-13.5-111910	11/19/2010	<1.4	U		4.9		J	<8.6	U		8.9		J	<3.3	U					<0.99	U		<0.82	U		<0.73	U	
		VMP-7-13.5-020711	2/7/2011	<0.0086	U		0.0011	J		<0.053	U		0.0013	J		<0.02	U					<0.0061	U		<0.005	U		<0.0044	U	
		VMP-7-13.5-040711	4/7/2011	<0.015	U		0.0064	J		<0.092	U		0.022			<0.035	U		0.024	J		<0.011	U		<0.0088	U		<0.0078	U	
		VMP-7-13.5-080311	8/3/2011	<1.7	U		<0.99	U		<10	U		2.7			<3.9	U		310			<1.2	U		<0.99	U		<0.87	U	
		VMP-7-13.5-111011	11/10/2011	<0.0055	U		0.026			<0.034	U		0.012			<0.013	U		0.8			0.0083			0.022			<0.0028	U	
		VMP-7-13.5-013112	1/31/2012	<0.078	U		<0.046	U		<0.48	U		1.1		J	<0.18	U		7.2		J	<0.055	U		<0.046	U		<0.04	U	
		VMP-7-13.5-013112-DUP	1/31/2012	<0.08	U		<0.047	U		<0.49	U		1		J	<0.19	U		6.9		J	<0.056	U		<0.047	U		<0.041	U	
		VMP-7-13.5-041212	4/12/2012	<0.0064	U		0.015			<0.039	U		0.022			<0.015	U		0.026		J	0.024			0.033			<0.0033	U	
		VMP-7-13.5-041212-DUP	4/12/2012	<0.0067	U		0.0086			<0.041	U		0.011			<0.016	U		0.49		J	0.026			0.036			<0.0035	U	
		VMP-7-13.5-072012	7/20/2012	<0.0065	U		0.0063			<0.04	U		0.00095	J		0.0013	J		<0.011	U		0.033			0.13			<0.0034	U	
		VMP-7-13.5-101012	10/10/2012	<0.0096	U		0.0027	J		<0.059	U		0.0035	J		<0.023	U		0.0033	J		<0.0068	U		<0.0056	U		<0.005	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<2.9	U		420		J	<18	U		420		J	<6.7	U					6		J	<1.7	U		<1.5	U	
		VMP-7-29.5-111910	11/19/2010	<4.3	U		300		J	<26	U		270			<10	U					4.8		J	<2.5	U		<2.2	U	
		VMP-7-29.5-020711	2/7/2011	<4.5	U		350			<28	U		320			<10	U					10			<2.6	U		<2.3	U	
		VMP-7-29.5-040711	4/7/2011	<1.1	U		220		J	<6.7	U		190		J	<2.6	U		380		J	3.4		J	<0.64	U		<0.56	U	
		VMP-7-29.5-080311	8/3/2011	<2.6	U		350			<16	U		360			<6.1	U		850			1.6	J		<1.5	U		<1.3	U	
		VMP-7-29.5-111111	11/11/2011	<5.1	U		110			<31	U		130			<12	U		500			<3.6	U		<3	U		<2.6	U	
		VMP-7-29.5-020112	2/1/2012	<1	U		150		J	<6.2	U		160		J	<2.4	U		360		J	0.54	J	J	<0.6	U		<0.53	U	
		VMP-7-29.5-041312	4/13/2012	<0.0064	U		0.012			<0.039	U		0.02			<0.015	U		0.21			0.018			0.024			<0.0033	J	U
		VMP-7-29.5-072012	7/20/2012	<0.0065	U		0.0043			<0.04	U		0.005			<0.015	U		<0.011	U		0.0052			0.025			<0.0034	U	
		VMP-7-29.5-072012-Dup	7/20/2012	<0.0065	U		0.0036	J		<0.04	U		0.0048			<0.015	U		<0.011	U		0.0061			0.027			<0.0034	U	
		VMP-7-29.5-101012	10/10/2012	<0.01	U		<0.0059	U		<0.062	U		0.0029	J		<0.024	UJ	UJ	0.0057	J		<0.0071	U		<0.0059	U		<0.0052	U	
	38 ft	VMP-7-38-020711	2/7/2011	<6	U		210			<37	U		280			<14	U					6.8			<3.5	U		<3.1	U	
		VMP-7-38-040711	4/7/2011	<1.5	U		110		J	<9.4	U		150		J	<3.6	U		500		J	0.56	J	J	<0.9	U		<0.79	U	
		VMP-7-38-020112	2/1/2012	<1.5	U		180		J	<9	U		180		J	<3.4	U		390		J	0.55	J	J	<0.86	U		<0.76	U	
		VMP-7-38-042512	4/25/2012	<0.0064	U		0.0096			<0.039	U		0.018		J	<0.015	U		0.043			0.019			0.047			<0.0033	U	
		VMP-7-38-042512-Dup	4/25/2012	<0.0064	U		0.01			<0.039	U		0.024		J	<0.015	U		0.058			0.02			0.047			<0.0033	U	
		VMP-7-38-101112	10/11/2012	<0.0094	U		<0.0055	U		<0.057	U		0.0017	J		<0.022	UJ	UJ	0.0033	J		<0.0066	U		0.003	J		<0.0048	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	<0.0094	U		0.0019	J		<0.057	U		0.0032	J		0.0029	J					<0.0066	U		<0.0055	U		0.00052	J	
		VMP-8-5-111810	11/17/2010	<0.0081	U		0.0025	J		<0.05	U		0.0019	J		<0.019	U					<0.0057	U		<0.0048	U		0.00055	J	
		VMP-8-5-021011	2/10/2011	<0.0086	U		<0.0051	U		<0.053	U		0.0011	J		<0.02	U					<0.0061	U		<0.005	U		<0.0044	U	
		VMP-8-5-040711	4/7/2011	<0.0096	U		<0.0056	U		<0.059	U		<0.0049	U		<0.023	U		0.0037	J		<0.0068	U		<0.0056	U		<0.005	U	
		VMP-8-5-072711	7/27/2011	<0.01	U		0.0021	J		<0.063	U		0.0026	J		0.0054	J		<0.017	U		0.05			0.24			<0.0053	U	
		VMP-8-5-110311	11/3/2011	<0.006	U		0.0026	J		<0.036	U		0.0033			0.0006	J		0.017			0.0028	J		0.015			<0.0031	U	
		VMP-8-5-012312	1/23/2012	<0.0074	U		0.0016	J		<0.045	U		0.0024	J		<0.017	U		0.0092	J		0.003	J		0.058			<0.0038	U	
		VMP-8-5-041012	4/10/2012	<0.0067	U		0.0064			<0.041	U		0.0073			<0.016	U		0.063			0.0017	J		<0.0039	U		<0.0034	U	
		VMP-8-5-071312	7/13/2012	<0.0056	U		<0.0033	U		<0.034	U		0.00072	J		<0.013	J	U	0.0022	J		<0.004	U		<0.0033	J	U	<0.0029	U	
		VMP-8-5-073112	7/31/2012	<0.0072	U		0.011			<0.044	U		0.002	J		0.0025	J		0.011	J		0.057			0.2			<0.0037	U	
		VMP-8-5-100412	10/4/2012	<0.0096	U		0.0019	J		0.0076	J		0.0026	J		<0.023	U		0.0031	J		<0.0068	U		<0.0056	U		<0.005	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.0092	U		0.0019	J		<0.056	U		0.003	J		<0.022	U		0.0028	J		<0.0065	U		<0.0054	U		<0.0048	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	<0.0084	U		0.0017	J		<0.052	U		0.0055			0.0013	J					<0.0059	U		<0.005	U		0.00039	J	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	<0.0086	U		0.0016	J		<0.053	U		0.0034	J		0.0017	J					<0.0061	U		<0.005	U		<0.0044	U	
		VMP-8-9.5-111810	11/17/2010	<0.0084	U		<0.005	U		<0.052	U		0.0017	J		<0.02	U					<0.0059	U		<0.005	U		0.00054	J	
		VMP-8-9.5-021011	2/10/2011	<0.0088	U		<0.0052	U		<0.054	U		<0.0044	U		<0.021	U					<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-8-9.5-040711	4/7/2011	<0.0096	U		<0.0056	U		<0.059	U		0.0012	J		<0.023	U		0.0031	J		<0.0068	U		<0.0056	U		<0.005	U	
		VMP-8-9.5-072711	7/27/2011	<0.0074	U		0.0039	J		<0.045	U		0.0048			0.0048	J		0.02			0.045			0.13			<0.0038	U	
		VMP-8-9.5-110311	11/3/2011	<0.0059	U		0.0021	J		<0.036	U		0.0018	J		0.00037	J		0.011			0.0014	J		0.0088			<0.003	U	
		VMP-8-9.5-012312	1/23/2012	<0.0071	U		0.005			<0.043	U		0.0064			<0.017	U		0.019			0.0026	J		0.0061			<0.0036	U	
		VMP-8-9.5-041012	4/10/2012	<0.0067	U		0.002	J		<0.041	U		0.012			<0.016	U		0.051			<0.0047	U		<0.0039	U		<0.0034	U	
		VMP-8-9.5-071312	7/13/2012	<0.0065	U		<0.0038	U		<0.04	U		<0.0033	U		<0.015	U		<0.011	U		<0.0046	U		<0.0038	U		<0.0034	U	
		VMP-8-9.5-071312-Dup	7/13/2012	<0.0062	U		<0.0037	U		<0.038	U		<0.0032	U		<0.015	U		<0.01	U		<0.0044	U		<0.0037	U		<0.0032	U	
		VMP-8-9.5-100412	10/4/2012	<0.01	U		0.0061	J		<0.065	U		0.0088			<0.025	U		0.024			<0.0074	U		<0.0062	U		<0.0055	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	<0.0092	U		0.0021	J		<0.056	U		0.0024	J		0.0011	J					<0.0065	U		<0.0054	U		0.00037	J	
		VMP-8-23.5-111910	11/19/2010	<0.0088	U		0.0015	J		<0.054	U		0.0018	J		<0.021	U					<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-8-23.5-021011	2/10/2011	<0.0094	U		<0.0055	U		<0.057	U		<0.0047	U		<0.022	U					<0.0066	U		<0.0055	U		<0.0048	U	
		VMP-8-23.5-040711	4/7/2011	<0.0088	U		<0.0052	U		<0.054	U		0.0027	J		<0.021	U		0.003	J		<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.014	U		<0.0082	U		<0.085	U		0.0028	J		<0.033	U		0.0049	J		<0.0098	U		<0.0082	U		0.00068	J	
		VMP-8-23.5-081011	8/10/2011	<0.0092	U		0.012			<0.056	U		0.033			0.0022	J		0.069			0.019			0.1			<0.0048	U	
		VMP-8-23.5-110611	11/6/2011	<0.0067	U		0.0013	J		<0.041	U		0.0028	J		0.0015	J		<0.011	U		0.0052			0.035			<0.0034	U	
		VMP-8-23.5-012312	1/23/2012	<0.0074	U		0.0023	J		<0.045	U		0.0023	J		0.00075	J		0.017			0.002	J		0.024			<0.0038	U	
		VMP-8-23.5-041012	4/10/2012	<0.0065	U		0.0022	J		<0.04	U		0.012			<0.015	U		0.062			0.00051	J		<0.0038	U		<0.0034	U	
		VMP-8-23.5-071312	7/13/2012	<0.0072	U		<0.0042	U		<0.044	U		<0.0036	U		<0.017	U		0.001	J		<0.0051	U		<0.0042	U		<0.0037	U	
		VMP-8-23.5-100412	10/4/2012	<0.01	U		0.0059			<0.062	U		0.0082			<0.024	U		0.015	J		<0.0071	U		<0.0059	U		<0.0052	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 600			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	<0.008	U		0.0055			<0.049	U		0.016			<0.019	U					<0.0056	U		<0.0047	U		<0.0041	U	
		VMP-9-5-111910	11/19/2010	<0.0083	U		0.0016	J		<0.051	U		0.0014	J		<0.019	U					<0.0058	U		<0.0049	U		<0.0043	U	
		VMP-9-5-020811	2/8/2011	<0.0077	U		<0.0045	U		<0.047	U		<0.0039	U		<0.018	U					<0.0054	U		<0.0045	U		<0.004	U	
		VMP-9-5-040611	4/6/2011	<0.021	U		<0.012	U		<0.13	U		0.0064	J		<0.05	U		0.013	J		<0.015	U		<0.012	U		<0.011	U	
		VMP-9-5-080211	8/2/2011	<0.41	U		<0.24	U		<2.5	U		<0.21	U		<0.97	U		6.1			0.06	J		0.32			<0.21	U	
		VMP-9-5-110411	11/4/2011	<0.0061	U		0.003	J		<0.037	U		0.0027	J		0.0013	J		0.0024	J		<0.0043	J	U	0.022			<0.0032	U	
		VMP-9-5-012612	1/26/2012	<0.0052	U		0.0078			<0.032	U		0.0049			<0.012	U		0.29			0.008			0.039			<0.0027	U	
		VMP-9-5-041112	4/11/2012	<0.0062	U		0.012			<0.038	U		0.018			<0.015	U		0.016			0.0015	J		<0.0037	U		<0.0032	U	
		VMP-9-5-071312	7/13/2012	<0.0067	U		0.0019	J		<0.041	U		0.0028	J		<0.016	J	U	0.009	J		0.017			0.17			<0.0034	U	
		VMP-9-5-101012	10/10/2012	<0.01	U		<0.0059	U		<0.062	U		<0.0051	U		<0.024	UJ	UJ	0.0021	J		<0.0071	U		<0.0059	U		<0.0052	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.18	U		<0.1	U		<1.1	U		<0.09	U		<0.42	U					<0.13	U		<0.1	U		<0.093	U	
		VMP-9-11.5-111910	11/19/2010	<0.52	U		<0.3	U		<3.2	U		<0.26	U		<1.2	U					<0.37	U		<0.3	U		<0.27	U	
		VMP-9-11.5-020911	2/9/2011	<0.0094	U		<0.0055	U		<0.057	U		<0.0047	U		<0.022	U					<0.0066	U		<0.0055	U		<0.0048	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0073	U		0.0025	J		<0.044	U		<0.0037	U		<0.017	U					<0.0051	U		<0.0043	U		<0.0038	U	
		VMP-9-11.5-040611	4/6/2011	<0.028	U		0.0035	J		<0.17	U		0.0079	J		<0.065	U		0.0091	J		<0.019	U		<0.016	U		<0.014	U	
		VMP-9-11.5-080211	8/2/2011	<0.62	U		<0.36	U		<3.8	U		<0.31	U		<1.4	U		54			<0.43	U		<0.36	U		<0.32	U	
		VMP-9-11.5-110411	11/4/2011	<0.0061	U		0.0021	J		<0.037	U		0.0029	J		0.001	J		0.066			<0.0043	J	U	0.035			<0.0032	U	
		VMP-9-11.5-012612	1/26/2012	<0.0054	U		0.0014	J		<0.033	U		0.0014	J		<0.013	U		0.084			0.0083			0.052			<0.0028	U	
		VMP-9-11.5-041112	4/11/2012	<0.0064	U		0.0037	J		<0.039	U		0.013			<0.015	U		0.011			<0.0045	U		<0.0037	U		<0.0033	U	
		VMP-9-11.5-071312	7/13/2012	<0.0072	U		0.002	J		<0.044	U		0.0013	J		<0.017	J	U	0.0036	J		0.035			0.17			<0.0037	U	
		VMP-9-11.5-101012	10/10/2012	<0.0096	U		0.0021	J		<0.059	U		0.0021	J		<0.023	UJ	UJ	0.0071	J		<0.0068	U		<0.0056	U		<0.005	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<1.4	U		1.1			<8.6	U		3.2			<3.3	U					0.13	J		<0.82	U		<0.73	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<1.5	U		1.1			<9.2	U		3.2			<3.5	U					0.13	J		<0.88	U		<0.78	U	
		VMP-9-25.5-111910	11/19/2010	<1.6	U		<0.94	U		<9.8	U		1.8			<3.8	U					<1.1	U		<0.94	U		<0.83	U	
		VMP-9-25.5-020911	2/9/2011	<0.88	U		<0.52	U		<5.4	U		0.24	J		<2.1	U					<0.62	U		<0.52	U		<0.45	U	
		VMP-9-25.5-040811	4/8/2011	<0.45	U		<0.26	U		<2.7	U		<0.22	U		<1	U		35			0.029	J		<0.26	U		<0.23	U	
		VMP-9-25.5-080211	8/2/2011	<0.98	U		0.82		J	<6	U		2.8		J	<2.3	U		460			<0.69	U		<0.58	U		<0.51	U	
		VMP-9-25.5-110711	11/7/2011	<0.87	U		<0.51	U		<5.3	U		0.62			<2	U		87			<0.61	U		<0.51	U		<0.45	U	
		VMP-9-25.5-110711-DUP	11/7/2011	<0.75	U		<0.44	U		<4.6	U		0.68			<1.8	U		87			<0.53	U		<0.44	U		<0.39	U	
		VMP-9-25.5-012612	1/26/2012	<0.22	U		<0.13	U		<1.4	U		1		J	<0.53	U		81		J	<0.16	U		<0.13	U		<0.12	U	
		VMP-9-25.5-041112	4/11/2012	<0.0064	U		0.012			<0.039	U		0.0085			<0.015	U		0.0095	J		0.0017	J		<0.0037	U		<0.0033	U	
		VMP-9-25.5-071312	7/13/2012	<0.0069	U		0.0031	J		<0.042	U		<0.0035	J	U	0.0046	J		<0.012	U		0.053			0.17			<0.0036	U	
		VMP-9-25.5-071312-Dup	7/13/2012	<0.0067	U		<0.0039	J	U	<0.041	U		0.0025	J		0.0036	J		0.0056	J		0.049			0.17			<0.0034	U	
		VMP-9-25.5-101012	10/10/2012	<0.0092	U		<0.0054	U		<0.056	U		<0.0046	U		<0.022	UJ	UJ	<0.016	U		<0.0065	U		<0.0054	U		<0.0048	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<1.5	U		<0.86	U		<8.9	U		1.9			<3.4	U					0.22	J		<0.86	U		<0.75	U	
		VMP-9-38.5-040811	4/8/2011	<1.9	U		<1.1	U		<12	U		<0.98	U		<4.6	U		230			0.2	J		<1.1	U		<1	U	
		VMP-9-38.5-012612	1/26/2012	<0.29	U		<0.17	U		<1.8	U		3.2		J	<0.69	U		91		J	0.045	J	J	<0.17	U		<0.15	U	
		VMP-9-38.5-041112	4/11/2012	<0.0056	U		0.0024	J		<0.034	U		0.013			<0.013	U		0.97			<0.004	U		<0.0033	U		<0.0029	U	
		VMP-9-38.5-071312	7/13/2012	<0.0074	U		0.0032	J		<0.045	U		0.0018	J		0.0051	J		0.0084	J		0.052			0.19			0.0075		
		VMP-9-38.5-101012	10/10/2012	<0.028	U		<0.016	U		<0.17	U		0.0052	J		<0.064	UJ	UJ	2.6			<0.019	U		<0.016	U		<0.014	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.01	U		0.0013	J		<0.062	U		0.0021	J		<0.024	U					<0.007	U		<0.005	U		<0.005	U	
		VMP-18-8.5-090710	9/7/2010	<0.009	U		0.0015	J	U	<0.055	J	U	0.0016	J		<0.021	U					<0.0063	J	U	<0.0053	U		0.00046	J	
		VMP-18-8.5-111910	11/19/2010	<0.0076	U		0.0026	J		<0.046	U		0.0031	J		<0.018	U					<0.0053	U		<0.0044	U		<0.0039	U	
		VMP-18-8.5-020711	2/7/2011	<0.0083	U		0.045		J	<0.051	U		0.056		J	<0.019	U					0.0014	J		<0.0049	U		<0.0043	U	
		VMP-18-8.5-020711-DUP	2/7/2011	<0.008	U		0.015		J	<0.049	U		0.026		J	<0.019	U					<0.0056	U		<0.0047	U		<0.0041	U	
		VMP-18-8.5-040711	4/7/2011	<0.009	U		0.012			<0.055	U		0.0049			<0.021	U		0.012	J		0.0064			<0.0053	U		<0.0046	U	
		VMP-18-8.5-072811	7/28/2011	<0.0096	U		<0.0056	U		<0.059	U		0.0018	J		0.0039	J		<0.016	U		0.036			0.1			<0.005	U	
		VMP-18-8.5-110711	11/7/2011	<0.0062	U		<0.0037	U		<0.038	U		<0.0032	U		0.00089	J		0.0026	J		0.0018	J		0.013			<0.0032	U	
		VMP-18-8.5-012312	1/23/2012	<0.0068	U		0.0012	J		<0.041	U		0.0012	J		0.00068	J		<0.011	U		0.0026	J		0.057			<0.0035	U	
		VMP-18-8.5-041012	4/10/2012	<0.007	U		0.0054			<0.043	U		0.0044			0.0025	J		0.0058	J		0.062			0.16			<0.0036	U	
		VMP-18-8.5-071212	7/12/2012	<0.0068	U		0.0028	J		<0.042	U		0.0017	J		<0.016	J	U	0.0079	J		0.025			0.19			<0.0035	U	
		VMP-18-8.5-100912	10/9/2012	<0.0092	U		0.0027	J		<0.056	U		0.002	J		<0.022	U		0.0056	J		<0.0065	U		<0.0054	U		<0.0048	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.009	U		0.0012	J		<0.058	U		0.0048			<0.022	U					<0.006	U		<0.005	U		<0.004	U	
		VMP-19-5-090110	9/1/2010	<0.009	U		0.088			<0.055	U	UJ	0.34			0.0038	J	J				<0.0063	U		<0.0053	U		<0.0046	U	
		VMP-19-5-111510	11/15/2010	<0.0096	U		<0.0056	U		<0.059	U		0.0033	J		<0.023	U					<0.0068	U		<0.0056	U		0.0007	J	
		VMP-19-5-020411	2/4/2011	<0.0084	U		<0.005	U		<0.052	J	U	0.0093			<0.02	U					<0.0059	U		<0.005	U		<0.0044	U	
		VMP-19-5-040711	4/7/2011	<0.0094	U		<0.0055	U		<0.058	U		<0.0048	U		<0.022	U		0.025			<0.0066	U		<0.0055	U		<0.0049	U	
		VMP-19-5-080911	8/9/2011	<0.01	U		0.036			<0.063	U		0.12		J	<0.024	U		0.21		J	0.045			0.16			<0.0053	U	
		VMP-19-5-080911-DUP	8/9/2011	<0.0098	U		0.032			<0.06	U		0.085		J	<0.023	U		0.14		J	0.044			0.16			<0.0051	U	
		VMP-19-5-110811	11/8/2011	<0.0068	U		<0.004	U		<0.042	U		0.00093	J		0.00042	J		0.0097	J		0.0012	J		0.0087			<0.0035	U	
		VMP-19-5-012612	1/26/2012	<0.006	U		0.0024	J		<0.036	U		0.0024	J		<0.014	U		0.0027	J		0.0039	J		0.0036			<0.0031	U	
		VMP-19-5-041012	4/10/2012	<0.0068	U		0.0037	J		<0.042	U		0.0014	J		0.0027	J		0.0078	J		0.052			0.14			<0.0035	U	
		VMP-19-5-071112	7/11/2012	<0.0078	U		0.0014	J		<0.048	U		0.00098	J		<0.018	J	U	0.0059	J		0.042			0.22			<0.004	U	
		VMP-19-5-100912	10/9/2012	<0.01	U		<0.0061	U		<0.063	U		0.00097	J		<0.024	U		<0.017	U		<0.0073	U		<0.0061	U		<0.0053	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0084	U		0.01			<0.052	U		0.016			<0.02	U					0.0032	J		<0.005	U		<0.0044	U	
		VMP-20-5-041511	4/15/2011	<0.093	U		0.24			<0.57	U		2.4			<0.22	U		22			<0.065	U		<0.054	U		<0.048	U	
		VMP-20-5-072511	7/25/2011	<0.0098	U		0.00085	J		<0.06	U		0.0013	J		<0.023	U	UJ	<0.017	U		0.026			0.11			<0.0051	U	
		VMP-20-5-110111	11/1/2011	<0.0056	U		0.0023	J		<0.034	U		0.0047			<0.013	U		0.0064	J		<0.004	J	U	0.019			<0.0029	U	
		VMP-20-5-012312	1/23/2012	<0.027	U		0.37			<0.16	U		1.3			<0.063	U		1.7			0.0021	J		0.022			<0.014	U	
		VMP-20-5-041012	4/10/2012	<0.0061	U		0.004			<0.037	U		0.0048			<0.014	U		0.0054	J		0.014			0.076			<0.0032	U	
		VMP-20-5-071112	7/11/2012	<0.0081	U		<0.0048	U		<0.05	U		<0.0041	U		<0.019	J	U	0.0013	J		<0.0057	U		<0.0048	U		<0.0042	U	
		VMP-20-5-073112	7/31/2012	<0.0068	U		0.0057			<0.042	U		0.0018	J		0.0029	J		<0.012	U		0.026			0.091			<0.0035	U	
		VMP-20-5-100412	10/4/2012	<0.01	U		<0.0059	U		<0.062	U		0.0012	J		<0.024	U		0.0032	J		<0.0071	U		<0.0059	U		<0.0052	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0084	U		0.0034	J		<0.052	U		0.0049			<0.02	U					0.0025	J		<0.005	U		<0.0044	U	
		VMP-20-10-041511	4/15/2011	<0.084	U		0.14			<0.52	U		0.81			<0.2	U		1.6			<0.059	U		<0.05	U		<0.044	U	
		VMP-20-10-072511	7/25/2011	<0.009	U		0.00069	J		<0.055	U		<0.0045	U		<0.021	U	UJ	<0.015	U		0.025			0.12			<0.0046	U	
		VMP-20-10-110111	11/1/2011	<0.006	U		<0.0035	U		<0.036	U		<0.003	U		<0.014	U		<0.01	U		<0.0042	J	U	0.012			<0.0031	U	
		VMP-20-10-012312	1/23/2012	<0.0062	U		0.0091			<0.038	U		0.006			<0.015	U		0.0066	J		0.0019	J		0.015			<0.0032	U	
		VMP-20-10-041012	4/10/2012	<0.006	U		0.0048			<0.036	U		0.004			<0.014	U		0.0056	J		0.022			0.12			<0.0031	U	
		VMP-20-10-071112	7/11/2012	<0.0068	U		<0.004	U		<0.042	U		<0.0034	U		<0.016	J	U	0.0048	J		<0.0048	U		<0.004	U		<0.0035	U	
		VMP-20-10-100412	10/4/2012	<0.0094	U		0.0017	J		<0.057	U		0.002	J		<0.022	U		0.0042	J		<0.0066	U		0.0011	J		<0.0048	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0084	U		0.0022	J		<0.051	U		0.0017	J		<0.02	U					<0.0059	U		<0.0049	U		<0.0043	U	
		VMP-20-25-041511	4/15/2011	<0.096	U		0.12			<0.59	U		0.84			<0.23	U		1			<0.068	U		<0.056	U		<0.05	U	
		VMP-20-25-072611	7/26/2011	<0.64	U		<0.38	U		<3.9	U		<0.32	U		<1.5	U	UJ	0.38	J		<0.45	U		<0.38	U		<0.33	U	
		VMP-20-25-110511	11/5/2011	<0.0059	U		<0.0034	U		<0.036	U		<0.003	J	U	0.00072	J		<0.0099	U		0.0027	J		0.016			<0.003	U	
		VMP-20-25-012312	1/23/2012	<0.0065	U		0.0012	J		<0.04	U		0.0018	J		<0.015	U		<0.011	U		0.0021	J		0.017			<0.0034	U	
		VMP-20-25-041012	4/10/2012	<0.0061	U		0.0058			<0.037	U		0.004			<0.014	U		0.0039	J		0.027			0.12			<0.0032	U	
		VMP-20-25-041012-Dup	4/10/2012	<0.0062	U		0.0033	J		<0.038	U		0.0038			0.0022	J		0.0073	J		0.028			0.12			<0.0032	U	
		VMP-20-25-071112	7/11/2012	<0.007	U		0.0032	J		<0.043	U		<0.0035	U		<0.016	U		0.0055	J		<0.0049	U		<0.0041	U		<0.0036	U	
		VMP-20-25-100412	10/4/2012	<0.01	U		<0.0061	U		<0.063	U		0.0012	J		<0.024	U		<0.017	U		<0.0073	U		<0.0061	U		<0.0053	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	<2.5	U		<1.5	U		<15	U		<1.3	U		<5.9	U		1.7	J		<1.8	U		<1.5	U		<1.3	U	

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE)		
																						600						3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<3.2	U		16			<20	U		150			<7.6	U					<2.3	U		<1.9	U		<1.7	U	
		VMP-21-5-020911-DUP	2/9/2011	<5.6	U		12			<34	U		120			<13	U					<3.9	U		<3.2	U		<2.9	U	
		VMP-21-5-041311	4/13/2011	<0.0092	U		0.63			<0.056	U		1.4			<0.022	U		0.74			0.0014	J		<0.0054	U		<0.0048	U	
		VMP-21-5-072511	7/25/2011	<0.0096	U		0.0025	J		<0.059	U		0.0019	J		0.0034	J	J	<0.016	U		0.04			0.17			<0.005	U	
		VMP-21-5-110111	11/1/2011	<0.008	U		0.0049			<0.049	U		0.0056			<0.019	U		0.0039	J		0.0064			0.024			<0.0041	U	
		VMP-21-5-012312	1/23/2012	<0.0068	U		0.0011	J		<0.041	U		0.001	J		<0.016	U		<0.011	U		0.0026	J		0.013			<0.0035	U	
		VMP-21-5-012312-DUP	1/23/2012	<0.0062	U		0.00068	J		<0.038	U		0.001	J		<0.015	U		<0.01	U		0.0024	J		0.013			<0.0032	U	
		VMP-21-5-042412	4/24/2012	<0.013	U		<0.0075	U		<0.078	U		0.0084			<0.03	U		0.35			0.013			0.042			<0.0066	U	
		VMP-21-5-071012	7/10/2012	<0.0074	U		0.0027	J		<0.045	U		0.0035	J		<0.017	J	U	0.0065	J		0.0027	J		<0.0043	J	U	<0.0038	U	
		VMP-21-5-100412	10/4/2012	<0.011	U		0.0022	J		<0.066	U		0.0012	J		<0.025	U		<0.018	U		0.021			0.11			<0.0056	U	
	10 ft	VMP-21-10-021011	2/10/2011	<2.9	U		14			<18	U		130			<6.9	U					<2.1	U		<1.7	U		<1.5	U	
		VMP-21-10-041311	4/13/2011	<0.37	U		<0.22	U		<2.3	U		0.16	J		<0.87	U		50			<0.26	U		<0.22	U		<0.19	U	
		VMP-21-10-072511	7/25/2011	<0.02	U		0.008	J		<0.12	U		0.0041	J		<0.048	U	UJ	0.087			0.027			0.045			<0.01	U	
		VMP-21-10-110111	11/1/2011	<0.006	U		<0.0035	U		<0.036	U		<0.003	U		<0.014	U		0.0055	J		<0.0042	J	U	0.021			<0.0031	U	
		VMP-21-10-012312	1/23/2012	<0.0068	U		0.0017	J		<0.041	U		0.0015	J		<0.016	U		<0.011	U		0.0021	J		0.016			<0.0035	U	
		VMP-21-10-040912	4/9/2012	<0.0061	U		0.022			<0.037	U		0.028			<0.014	U		1.2			0.0093			0.024			<0.0032	U	
		VMP-21-10-071012	7/10/2012	<0.007	U		<0.0041	U		<0.043	U		<0.0035	U		<0.016	U		0.0043	J		<0.0049	U		<0.0041	U		<0.0036	U	
		VMP-21-10-100412	10/4/2012	<0.0098	U		0.0044	J		<0.06	U		0.002	J		<0.023	U		0.0075	J		0.025			0.15			<0.0051	U	
	25 ft	VMP-21-25-021011	2/10/2011	<8.1	U		380			<50	U		1200			<19	U					<5.7	U		<4.8	U		<4.2	U	
		VMP-21-25-041411	4/14/2011	<28	U		310			<170	U		820			<67	U		9200			<20	U		<17	U		<15	U	
		VMP-21-25-041411-DUP	4/14/2011	<28	U		320			<170	U		820			<67	U		9200			<20	U		<17	U		<15	U	
		VMP-21-25-072611	7/26/2011	<9.2	U		230			<56	U		680			<22	U	UJ				<6.5	U		<5.4	U		<4.8	U	
		VMP-21-25-110511	11/5/2011	<5.9	U		3.4	J		<36	U		5.8			<14	U		770			<4.1	U		<3.4	U		<3	U	
		VMP-21-25-012412	1/24/2012	<0.081	U		<0.048	U		<0.49	U		<0.041	U		<0.19	U		0.35			<0.057	U		<0.048	U		<0.042	U	
		VMP-21-25-040912	4/9/2012	<0.0064	U		0.02			<0.039	U		0.028			<0.015	U		0.12			0.01			0.024			<0.0033	U	
		VMP-21-25-071112	7/11/2012	<0.0064	U		0.0019	J		<0.039	U		<0.0032	U		<0.015	U		0.012			<0.0045	J	U	0.0035	J		<0.0033	U	
		VMP-21-25-100412	10/4/2012	<0.01	U		0.0021	J		<0.062	U		0.0013	J		<0.024	U		0.013	J		0.02			0.095			<0.0052	U	
	33 ft	VMP-21-33-021011	2/10/2011	<8.1	U		530			<50	U		1400			<19	U					<5.7	U		<4.8	U		<4.2	U	
		VMP-21-33-041411	4/14/2011	<28	U		330			<170	U		880			<64	U		9500			<19	U		<16	U		<14	U	
		VMP-21-33-110511	11/5/2011	<1.3	U		0.34	J		<8.1	U		0.62	J		<3.1	U		93			<0.94	U		<0.78	U		<0.69	U	
		VMP-21-33-012412	1/24/2012	<0.19	U		<0.11	U		<1.2	U		0.62		J	<0.45	U		3.9		J	<0.13	U		<0.11	U		<0.099	U	
		VMP-21-33-042412	4/24/2012	<0.0065	U		<0.0038	U		<0.04	U		0.0072			<0.015	U		0.29			0.0091			0.033			<0.0034	U	
		VMP-21-33-071112	7/11/2012	<0.0068	U		<0.004	U		<0.042	U		<0.0034	U		<0.016	J	U	0.0091	J		<0.0048	U		<0.004	U		<0.0035	U	
		VMP-21-33-100412	10/4/2012	<0.0098	U		0.0044	J		<0.06	U		0.0025	J		<0.023	U		0.012	J		0.02			0.093			<0.0051	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.18	U		<0.1	U		<1.1	U		<0.09	U		<0.42	U					<0.13	U		<0.1	U		<0.093	U	
		VMP-22-5-041811	4/18/2011	<0.088	U		<0.052	U		<0.54	U		<0.044	U		<0.21	U		0.13	J		<0.062	U		<0.052	U		<0.045	U	
		VMP-22-5-072611	7/26/2011	<0.01	U		0.017			<0.063	J	U	0.059			<0.024	U	UJ	0.67			0.023			0.12			<0.0053	U	
		VMP-22-5-110111	11/1/2011	<0.0059	U		<0.0034	U		<0.036	U		<0.003	U		<0.014	U		<0.0099	U		<0.0041	J	U	0.032			<0.003	U	
		VMP-22-5-012412	1/24/2012	<0.0062	U		0.28		J	<0.038	U		0.7		J	<0.014	U		0.38		J	0.0018	J	J	0.014		J	<0.0032	U	
		VMP-22-5-040912	4/9/2012	<0.0068	U		0.018			<0.042	U		0.05			<0.016	U		0.038			<0.0048	U		0.0025	J		<0.0035	U	
		VMP-22-5-070912	7/9/2012	<0.0076	U		0.003	J		<0.046	U		<0.0038	U		<0.018	U		0.0017	J		<0.0053	U		<0.0044	U		<0.0039	U	
		VMP-22-5-100312	10/3/2012	<0.0088	U		<0.0052	U		<0.054	U		0.0023	J		<0.021	U		0.0047	J		<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-22-5-100312-Dup	10/3/2012	<0.008	U		0.0036	J		<0.049	U		0.0062			0.0018	J		0.01	J		<0.0056	U		<0.0047	U		<0.0041	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.085	U		<0.05	U		<0.52	U		0.084			<0.2	U					<0.06	U		<0.05	U		<0.044	U	
		VMP-22-10-041811	4/18/2011	<0.091	U		<0.053	U		<0.56	U		<0.046	U		<0.21	U		0.12	J		<0.064	U		<0.053	U		<0.047	U	
		VMP-22-10-072611	7/26/2011	<0.01	U		0.0051	J		<0.065	U		<0.0053	U	UJ	<0.025	U	UJ	0.053			0.027			0.079			<0.0055	U	
		VMP-22-10-072611-DUP	7/26/2011	<0.012	U		<0.0073	U		<0.076	U		0.022		J	0.0057	J	J	0.17			0.025			0.084			<0.0064	U	
		VMP-22-10-110211	11/2/2011	<0.006	U		<0.0035	U		<0.036	U		<0.003	U		<0.014	U		<0.01	U		<0.0042	J	U	0.022			<0.0031	U	
		VMP-22-10-012412	1/24/2012	<0.0068	U		0.0028	J		<0.041	U		0.0019	J		<0.016	U		<0.011	U		0.0038	J		0.081			<0.0035	U	
		VMP-22-10-040912	4/9/2012	<0.0067	U		0.01			<0.041	U		0.032			<0.016	U		0.025			<0.0047	U		<0.004	U		<0.0035	U	
		VMP-22-10-070912	7/9/2012	<0.0076	U		<0.0044	U		<0.046	U		<0.0038	U		<0.018	U		<0.013	U		<0.0053	U		<0.0044	U		<0.0039	U	
		VMP-22-10-070912-Dup	7/9/2012	<0.0074	U		0.0028	J		<0.045	U		0.0015	J		<0.017	U		0.00098	J		<0.0052	U		<0.0043	U		<0.0038	U	
		VMP-22-10-100312	10/3/2012	<0.0084	U		0.0031	J		<0.052	U		0.0047			<0.02	U		0.014	J		<0.0059	U		<0.005	U		<0.0044	U	
	18 ft	VMP-22-18-021111	2/11/2011	<1.5	U		<0.87	U		<9.1	U		17			<3.5	U					<1	U		<0.87	U		<0.77	U	
		VMP-22-18-041811	4/18/2011	<6.3	U		3.9			<38	U		31			<15	U		1900			<4.4	U		<3.7	U		<3.2	U	
		VMP-22-18-072611	7/26/2011	<3.2	U		<1.9	U		<20	U		26			<7.5	U	UJ	1300			<2.3	U		<1.9	U		<1.6	U	
		VMP-22-18-110511	11/5/2011	<0.0064	U		0.00074	J		<0.039	U		<0.0032	J	U	0.00084	J		0.012			0.002	J		0.016			<0.0033	U	
		VMP-22-18-012412	1/24/2012	<0.059	U		<0.034	U		<0.36	U		<0.03	U		<0.14	U		0.34		J	<0.041	U		<0.034	U		<0.03	U	
		VMP-22-18-040912	4/9/2012	<0.007	U		0.0061			<0.043	U		0.018			<0.016	U		0.0082	J		<0.0049	U		0.002	J		<0.0036	U	
		VMP-22-18-070912	7/9/2012	<0.0074	U		<0.0043	U		<0.045	U		<0.0037	U		<0.017	U		0.002	J		<0.0052	U		<0.0043	U		<0.0038	U	
		VMP-22-18-100412	10/4/2012	<0.01	U		<0.0059	U		<0.062	U		<0.0051	U		<0.024	U		0.0053	J		<0.0071	U		<0.0059	U		<0.0052	U	
	38 ft	VMP-22-38-041811	4/18/2011	<19	U		55			<120	U		390			<45	U		6100			<14	U		<11	U		<10	U	
		VMP-22-38-012512	1/25/2012	<0.059	U		0.026	J		<0.36	U		0.033			<0.14	U		0.73			0.0051	J		<0.034	U		<0.03	U	
		VMP-22-38-040912	4/9/2012	<0.0068	U		0.0075			<0.042	U		0.03			<0.016	U		0.17			<0.0048	U		<0.004	U		<0.0035	U	
		VMP-22-38-070912	7/9/2012	<0.0072	U		0.0013	J		<0.044	U		0.0011	J		<0.017	U		0.007	J		<0.0051	U		<0.0042	U		<0.0037	U	
		VMP-22-38-100412	10/4/2012	<0.01	U		0.0018	J		<0.065	U		0.0025	J		<0.025	U		0.0083	J		<0.0074	U		<0.0062	U		<0.0055	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0092	U		0.0049	J		<0.056	U		0.0087			<0.022	U					<0.0065	U		<0.0054	U		<0.0048	U	
		VMP-23-5-042111	4/21/2011	<0.08	U		<0.047	U		<0.49	U		0.013	J		<0.47	U		0.044	J		<0.056	U		<0.47	U		<0.041	U	
		VMP-23-5-072711	7/27/2011	<0.0092	U		0.0083			<0.056	U		0.011			0.006	J		0.14			0.037			0.25			<0.0048	U	
		VMP-23-5-110211	11/2/2011	<0.0065	U		<0.0038	U		<0.04	U		0.0012	J		0.001	J		<0.011	U		0.005			0.034			<0.0034	U	
		VMP-23-5-012512	1/25/2012	<0.0055	U		0.0019	J		<0.034	U		0.0024	J		<0.013	U		0.0045	J		0.0033	J		0.017			<0.0028	U	
		VMP-23-5-040912	4/9/2012	<0.0067	U		0.0033	J		<0.041	U		0.011			<0.016	U		0.0021	J		0.012			0.041			<0.0034	U	
		VMP-23-5-070912	7/9/2012	<0.006	U		0.0023	J		<0.036	U		0.0048			<0.014	U		0.023			<0.0042	U		<0.0035	J	U	<0.0031	U	
		VMP-23-5-100312	10/3/2012	<0.01	U		<0.0059	U		<0.062	U		0.0016	J		<0.024	U		0.0037	J		<0.0071	U		<0.0059	U		<0.0052	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0095	U		0.0088			<0.058	J	U	0.013			<0.022	U					<0.0067	U		<0.0056	U		<0.0049	U	
		VMP-23-10-042111	4/21/2011	<0.096	U		1.5			<0.59	U		3.4			<0.56	U		3.5			<0.068	U		<0.56	U		<0.05	U	
		VMP-23-10-072711	7/27/2011	<0.0088	U		<0.0052	U		<0.054	U		<0.0044	U		<0.021	U		<0.015	U		<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-23-10-110211	11/2/2011	<0.0064	U		<0.0037	U		<0.039	U		0.0014	J		0.0016	J		<0.011	U		0.0074			0.064			<0.0033	U	
		VMP-23-10-012512	1/25/2012	<0.0054	U		0.2			<0.033	U		0.44			<0.013	U		0.17			0.0024	J		0.01			<0.0028	U	
		VMP-23-10-040912	4/9/2012	<0.0068	U		<0.004	U		<0.042	U		0.0056			<0.016	U		0.0023	J	J	0.015			0.024			<0.0035	U	
		VMP-23-10-040912-Dup	4/9/2012	<0.0068	U		0.0019	J		<0.042	U		0.0079			<0.016	U		0.045		J	0.015			0.024			<0.0035	U	
		VMP-23-10-070912	7/9/2012	<0.0054	U		<0.0032	U		<0.033	U		<0.0027	U		<0.013	U		0.0043	J		<0.0038	J	U	<0.0032	U		<0.0028	U	
		VMP-23-10-100312	10/3/2012	<0.011	U		0.0018	J		<0.066	U		0.0032	J		<0.025	U		0.0082	J		<0.0076	U		<0.0064	U		<0.0056	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0088	U		0.0021	J		<0.054	U		0.0035	J		<0.021	U					<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-23-25-042111	4/21/2011	<0.09	U		0.68			<0.55	U		4.2			<0.53	U		15			<0.063	U		<0.53	U		<0.046	U	
		VMP-23-25-072711	7/27/2011	<0.01	U		0.0034	J		0.0054	J		0.0031	J		<0.024	U		<0.017	U		0.024			0.12			<0.0052	U	
		VMP-23-25-110511	11/5/2011	<0.0064	U		0.0015	J		<0.039	U		<0.0032	J	U	0.0008	J		0.0052	J		0.0024	J		0.018			<0.0033	U	
		VMP-23-25-012512	1/25/2012	<0.0057	U		0.16			<0.035	U		0.3			<0.013	U		0.06			0.0017	J		0.048			<0.003	U	
		VMP-23-25-040912	4/9/2012	<0.0067	U		0.0044			<0.041	U		0.023			<0.016	U		5.2	E	J	0.024			0.073			<0.0034	U	
		VMP-23-25-071012	7/10/2012	<0.0085	U		<0.005	U		<0.052	U		0.0019	J		<0.02	U		0.0078	J		<0.006	J	U	<0.005	J	U	<0.0044	U	
		VMP-23-25-100312	10/3/2012	<0.01	U		<0.0062	U		<0.065	U		0.0019	J		<0.025	U		0.0074	J		<0.0074	U		<0.0062	U		<0.0055	U	
	40 ft	VMP-23-40-071012	7/10/2012	<0.0072	U		<0.0042	U		<0.044	U		0.0023	J		<0.017	J	U	0.023			<0.0051	J	U	<0.0042	J	U	<0.0037	U	
		VMP-23-40-100312	10/3/2012	<0.0098	U		0.0017	J		<0.06	U		0.0032	J		<0.023	U		0.0055	J		<0.0069	U		<0.0058	U		<0.0051	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 600			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0098	U		0.004	J		<0.06	U		0.0099			<0.023	U					<0.0069	J	U	<0.0058	U		<0.0051	U	
		VMP-24-5-040811	4/8/2011	<0.1	U		0.18			<0.64	U		0.94			<0.25	U		11			<0.074	U		<0.062	U		<0.054	U	
		VMP-24-5-072811	7/28/2011	<0.0098	U		0.0054	J		<0.06	U		0.011			0.0051	J		0.063			0.029			0.071			<0.0051	U	
		VMP-24-5-110211	11/2/2011	<0.0065	U		0.0017	J		<0.04	U		0.0038			0.00092	J		0.0077	J		0.0058			0.024		J	<0.0034	U	
		VMP-24-5-110211-DUP	11/2/2011	<0.0091	U		<0.0053	U		<0.055	U		0.0069			<0.021	U		0.015	J		0.0061	J		0.012		J	<0.0047	U	
		VMP-24-5-012512	1/25/2012	<0.0056	U		<0.0033	U		<0.034	U		<0.0028	U		<0.013	U		0.0037	J		0.0044			0.018			<0.0029	U	
		VMP-24-5-040912	4/9/2012	<0.0067	U		0.0027	J		<0.041	U		0.017			<0.016	U		0.012			0.032			0.054			<0.0034	U	
		VMP-24-5-071212	7/12/2012	<0.0064	U		0.0022	J		<0.039	U		0.0028	J		<0.015	U		0.0092	J		0.019			0.074			<0.0033	U	
		VMP-24-5-101912	10/19/2012	<0.0099	U		<0.0058	U		<0.06	U		0.0033	J		<0.023	U		0.015	J		<0.007	U		<0.0058	U		<0.0051	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0094	U		<0.0055	U		<0.057	U		0.18			<0.022	U					<0.0066	J	U	<0.0055	U		<0.0048	U	
		VMP-24-10-041111	4/11/2011	<0.018	U		0.055			<0.11	U		0.19			<0.041	U		1			<0.012	U		<0.01	U		0.00079	J	
		VMP-24-10-072811	7/28/2011	<0.0096	U		0.0039	J		<0.059	U		0.0031	J		0.0047	J		0.046			0.033			0.1			<0.005	U	
		VMP-24-10-110211	11/2/2011	<0.0057	U		<0.0034	U		<0.035	U		<0.0029	U		0.0013	J		<0.0097	U		<0.0044		U	0.028			<0.003	U	
		VMP-24-10-012512	1/25/2012	<0.0054	U		0.00083	J		<0.033	U		<0.0027	U		<0.013	U		0.0015	J		0.0037	J		0.013			<0.0028	U	
		VMP-24-10-041012	4/10/2012	<0.0064	U		0.0023	J		<0.039	U		0.002	J		<0.015	U		0.071			<0.0045	U		<0.0037	U		<0.0033	U	
		VMP-24-10-071212	7/12/2012	<0.0074	U		<0.0043	U		<0.045	U		<0.0037	U		<0.017	J	U	0.0051	J		0.038			0.16			<0.0038	U	
		VMP-24-10-100912	10/9/2012	<0.0092	U		<0.0054	U		<0.056	U		0.00099	J		<0.022	U		0.0071	J		<0.0065	U		<0.0054	U		<0.0048	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0094	U		0.053			<0.057	U		0.11			<0.022	U					<0.0066	J	U	<0.0055	U		<0.0048	U	
		VMP-24-22-041111	4/11/2011	<0.0088	U		<0.0052	U		<0.054	U		0.0018	J		<0.021	U		0.0062	J		<0.0062	U		<0.0052	U		<0.0045	U	
		VMP-24-22-072811	7/28/2011	<0.0088	U		<0.0052	U		<0.054	U		0.00091	J		<0.021	U		<0.015	U		0.019			0.042			<0.0045	U	
		VMP-24-22-072811-Dup	7/28/2011	<0.01	U		<0.0059	U		<0.062	U		0.00098	J		<0.024	U		<0.017	U		0.018			0.041			<0.0052	U	
		VMP-24-22-110611	11/6/2011	<0.0061	U		0.0021	J		<0.037	U		0.0027	J		<0.014	U		0.08			0.0028	J		0.021			<0.0032	U	
		VMP-24-22-012512	1/25/2012	<0.0057	U		<0.0034	U		<0.035	U		<0.0029	U		<0.013	U		<0.0097	U		0.005			0.018			<0.003	U	
		VMP-24-22-041012	4/10/2012	<0.0062	U		0.0074			0.012	J		0.015			<0.015	U		0.11			<0.0044	U		0.0018	J		<0.0032	U	
		VMP-24-22-071212	7/12/2012	<0.0076	U		0.0016	J		<0.046	U		0.0019	J		<0.018	J	U	0.0052	J		0.023			0.1			<0.0039	U	
		VMP-24-22-100912	10/9/2012	<0.0094	U		<0.0055	U		<0.057	U		0.0011	J		<0.022	U		<0.016	U		<0.0066	U		<0.0055	U		<0.0048	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0094	U		0.0022	J		<0.057	U		0.0018	J		<0.022	U					<0.0066	U		<0.0055	U		<0.0048	U	
		VMP-24-34-041111	4/11/2011	<0.0084	U		<0.005	U		<0.052	U		0.0016	J		<0.02	U		0.0049	J		<0.0059	U		<0.005	U		0.00059	J	
		VMP-24-34-072811	7/28/2011	<0.0074	U		0.0016	J		<0.045	U		0.0019	J		<0.017	U		<0.012	U		0.016			0.053			<0.0038	U	
		VMP-24-34-110611	11/6/2011	<0.0048	U		0.0017	J		<0.029	U		<0.0024		U	0.00049	J		0.012			0.0016	J		0.012			<0.0024	U	
		VMP-24-34-012512	1/25/2012	<0.0059	U		<0.0034	U		<0.036	U		<0.003	U		<0.014	U		0.0029	J		0.0063			0.035			<0.003	U	
		VMP-24-34-041012	4/10/2012	<0.0065	U		0.012			<0.04	U		0.0065			<0.015	U		0.013			0.016			0.045			<0.0034	U	
		VMP-24-34-071212	7/12/2012	<0.0062	U		0.0023	J		<0.038	U		0.0028	J		0.0022	J		0.007	J		0.024			0.12			<0.0032	U	
		VMP-24-34-100912	10/9/2012	<0.0096	U		0.003	J		<0.059	U		0.0034	J		<0.023	U		0.013	J		<0.0068	U		<0.0056	U		<0.005	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	<0.0067	U		0.0026	J		<0.041	U		0.0015	J		<0.016	U		0.0029	J		0.021			0.079			<0.0034	U	
		VMP-31-5-072012	7/20/2012	<0.0067	U		<0.0039	U		<0.041	U		<0.0034	U		0.0016	J		<0.011	U		0.0022	J		0.017			<0.0034	U	
		VMP-31-5-102612	10/26/2012	<0.0096	U		0.011			<0.059	U		0.021			<0.023	U		0.2			0.026			0.09			<0.005	U	
	10 ft	VMP-31-10-042512	4/25/2012	<0.0089	U		0.01			<0.054	U		0.021			<0.021	U		0.13			0.019			0.072			<0.0046	U	
		VMP-31-10-072612	7/26/2012	<0.0068	U		0.0037	J		<0.042	U		0.0013	J		<0.016	U		<0.012	U		0.04			0.1			<0.0035	U	
		VMP-31-10-102612	10/26/2012	<0.01	U		<0.0061	U		<0.063	U		0.0019	J		<0.024	U		0.057			0.02			0.11			<0.0053	U	
	20 ft	VMP-31-20-101912	10/19/2012	<9.6	U		<5.6	U		<59	U		2	J		<23	U		25			<6.8	U		<5.6	U		<5	U	
	30 ft	VMP-31-30-042512	4/25/2012	<3.4	U		16			<21	U		180			<8	U		1100			0.66	J		<2	U		<1.8	U	
		VMP-31-30-042512-Dup	4/25/2012	<3.4	U		19			<21	U		210			<8	U		1200			0.75	J		<2	U		<1.8	U	
		VMP-31-30-072012	7/20/2012	<0.67	U		<0.39	U		<4.1	U		2.6			<1.6	U		46			<0.47	U		<0.39	U		<0.34	U	
		VMP-31-30-101912	10/19/2012	<0.6	U		<0.35	U		<3.7	U		0.28	J		<1.4	U		34			<0.42	U		<0.35	U		<0.31	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	<0.0065	U		0.0034	J		<0.04	U		0.0029	J		<0.015	U		<0.011	U		0.026			0.11			<0.0034	U	
		VMP-32-5-072012	7/20/2012	<0.0059	U		0.0031	J		<0.036	U		0.0021	J		0.00074	J		<0.0099	U		0.00057	J		0.0029	J		<0.003	U	
		VMP-32-5-101812	10/18/2012	<0.011	U		0.022			<0.068	U		0.01			<0.026	U		0.014	J		0.0015	J		<0.0065	U		<0.0058	U	
	10 ft	VMP-32-10-041612	4/16/2012	<0.006	U		0.0015	J		<0.036	U		0.24			<0.014	U		0.025			0.018			0.056			<0.0031	U	
		VMP-32-10-072012	7/20/2012	<0.0068	U		0.0023	J		<0.042	U		0.0017	J		0.0012	J		<0.012	U		<0.0048	U		0.0014	J		<0.0035	U	
		VMP-32-10-101812	10/18/2012	<0.01	U		0.012			<0.063	U		0.0056			<0.024	U		0.02			<0.0073	U		<0.0061	U		<0.0053	U	
	20 ft	VMP-32-20-041612	4/16/2012	<0.14	U		0.068	J		<0.84	U		0.07			<0.32	U		0.24			0.016	J		0.079	J		<0.071	UJ	UJ
		VMP-32-20-072012	7/20/2012	<0.0067	U		<0.0039	U		<0.041	U		<0.0034	U		0.0011	J		<0.011	U		<0.0047	U		0.0014	J		<0.0034	U	
		VMP-32-20-101812	10/18/2012	<0.0096	U		0.0094			<0.059	U		0.0039	J		<0.023	U		0.0033	J		0.0043	J		0.012			<0.005	U	
	30 ft	VMP-32-30-041612	4/16/2012	<3.3	U		400			<20	U		1100			<7.7	U		3700			0.49	J		<1.9	U		<1.7	U	
		VMP-32-30-072012	7/20/2012	<6.7	U		230			<41	U		470			<16	U		1500			<4.7	U		<4	U		<3.5	U	
		VMP-32-30-101812	10/18/2012	<0.38	U		<0.22	U		<2.3	U		0.16	J		<0.9	U		1.7			<0.27	U		<0.22	U		<0.2	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	<0.006	U		0.026			<0.036	U		0.051		J	<0.014	U		0.036			0.026			0.2			<0.0031	UJ	UJ
		VMP-42-10-041812-Dup	4/18/2012	<0.0061	U		0.02			<0.037	U		0.02		J	<0.014	U		0.024			0.025			0.2			<0.0032	UJ	UJ
		VMP-42-10-071912	7/19/2012	<0.0067	U		0.0076			<0.041	U		0.0065			0.0027	J		0.016			0.026			0.14			<0.0034	U	
		VMP-42-10-101212	10/12/2012	<0.011	U		<0.0063	U		<0.066	U		<0.0054	U		<0.025	U		<0.018	U		0.0044	J		0.06			<0.0056	U	
	20 ft	VMP-42-20-041812	4/18/2012	<3.1	U		<1.8	U		<19	U		9.3			<7.3	U		340			<2.2	U		<1.8	U		<1.6	UJ	UJ
		VMP-42-20-071912	7/19/2012	<0.0065	U		0.039			<0.04	U		0.03			<0.015	U		0.022			0.022			0.11			<0.0034	U	
		VMP-42-20-101212	10/12/2012	<0.0095	U		<0.0056	U		<0.058	U		<0.0048	U		<0.022	U		0.0035	J		<0.0067	U		0.0054	J		<0.0049	U	
		VMP-42-20-101212-Dup	10/12/2012	<0.0096	U		<0.0056	U		<0.059	U		0.0018	J		<0.023	U		0.03			<0.0068	U		0.0054	J		<0.005	U	
	30 ft	VMP-42-30-041912	4/19/2012	<6.5	U		<3.8	U		<40	U		51			<15	U		1700			<4.6	U		<3.8	U		<3.4	U	
		VMP-42-30-071912	7/19/2012	<0.0061	U		<0.0036	U		<0.037	U		0.077		J	<0.014	U		55			0.036		J	0.2		J	<0.0032	U	
		VMP-42-30-101212	10/12/2012	<0.01	U		0.0036	J		<0.062	U		0.06			<0.024	U		0.42			<0.0071	U		0.0094			<0.0052	U	
		VMP-42-30-101212-Dup	10/12/2012	<0.01	U		0.0031	J		<0.062	U		0.057			<0.024	U		0.4			<0.0071	U		0.01			<0.0052	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	<0.0068	U		0.019			<0.042	U		0.03			0.0035	J		0.02			0.029			0.22			<0.0035	UJ	UJ
		VMP-43-10-071912	7/19/2012	<0.013	U		0.024			<0.08	U		0.021			0.0039	J		0.014	J		0.03			0.14			<0.0067	U	
		VMP-43-10-101612	10/16/2012	<0.011	U		<0.0065	U		<0.068	U		<0.0056	U		<0.026	U		0.0017	J		0.0042	J		0.0089			<0.0058	U	
	20 ft	VMP-43-20-041612	4/16/2012	<0.067	U		0.24			<0.41	U		1.9			<0.16	U		21			0.021	J		0.068			<0.034	U	
		VMP-43-20-071912	7/19/2012	<0.024	U		0.0063	J		<0.15	U		0.024			<0.056	U		0.69			0.027			0.14			<0.012	U	
		VMP-43-20-101812	10/18/2012	<0.0092	U		<0.0054	U		<0.056	U		<0.0046	U		<0.022	U		0.034			0.0038	J		0.0072			<0.0048	U	
	30 ft	VMP-43-30-042312	4/23/2012	<0.061	U		<0.036	U		<0.37	U		0.12			<0.14	U		0.14			0.02	J		0.12			<0.032	U	
		VMP-43-30-071912	7/19/2012	<0.0067	U		0.013			<0.041	U		0.015			0.0036	J		0.02			0.016			0.087			<0.0034	U	
		VMP-43-30-101812	10/18/2012	<0.0096	U		<0.0056	U		<0.059	U		0.0046	J		<0.023	U		0.032			0.00086	J		0.002	J		<0.005	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<3.2	U		39			<20	U		86			<7.5	U		610			<2.2	U		<1.9	U		<1.6	U	
		VMP-44-10-072012	7/20/2012	<1.1	U		73		J	<6.5	U		120		J	<2.5	U		300		J	<0.75	U		<0.63	U		<0.55	U	
		VMP-44-10-081012	8/10/2012	<0.64	U		61		J	<3.9	U		110		J	<1.5	U		250		J	0.076	J	J	<0.37	U		<0.33	U	
		VMP-44-10-101212	10/12/2012	<2	U		7.8			<12	U		10			<4.6	U		11			<1.4	U		<1.2	U		0.5	J	
	20 ft	VMP-44-20-041912	4/19/2012	<0.7	U		110			<4.3	U		270			<1.6	U		580			0.2	J		<0.41	U		<0.36	U	
		VMP-44-20-072512	7/25/2012	<1.2	U		100		J	<7.3	U		250		J	<2.8	U		500			<0.84	U		<0.7	U		<0.62	U	
		VMP-44-20-101212	10/12/2012	<4	U		1.7	J		<24	U		21			<9.3	U		180			<2.8	U		<2.3	U		0.85	J	
	30 ft	VMP-44-30-041912	4/19/2012	<0.41	U		3.3			<2.5	U		16			<0.96	U		140			0.19	J		0.48			<0.21	U	
		VMP-44-30-072512	7/25/2012	<0.068	U		0.94			<0.42	U		3.3			<0.16	U		11			0.077			<0.04	U		<0.035	U	
		VMP-44-30-072512-Dup	7/25/2012	<0.068	U		0.96			<0.42	U		3.3			<0.16	U		12			0.08			<0.04	U		<0.035	U	
		VMP-44-30-101512	10/15/2012	<0.42	U		0.63			<2.6	U		4.8			<0.99	U		40			<0.3	U		<0.25	U		<0.22	U	
		VMP-44-30-101512-Dup	10/15/2012	<0.39	U		0.6			<2.4	U		4.7			<0.92	U		39			<0.28	U		<0.23	U		<0.2	U	

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TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE)		
																						600						3400		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	<0.0064	U		0.0022	J		<0.039	U		0.0041			<0.015	U		0.0025	J		0.032			0.18			<0.0033	UJ	UJ
		VMP-45-10-071912	7/19/2012	<0.0065	U		0.013			<0.04	U		0.001	J		0.0032	J		0.002	J		0.044			0.25			<0.0034	U	
		VMP-45-10-101512	10/15/2012	<0.01	U		<0.006	U		<0.062	U		0.001	J		<0.024	U		0.0068	J		<0.0072	U		<0.006	U		<0.0052	U	
	20 ft	VMP-45-20-041912	4/19/2012	<0.4	U		<0.23	U		<2.4	U		0.73			<0.93	U		4.7			0.18	J		<0.23	U		<0.2	U	
		VMP-45-20-071912	7/19/2012	<0.12	U		0.074			<0.76	U		0.06	J		<0.29	U		0.98			0.028	J		<0.073	U		<0.064	U	
		VMP-45-20-101512	10/15/2012	<0.0096	U		0.0018	J		<0.059	U		0.0039	J		<0.023	U		0.054			<0.0068	J	U	0.0076			<0.005	U	
	30 ft	VMP-45-30-041912	4/19/2012	<0.27	U		3.1		J	<1.6	U		0.57		J	<0.62	U		4.5		J	0.23		J	<0.16	U		<0.14	U	
		VMP-45-30-071912	7/19/2012	<0.067	U		<0.039	U		<0.41	U		<0.034	U		<0.16	U		0.13			0.05			0.12			<0.034	U	
		VMP-45-30-101512	10/15/2012	<0.0096	U		<0.0056	U		<0.059	U		0.0044	J		<0.023	U		0.039			<0.0068	U		<0.0056	U		<0.005	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.0095	U		<0.0056	U		<0.058	U		0.0035	J		<0.022	U		0.044			<0.0067	U		<0.0056	U		<0.0049	U	

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TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	<0.042	U		<0.021	U		<0.018	U		<0.029	U		<0.029	U		<0.012	U		0.0031	J		<0.13	U		<0.023	U	
		VMP-1-5-111710	11/17/2010	<0.051	U		<0.025	U		0.0059	J		<0.035	U		<0.035	U		<0.015	U		<0.019	U		<0.15	U		<0.028	U	
		VMP-1-5-020411	2/4/2011	1.9			<0.5	U		<0.43	U		<0.69	U		<0.68	U		<0.3	U		<0.38	U		<3	U		<0.55	U	
		VMP-1-5-041211	4/12/2011	0.0032	J		0.0038	J		<0.0056	U		<0.0091	U		0.002	J		<0.0039	U		0.0024	J		<0.039	J	U	<0.0072	U	
		VMP-1-5-080111	8/1/2011	0.026			0.0013	J		0.0021	J		<0.0091	U		<0.009	U		0.0016	J		0.032			<0.039	U		<0.0072	U	
		VMP-1-5-110311	11/3/2011	<34	U		<17	U		<15	U		<24	U		<24	U		<10	U		<13	U		<100	U		<19	U	
		VMP-1-5-013012	1/30/2012	<2.9	U		<1.4	U		<1.2	U		<2	U		<2	U		<0.86	U		<1.1	U		<8.6	U		<1.6	U	
		VMP-1-5-041312	4/13/2012	0.04			<0.0044	U		<0.0038	U		<0.0061	U		<0.0061	J	U	<0.0026	J	U	0.0073			<0.026	U		<0.0049	U	
		VMP-1-5-071612	7/16/2012	0.13			0.0027	J		0.0038	J		<0.0063	U		0.0039	J		<0.0027	U		0.14			<0.027	U		<0.005	J	U
		VMP-1-5-101112	10/11/2012	<0.023	U		<0.011	U		<0.0098	U		<0.016	U		<0.016	U		<0.0068	U		0.0014	J		<0.068	U		<0.012	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	<0.13	U		<0.063	U		<0.055	U		<0.088	U		<0.087	U		<0.038	U		<0.048	U		<0.38	U		<0.07	U	
		VMP-1-8.5-111710	11/17/2010	<0.024	U		0.0022	J		0.0034	J		<0.017	U		<0.017	U		<0.0073	U		<0.0093	U		<0.073	U		<0.013	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.015	J		0.0021	J		0.0022	J		<0.017	U		<0.017	U		<0.0073	U		0.002	J		<0.073	U		<0.013	U	
		VMP-1-8.5-020411	2/4/2011	<2	U		<0.98	U		<0.84	U		<1.4	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U		<1.1	U	
		VMP-1-8.5-041211	4/12/2011	<0.017	U		0.0025	J		<0.0074	U		<0.012	U		0.00097	J		<0.0051	U		0.0022	J		<0.052	J	U	<0.0095	U	
		VMP-1-8.5-080111	8/1/2011	<7.1	U		<3.5	U		<3.1	U		<4.9	U		<4.9	U		<2.1	U		<2.7	U		<21	U		<3.9	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<6.9	U		<3.5	U		<3	U		<4.8	U		<4.8	U		<2.1	U		<2.6	U		<21	U		<3.8	U	
		VMP-1-8.5-110311	11/3/2011	<79	U		<40	U		<34	U		<55	U		<55	U		<24	U		<30	U		<240	U		<44	U	
		VMP-1-8.5-013012	1/30/2012	<17	U		<8.6	U		<7.4	U		<12	U		<12	U		<5.2	U		<6.6	U		<52	U		<9.5	U	
		VMP-1-8.5-041612	4/16/2012	0.021			0.00093	J		<0.0045	U		<0.0073	U		<0.0072	U		<0.0031	U		0.012			<0.031	J	U	<0.0058	J	U
		VMP-1-8.5-041612-Dup	4/16/2012	0.022			0.00083	J		<0.0044	U		<0.0071	U		<0.007	U		<0.003	U		0.014			<0.03	J	U	<0.0056	J	U
		VMP-1-8.5-071612	7/16/2012	0.097			<0.0045	J	U	0.0034	J		<0.0063	U		0.0035	J		0.0049			0.11			<0.027	U		<0.005	J	U
		VMP-1-8.5-101112	10/11/2012	0.0012	J		<0.0069	U		<0.006	U		<0.0097	U		<0.0096	U		<0.0042	U		0.0014	J		<0.042	J	U	<0.0077	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<4.4	U		<2.2	U		<1.9	U		<3.1	U		<3	U		<1.3	U		<1.7	U		<13	U		<2.4	U	
		VMP-1-23.5-111810	11/17/2010	0.0052	J		<0.0061	U		0.003	J		<0.0085	U		<0.0084	J	U	<0.0036	U		0.001	J		<0.037	U		<0.0067	U	
		VMP-1-23.5-020411	2/4/2011	<11	U		<5.7	U		<5	U		<8	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-1-23.5-041211	4/12/2011	12	J		<9.3	U		<8.1	U		<13	U		<13	U		<5.6	U		1.9	J		<56	U		<10	U	
		VMP-1-23.5-041211-DUP	4/12/2011	8.1	J		<12	U		<10	U		<16	U		<16	U		<7.1	U		<9	U		<71	U		<13	U	
		VMP-1-23.5-080111	8/1/2011	14	J		<63	U		<55	U		<88	U		<88	U		<38	U		<49	U		<380	U		<70	U	
		VMP-1-23.5-110611	11/6/2011	<30	U		<15	U		<13	U		<21	U		5.4	J		<9	U		5.1	J		<90	U		<17	U	
		VMP-1-23.5-013112	1/31/2012	<59	U		<29	U		<26	U		<41	U		<41	U		<18	U		<23	U		<180	U		<33	U	
		VMP-1-23.5-041612	4/16/2012	<4.7	U		<2.3	U		<2	U		<3.3	U		<3.2	U		<1.4	U		<1.8	U		<14	U		<2.6	U	
		VMP-1-23.5-071612	7/16/2012	<59	U		<30	U		<26	U		<41	U		<41	U		<18	U		<23	U		<180	U		<33	U	
		VMP-1-23.5-102412	10/24/2012	<120	U		<59	U		<51	U		<83	U		<82	U		<36	U		12	J		<360	U		<66	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	0.013			0.00058	J		0.0021	J		<0.0064	U		<0.0063	U		0.001	J		0.049			<0.028	U		<0.0051	U	
		VMP-1-38.5-102612	10/26/2012	<6.4	U		<3.2	U		<2.8	U		<4.5	U		<4.4	U		<1.9	U		<2.4	U		<19	U	UJ	<3.5	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<4.4	U		<2.2	U		<1.9	U		<3.1	U		<3	U		<1.3	U		<1.7	U		<13	U		<2.4	U	
		VMP-2-5-111610	11/16/2010	<6.5	U		<3.2	U		<2.8	U		<4.5	U		<4.5	U		<1.9	U		<2.5	U		<20	U		<3.6	U	
		VMP-2-5-020411	2/4/2011	<1.7	U		<0.85	U		<0.73	U		<1.2	U		<1.2	U		<0.51	U		<0.65	U		<5.1	U		<0.94	U	
		VMP-2-5-041311	4/13/2011	<0.014	U		0.0022	J		<0.0059	U		<0.0095	U		0.0042	J		<0.0041	U		0.0046	J		<0.041	U		<0.0076	U	
		VMP-2-5-080211	8/2/2011	<14	U		<7.1	U		<6.2	U		<9.9	U		<9.8	U		<4.3	U		<5.4	U		<43	U		<7.9	U	
		VMP-2-5-110711	11/7/2011	0.016			0.00028	J		<0.0036	U		<0.0059	U		<0.0058	J	U	<0.0025	U		0.01			<0.025	U		<0.0047	U	
		VMP-2-5-012512	1/25/2012	0.75	J		<0.48	U		<0.41	U		<0.66	U		<0.66	U		<0.29	U		1.3			<2.9	U		<0.53	U	
		VMP-2-5-042512	4/25/2012	0.04			<0.019	U		<0.016	U		<0.026	U		0.0065	J		<0.011	U		0.038			<0.11	U		<0.021	U	
		VMP-2-5-071612	7/16/2012	0.1			<0.0046	J	U	0.0041			<0.0064	U		0.004	J		0.0048			0.13			<0.028	U		<0.0051	J	U
		VMP-2-5-102412	10/24/2012	0.044			<0.007	U		<0.0061	U		<0.0098	U		0.0051	J		0.0038	J		0.013			<0.042	U		<0.0078	U	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<4.5	U		<2.3	U		<2	U		<3.2	U		<3.1	U		<1.4	U		<1.7	U		<14	U		<2.5	U	
		VMP-2-8.5-111610	11/16/2010	<12	U		<6.2	U		<5.4	U		<8.6	U		<8.5	U		<3.7	U		<4.7	U		<37	U		<6.9	U	
		VMP-2-8.5-020411	2/4/2011	<4.2	U		<2.1	U		<1.8	U		<3	U		<2.9	U		<1.3	U		<1.6	U		<13	U		<2.3	U	
		VMP-2-8.5-041311	4/13/2011	<1.3	U		<0.65	U		<0.56	U		<0.9	U		<0.89	U		<0.39	U		0.035	J		<3.9	U		0.078	J	
		VMP-2-8.5-080211	8/2/2011	11	J		<26	U		<22	U		<36	U		<36	U		<16	U		<20	U		<160	U		<29	U	
		VMP-2-8.5-110711	11/7/2011	<0.11	U		<0.056	U		<0.048	U		<0.078	U		<0.077	U		<0.034	U		0.01	J		<0.34	U		<0.062	U	
		VMP-2-8.5-012612	1/26/2012	<5	U		<2.5	U		<2.2	U		<3.5	U		<3.4	U		<1.5	U		<1.9	U		<15	U		<2.8	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<5	U		<2.5	U		<2.2	U		<3.5	U		<3.4	U		<1.5	U		<1.9	U		<15	U		<2.8	U	
		VMP-2-8.5-041612	4/16/2012	0.023			0.00091	J		0.00085	J		<0.0067	U		<0.0066	U		<0.0029	U		0.012			<0.029	U		<0.0053	J	U
		VMP-2-8.5-041612-Dup	4/16/2012	0.024			0.00098	J		0.00089	J		<0.0069	U		<0.0068	U		<0.003	U		0.012			<0.03	U		<0.0055	J	U
		VMP-2-8.5-071612	7/16/2012	0.065			<0.0055	J	U	0.0031	J		<0.0077	U		<0.0076	J	U	0.0037			0.057			<0.033	U		<0.0061	U	
		VMP-2-8.5-071612-Dup	7/16/2012	0.062			<0.0045	J	U	0.0028	J		<0.0063	U		0.0043	J		0.0033			0.059			<0.027	U		<0.005	J	U
		VMP-2-8.5-102312	10/23/2012	0.0032	J		<0.0072	J	U	<0.0062	U		<0.01	U		0.0046	J		<0.0043	U		0.017			<0.043	U		<0.0079	U	
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<6.9	U		<3.5	U		<3	U		<4.8	U		<4.8	U		<2.1	U		<2.6	U		<21	U		<3.8	U	
		VMP-2-22-111610	11/16/2010	<13	U		<6.5	U		<5.6	U		<9.1	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-2-22-020411	2/4/2011	<5.8	U		<2.9	U		<2.5	U		<4.1	U		<4	U		<1.8	U		<2.2	U		<18	U		<3.2	U	
		VMP-2-22-041311	4/13/2011	<17	U		<8.6	U		<7.4	U		<12	U		<12	U		<5.1	U		<6.6	U		<52	U		<9.5	U	
		VMP-2-22-080211	8/2/2011	<69	U		<35	U		<30	U		<48	U		<48	U		<21	U		<26	U		<210	U		<38	U	
		VMP-2-22-110711	11/7/2011	<3.7	U		<1.8	U		<1.6	U		<2.6	U		0.81	J		<1.1	U		1.4			<11	U		<2	U	
		VMP-2-22-012612	1/26/2012	<7.6	U		<3.8	U		<3.3	U		<5.3	U		<5.2	U		<2.3	U		<2.9	U		<23	U		<4.2	U	
		VMP-2-22-042712	4/27/2012	0.02			<0.004	U		0.00081	J		<0.0055	U		0.0028	J		0.0029			0.013			<0.024	U		<0.0044	U	
		VMP-2-22-071612	7/16/2012	0.2			<0.0047	J	U	0.0037	J		<0.0065	U		0.0035	J		0.0062			0.11			<0.028	U		<0.0052	U	
		VMP-2-22-102312	10/23/2012	0.002	J		<0.0072	U		<0.0062	U		<0.01	U		0.0066	J		<0.0043	U		<0.0055	J	U	<0.043	U		0.00061	J	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<13	U		<6.5	U		<5.7	U		<9.1	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-3-5-112210	11/22/2010	2.1	J		<6.6	U		<5.7	U		<9.2	U		4.5	J		<4	U		3.2	J		<40	U		<7.3	U	
		VMP-3-5-020911	2/9/2011	<5.9	U		<3	U		<2.6	U		<4.2	U		<4.1	U		<1.8	U		<2.3	U		<18	U		<3.3	U	
		VMP-3-5-041411	4/14/2011	<64	UJ	UJ	<32	U		<28	U		<45	U		<44	U		<19	U		<24	U		<190	U		<35	U	
		VMP-3-5-080211	8/2/2011	0.019			<0.0076	U		0.0021	J		<0.011	U		<0.01	U		0.0015	J		0.02			<0.046	U		<0.0085	U	
		VMP-3-5-110811	11/8/2011	0.0094			<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.0094			<0.025	U		<0.0047	U	
		VMP-3-5-110811-DUP	11/8/2011	0.0093			<0.0043	U		<0.0037	U		<0.006	U		<0.0059	U		<0.0026	U		0.0085			<0.026	U		<0.0048	U	
		VMP-3-5-012712	1/27/2012	<4.3	U		<2.2	U		<1.9	U		<3	U		<3	U		<1.3	U		<1.6	U		<13	U		<2.4	U	
		VMP-3-5-041912	4/19/2012	0.1			0.0013	J		0.0018	J		<0.0066	U		<0.0065	U		0.012			0.033			<0.028	U		<0.0052	J	U
		VMP-3-5-072712	7/27/2012	0.055			0.0011	J		0.0029	J		<0.0069	U		<0.0068	U		0.005			0.024			<0.03	U		<0.0055	U	
	10 ft	VMP-3-10	6/21/2010	3.8	J		5.6	J		<6.4	U		<10	U		<10	U		<4.5	U		<5.7	U		<45	U		<8.3	U	
		VMP 3-10-091010	9/10/2010	<42	U		7.2	J		<18	U		<29	U		<29	U		<12	U		<16	U		<130	U		<23	U	
		VMP-3-10-092010	9/20/2010	<30	U		4.4	J		<13	U		<21	U		<21	U		<9.1	U		9.9	J		<92	U		<17	U	
		VMP-3-10-112210	11/22/2010	<13	U		11			<5.6	U		<9.1	U		<9	U		<3.9	U		2.1	J		<39	U		<7.2	U	
		VMP-3-10-112210-Dup	11/22/2010	<18	U		7.9	J		<7.8	U		<13	U		<12	U		<5.4	U		2	J		<55	U		<10	U	
		VMP-3-10-020811	2/8/2011	<19	U		<9.5	U		<8.3	U		<13	U		<13	U		<5.7	U		<7.3	U		<58	U		<10	U	
		VMP-3-10-041311	4/13/2011	<110	UJ	UJ	<55	U		<48	U		<77	U		<76	U		<33	U		<42	U		<330	U		<61	U	
		VMP-3-10-080311	8/3/2011	0.044	J		0.022	J		<0.06	U		<0.097	U		<0.096	U		<0.042	U		0.028	J		<0.42	U		<0.077	U	
		VMP-3-10-110811	11/8/2011	0.015			<0.0057	U		<0.005	U		<0.008	U		<0.0079	U		<0.0034	U		0.013			<0.034	U		<0.0064	U	
		VMP-3-10-012712	1/27/2012	0.017	J		0.015	J		<0.036	U		<0.058	U		<0.057	U		<0.025	U		0.026	J		<0.25	U		<0.046	U	
		VMP-3-10-042012	4/20/2012	0.018			<0.0042	J	U	0.0011	J		<0.0059	U		<0.0058	J	U	0.0044			0.015			<0.025	U		0.00048	J	
		VMP-3-10-072312	7/23/2012	0.014			<0.0049	U		0.00037	J		<0.0069	U		<0.0068	U		<0.003	U		0.008			<0.03	U		<0.0055	U	
		VMP-3-10-101812	10/18/2012	0.012	J		0.0011	J		<0.0064	U		<0.01	U		<0.01	U		<0.0045	U		0.022			<0.11	U	UJ	<0.0083	U	
	22 ft	VMP-3-22-092010	9/20/2010	<40	U		29			<17	U		<28	U		<28	U		<12	U		37			<120	U		<22	U	
		VMP-3-22-112210	11/22/2010	<46	U		40			<20	U		<32	U		<32	U		<14	U		<18	U		<140	U		<25	U	
		VMP-3-22-020811	2/8/2011	<22	U		20			<9.8	U		<16	U		<16	U		<6.8	U		4.3	J		<68	U		<12	U	
		VMP-3-22-041511	4/15/2011	<120	UJ	UJ	<61	U		<53	U		<85	U		<84	U		<36	U	UJ	<47	U		<370	U		<68	U	
		VMP-3-22-080611	8/6/2011	0.11	J		<0.097	U		<0.084	U		<0.14	U		<0.13	U		<0.058	U		0.087			<0.59	U		<0.11	U	
		VMP-3-22-110811	11/8/2011	0.032			<0.0043	U		<0.0037	U		<0.006	U		<0.0059	U		0.0024	J		0.016			<0.026	U		<0.0048	U	
		VMP-3-22-013012	1/30/2012	0.054			0.0015	J		<0.015	U		<0.024	U		<0.024	U		<0.01	U		0.03			<0.1	U		<0.019	U	
		VMP-3-22-042012	4/20/2012	0.017			<0.0043	J	U	<0.0037	U		<0.006	U		<0.0059	J	U	0.0044			0.014			<0.026	U		<0.0048	U	
		VMP-3-22-072312	7/23/2012	0.0087	J		<0.0048	U		<0.0042	U		<0.0067	U		<0.0066	U		<0.0029	U		0.0057			<0.029	U		<0.0053	U	
		VMP-3-22-101812	10/18/2012	0.0032	J		<0.0073	U		<0.0063	U		<0.01	U		<0.01	U		<0.0044	U		0.084			<0.11	U	UJ	<0.0081	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<75	U		17	J		<32	U		<52	U		<52	U		<22	U		17	J		<220	U		<41	U	
		VMP-3-31.5-112210	11/22/2010	<52	U		9.8	J		<22	U		<36	U		<36	U		<16	U		19	J		<160	U		<29	U	
		VMP-3-31.5-020911	2/9/2011	<50	U		<25	U		<22	U		<35	U		<34	U		<15	U		40			<150	U		<28	U	
		VMP-3-31.5-041411	4/14/2011	<410	UJ	UJ	<200	U		<180	U		<280	U		<280	U		<120	U		<160	U		<1200	U		<230	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<410	UJ	UJ	<200	U		<180	U		<280	U		<280	U		<120	U		<160	U		<1200	U		<230	U	
		VMP-3-31.5-080211	8/2/2011	<920	U		<460	U		<400	U		<640	U		1100			<280	U		<350	U		<2800	U		<510	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<540	U		<270	U		<230	U		<380	U		<370	U		<160	U		<210	U		<1600	U		<300	U	
		VMP-3-31.5-110811	11/8/2011	<22	U		<11	U		<9.3	U		<15	U		<15	U		<6.4	U		23			<65	U		<12	U	
		VMP-3-31.5-012712	1/27/2012	<140	U		<68	U		<59	U		<95	U		<94	U		<41	U		<52	U		<410	U		<76	U	
		VMP-3-31.5-041912	4/19/2012	<230	U		<120	U		<100	U		<160	U		<160	U		<70	U		<90	U		<710	U		<130	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<220	U		<110	U		<98	U		<160	U		<160	U		<68	U		<86	U		<680	U		<120	U	
		VMP-3-31.5-072312	7/23/2012	<56	U		<28	U		<24	U		<39	U		<39	U		<17	U		<22	U		<170	U		<31	U	
		VMP-3-31.5-101912	10/19/2012	<4.5	U		<2.3	U		<2	U		<3.2	U		<3.1	U		<1.4	U		0.3	J		<14	U		<2.5	U	
	39 ft	VMP-3-39-101912	10/19/2012	<450	U		<230	U		<200	U		<320	U		<310	U		<140	U		23	J		<1400	U		<250	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.71	U		0.058	J		<0.31	U		<0.49	U		<0.49	U		<0.21	U		<0.27	U		<2.1	U		<0.39	U	
		VMP-4-5-112210	11/22/2010	<26	U		8.4	J		<11	U		<18	U		<18	U		<7.9	U		2.8	J		<80	U		<15	U	
		VMP-4-5-021411	2/14/2011	<1.5	U		<0.77	U		<0.67	U		<1.1	U		<1.1	U		<0.46	U		0.49	J		<4.7	U		<0.86	U	
		VMP-4-5-041911	4/19/2011	<71	UJ	UJ	<36	U		<31	U		<50	U		<49	U		<21	U		<27	U		<220	U		<40	U	
		VMP-4-5-080311	8/3/2011	0.044	J		<0.076	U		<0.066	U		<0.11	U		<0.1	U		<0.046	U		0.03	J		<0.46	U		<0.085	U	
		VMP-4-5-110911	11/9/2011	0.012			0.00081	J		<0.0036	U		<0.0059	U		<0.0058	U		0.00057	J		0.0059			<0.025	U		<0.0047	U	
		VMP-4-5-013012	1/30/2012	0.044	J	J	<0.22	U		<0.19	U		<0.3	U		<0.3	U		<0.13	U		0.059	J	J	<1.3	U		<0.24	U	
		VMP-4-5-042512	4/25/2012	0.035			<0.0053	J	U	0.0027	J		<0.0074	U		<0.0074	J	U	<0.0032	U		0.039			<0.032	U		<0.0059	U	
		VMP-4-5-072512	7/25/2012	0.11			0.0024	J		0.0051			<0.0073	U		0.0024	J		0.0027	J		0.12			<0.032	U		<0.0058	U	
		VMP-4-5-101812	10/18/2012	0.01	J		<0.0076	U		<0.0066	U		<0.011	U		<0.01	U		<0.0046	U		0.0062			<0.12	U	UJ	<0.0085	U	
	12 ft	VMP-4-12-082510	8/25/2010	<12	U		4.2	J		<5.4	U		<8.6	U		<8.5	U		<3.7	U		<4.7	U		<37	U		<6.9	U	
		VMP-4-12-112310	11/23/2010	<13	U		<6.3	U		<5.5	U		<8.8	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
		VMP-4-12-021411	2/14/2011	<3.2	U		<1.6	U		<1.4	U		<2.2	U		<2.2	U		<0.96	U		1.1	J		<9.6	U		<1.8	U	
		VMP-4-12-041911	4/19/2011	<61	UJ	UJ	<31	U		<27	U		<43	U		<42	U		<18	U		20	J		<180	U		<34	U	
		VMP-4-12-080311	8/3/2011	<7.1	U		<3.5	U		<3.1	U		<4.9	U		<4.9	U		<2.1	U		<2.7	U		<21	U		<3.9	U	
		VMP-4-12-080311-Dup	8/3/2011	<14	U		<7.1	U		<6.2	U		<9.9	U		<9.8	U		<4.3	U		<5.4	U		<43	U		<7.9	U	
		VMP-4-12-110911	11/9/2011	<2.2	U		<1.1	U		<0.93	U		<1.5	U		<1.5	U		<0.64	U		<0.82	U		<6.5	U		<1.2	U	
		VMP-4-12-013012	1/30/2012	<4.4	U		<2.2	U		<1.9	U		<3.1	U		<3	U		<1.3	U		3.2			<13	U		<2.4	U	
		VMP-4-12-041812	4/18/2012	0.075			0.0011	J		0.0014	J		<0.0069	U		0.011			<0.003	U		0.049			<0.03	U		<0.0055	U	
		VMP-4-12-072312	7/23/2012	0.014	J		0.012	J		<0.021	U		<0.033	U		<0.033	U		<0.014	U		0.17			<0.14	U		<0.026	U	
		VMP-4-12-101812	10/18/2012	0.0098	J		0.00085	J		<0.0064	U		<0.01	U		<0.01	U		<0.0045	U		0.031			<0.11	U	UJ	<0.0083	U	
		VMP-4-12-101812-Dup	10/18/2012	0.004	J		0.0011	J		<0.0066	U		<0.011	U		<0.01	U		<0.0046	U		0.033			<0.12	U	UJ	<0.0085	U	
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<14	U		69		J	<6.2	U		<9.9	U		<9.8	U		<4.3	U		2000		J	<43	U		<7.9	U	
		VMP-4-23.5-112310	11/23/2010	<140	U		22	J		<62	U		<100	U		<99	U		<43	U		1600			<430	U		<79	U	
		VMP-4-23.5-021411	2/14/2011	<5.2	U		<2.6	U		<2.2	U		<3.6	U		<3.6	U		<1.6	U		600		J	<16	U		<2.9	U	
		VMP-4-23.5-042011	4/20/2011	<330	U		<160	U		<1400	U		<230	U		<230	U		<99	U		820			<1000	U		<180	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<330	U		<160	U		<1400	U		<230	U		<230	U		<99	U		790			<1000	U		<180	U	
		VMP-4-23.5-080611	8/6/2011	<14	U		7.6			<6	U		<9.6	U		<9.5	U		<4.1	U		390			<42	U		<7.7	U	
		VMP-4-23.5-110911	11/9/2011	<41	U		<21	U		<18	U		<29	U		<28	U		<12	U		44			<120	U		<23	U	
		VMP-4-23.5-013012	1/30/2012	<88	U		<44	U		<38	U		<61	U		<61	U		<26	U		580		J	<260	U		<49	U	
		VMP-4-23.5-013012-DUP	1/30/2012	<61	U		<31	U		<27	U		<43	U		<42	U		<18	U		320		J	<180	U		<34	U	
		VMP-4-23.5-041912	4/19/2012	3.6	J		<9.6	U		<8.3	U		<13	U		<13	U		<5.8	U		110			<58	U		<11	U	
		VMP-4-23.5-072312	7/23/2012	<9.2	U		6			<4	U		<6.4	U		<6.4	U		<2.8	U		420			<28	U		<5.1	U	
		VMP-4-23.5-101812	10/18/2012	<10	U		<5.1	U		<4.4	U		<7.1	U		<7	U		<3	U		6.6			<30	U		<5.6	U	
	39 ft	VMP-4-39-042111	4/21/2011	<410	U		<210	U		<1800	U		<290	U		<280	U		<120	U		440			<1200	U		<230	U	
		VMP-4-39-041912	4/19/2012	<9.9	U		4.4	J		<4.3	U		<6.9	U		<6.8	U		<3	U		200			<30	U		<5.5	U	
		VMP-4-39-072312	7/23/2012	<15	U		8.3		J	<6.4	U		<10	U		<10	U		<4.4	U		590		J	<45	U		<8.2	U	
		VMP-4-39-101812	10/18/2012	<190	U		<93	U		<81	U		<130	U		<130	U		<56	U		480			<560	U		<100	U	
		VMP-4-39-101812-Dup	10/18/2012	<170	U		<85	U		<73	U		<120	U		<120	U		<51	U		480			<510	U		<94	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<26	U		4.8	J		<11	U		<18	U		<18	U		<7.8	U		<9.9	U		<78	U		<14	U	
		VMP-5-5-112210	11/22/2010	<6.3	U		<3.2	U		<2.7	U		<4.4	U		<4.4	U		<1.9	U		<2.4	U		<19	U		<3.5	U	
		VMP-5-5-021611	2/16/2011	0.3		J	<0.02	U		<0.018	U		<0.028	U		<0.028	U		<0.012	U		0.0078	J	J	<0.12	U		<0.022	U	
		VMP-5-5-042111	4/21/2011	<0.13	U		<0.065	U		<0.56	U		<0.091	U		0.078	J		<0.039	U		<0.05	U		<0.39	U		<0.072	U	
		VMP-5-5-080511	8/5/2011	0.07			0.00075	J		0.0024	J		<0.0086	U		0.0031	J		<0.0037	U		1.3			<0.037	U		<0.0069	J	U
		VMP-5-5-111111	11/11/2011	0.014			0.018			<0.004	U		<0.0064	U		<0.0063	U		<0.0027	U		0.0096			<0.028	U		<0.0051	U	
		VMP-5-5-013012	1/30/2012	0.25			0.007	J		0.0053	J		<0.064	U		<0.063	U		<0.028	U		0.071			<0.28	U		<0.051	U	
		VMP-5-5-041112	4/11/2012	0.057			0.00078	J		0.0011	J		<0.0063	U		0.0021	J		0.02			0.022			<0.027	U		<0.005	U	
		VMP-5-5-071312	7/13/2012	0.54			<0.005	U		<0.0043	U		<0.007	U		<0.0069	J	U	<0.003	U		0.0038			<0.03	U		<0.0055	U	
		VMP-5-5-101212	10/12/2012	<0.012	U		<0.0062	U		<0.0054	U		<0.0086	U		<0.0085	U		<0.0037	U		0.002	J		<0.037	U		<0.0069	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<13	U		2.1	J		<5.6	U		<9.1	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-5-12.5-112310	11/23/2010	<0.65	U		<0.32	U		<0.28	U		<0.45	U		<0.45	U		<0.19	U		0.5			<2	U		<0.36	U	
		VMP-5-12.5-021611	2/16/2011	<2	U		<0.98	U		<0.84	U		<1.4	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U		<1.1	U	
		VMP-5-12.5-042111	4/21/2011	<0.14	U		<0.069	U		<0.6	U		<0.097	U		<0.096	U		<0.042	U		<0.053	U		<0.42	U		<0.077	U	
		VMP-5-12.5-080611	8/6/2011	<12	U		<6.1	U		<5.3	U		<8.5	U		<8.4	U		<3.6	U		1	J		<37	U		<6.8	U	
		VMP-5-12.5-111111	11/11/2011	0.0091			0.00082	J		<0.0037	U		<0.006	U		<0.006	U		<0.0026	U		0.0094			<0.026	U		<0.0048	U	
		VMP-5-12.5-013012	1/30/2012	0.032			<0.014	J	U	<0.012	U		<0.02	U		<0.019	U		<0.0085	U		0.016			<0.085	U		<0.016	U	
		VMP-5-12.5-041112	4/11/2012	0.049			0.00051	J		0.0016	J		<0.006	U		0.0023	J		0.0055			0.025			<0.026	U		<0.0048	U	
		VMP-5-12.5-071212	7/12/2012	0.01			0.0033	J		<0.0044	J	U	<0.0071	U		<0.007	U		<0.003	U		0.0039			<0.03	U		<0.0056	U	
		VMP-5-12.5-101112	10/11/2012	0.012	J		<0.012	U		<0.01	U		<0.017	U		0.0018	J		<0.0072	U		0.0054	J		<0.072	U		<0.013	U	
	31 ft	VMP-5-31-090910	9/9/2010	<54	U		<27	U		<23	U		<38	U		<37	U		<16	U		4.3	J		<160	U		<30	U	
		VMP-5-31-112310	11/23/2010	<34	U		<17	U		<15	U		<24	U		<23	U		<10	U		8.2	J		<100	U		<19	U	
		VMP-5-31-021611	2/16/2011	<14	U		<6.8	U		<5.9	U		<9.5	U		<9.4	U		<4.1	U		2.5	J		<41	U		<7.5	U	
		VMP-5-31-042111	4/21/2011	<200	U		<100	U		<880	U		<140	U		<140	U		<61	U		<78	U		<610	U		<110	U	
		VMP-5-31-080611	8/6/2011	34	J		<57	U		<49	U		<80	U		<79	U		<34	U		<44	U		<340	U		<63	U	
		VMP-5-31-111111	11/11/2011	<58	U		<29	U		<25	U		<40	U		<40	U		<17	U		14	J		<170	U		<32	U	
		VMP-5-31-013012	1/30/2012	<29	U		<15	U		<13	U		<20	U		<20	U		<8.8	U		<11	U		<89	U		<16	U	
		VMP-5-31-041112	4/11/2012	0.031	J		<0.047	U		<0.041	U		<0.066	U		<0.065	U		<0.028	U		0.039			<0.28	U		<0.052	U	
		VMP-5-31-071212	7/12/2012	0.015			<0.0049	J	U	<0.0043	U		<0.0069	U		<0.0068	U		<0.003	U		0.0082			<0.03	U		<0.0055	U	
		VMP-5-31-101112	10/11/2012	0.0027	J		<0.0069	U		<0.006	U		<0.0097	U		<0.0096	U		<0.0042	U		0.0042	J		<0.042	U		<0.0077	U	
	40 ft	VMP-5-40-042111	4/21/2011	<210	U		<100	U		<920	U		<150	U		<150	U		<64	U		<81	U		<640	U		<120	U	
		VMP-5-40-013012	1/30/2012	<61	U		<31	U		<27	U		<43	U		<42	U		<18	U		<24	U		<180	U		<34	U	
		VMP-5-40-041212	4/12/2012	0.088	J		<0.046	U		<0.04	U		<0.064	U		<0.063	U		<0.028	U		0.092			<0.28	U		<0.051	U	
		VMP-5-40-071212	7/12/2012	<0.099	U		<0.049	U		<0.043	U		<0.069	U		<0.068	U		<0.03	U		<0.038	U		<0.3	U		<0.055	U	
		VMP-5-40-101112	10/11/2012	0.0081	J		<0.0073	U		<0.0063	U		<0.01	U		0.0016	J		<0.0044	U		0.0046	J		<0.044	U		<0.0081	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<2.2	U		<1.1	U		<0.94	U		<1.5	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U		<1.2	U	
		VMP-6-5-111610	11/16/2010	<14	U		7.7			<5.9	U		<9.5	U		<9.4	U		<4.1	U		<5.2	U		<41	U		<7.5	U	
		VMP-6-5-020711	2/7/2011	0.027			0.0034	J		<0.0051	U		<0.0082	U		<0.0081	U		<0.0035	U		0.015			<0.035	J	U	<0.0065	U	
		VMP-6-5-040811	4/8/2011	0.054			<0.013	U		<0.011	U		<0.018	U		<0.018	U		<0.0076	U		0.0037	J		<0.077	U		<0.014	U	
		VMP-6-5-080411	8/4/2011	<0.66	U		<0.33	U		<0.28	U		<0.46	U		<0.45	U		<0.2	U		0.53			<2	U		<0.36	U	
		VMP-6-5-110911	11/9/2011	0.13			0.018			0.00069	J		<0.0055	U		<0.0055	U		<0.0024	U		0.026			<0.024	U		<0.0044	U	
		VMP-6-5-013112	1/31/2012	0.082	J		0.0034	J		<0.04	U		<0.065	U		<0.064	U		<0.028	U		0.054			<0.28	U		<0.052	U	
		VMP-6-5-041212	4/12/2012	0.015			<0.0049	U		0.00098	J		<0.0069	U		<0.0068	J	U	<0.003	J	U	0.013			<0.03	U		<0.0055	U	
		VMP-6-5-071612	7/16/2012	0.0098			<0.0049	J	U	<0.0043	U		<0.0069	U		<0.0068	U		0.0015	J		0.0045			<0.03	U		<0.0055	U	
		VMP-6-5-101012	10/10/2012	0.012	J		<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.00077	J		<0.041	U		<0.0075	U	
	10 ft	VMP-6-10-090810	9/8/2010	<2.3	U		0.73	J	J	<1	U		<1.6	U		<1.6	U		<0.7	U		<0.9	U		<7.1	U		<1.3	U	
		VMP-6-10-111710	11/17/2010	0.0073	J		<0.0063	U		0.0022	J		<0.0088	U		0.0081	J		<0.0038	U		0.001	J		<0.038	U		0.0014	J	
		VMP-6-10-020711	2/7/2011	0.0045	J		<0.0062	J	U	<0.0054	U		<0.0086	U		0.0013	J		<0.0037	U		0.0029	J		<0.037	J	U	<0.0069	U	
		VMP-6-10-040811	4/8/2011	0.53			<0.15	U		0.093	J		<0.21	U		<0.2	U		0.15			0.043	J		<0.9	U		<0.16	U	
		VMP-6-10-080411	8/4/2011	<2.1	U		<1	U		<0.91	U		<1.5	U		<1.4	U		<0.63	U		0.26	J		<6.4	U		<1.2	U	
		VMP-6-10-111011	11/10/2011	0.19			<0.0041	U		<0.0036	U		<0.0058	U		<0.0057	U		<0.0025	U		0.0052			<0.025	U		<0.0046	U	
		VMP-6-10-013112	1/31/2012	<1.5	U		<0.73	U		<0.63	U		<1	U		<1	U		<0.44	U		<0.56	U		<4.4	U		<0.81	U	
		VMP-6-10-041212	4/12/2012	0.015			<0.0048	J	U	<0.0042	U		<0.0067	U		<0.0066	J	U	<0.0029	U		0.019			<0.029	U		<0.0053	U	
		VMP-6-10-071612	7/16/2012	0.013	J		<0.0065	J	U	<0.0056	U		<0.0091	U		<0.009	J	U	<0.0039	J	U	0.0051			<0.039	U		<0.0072	J	U
		VMP-6-10-101112	10/11/2012	0.0037	J		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0027	J		<0.043	U		<0.0079	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	4	J		42			<6.8	U		<11	U		<11	U		<4.7	U		<6.1	U		<48	U		<8.8	U	
		VMP-6-31.5-111710	11/17/2010	<25	U		43			<11	U		<17	U		<17	U		<7.4	U		<9.5	U		<75	U		<14	U	
		VMP-6-31.5-020711	2/7/2011	4.7	J		75			<10	U		<17	U		<16	U		<7.1	U		2.8	J		<72	U		<13	U	
		VMP-6-31.5-041111	4/11/2011	13	J		27			3	J		<13	U		1	J		<5.5	U		1.4	J		<56	U		<10	U	
		VMP-6-31.5-080411	8/4/2011	<14	U		3.1	J		<5.9	U		<9.5	U		<9.4	U		<4.1	U		1.5	J		<41	U		<7.6	U	
		VMP-6-31.5-111011	11/10/2011	<21	U		<10	U		<9.1	U		<15	U		<14	U		<6.3	U		20			<64	U		<12	U	
		VMP-6-31.5-013112	1/31/2012	<8.4	U		1.2	J	J	<3.6	U		<5.9	U		<5.8	U		<2.5	U		<3.2	U		<25	U		<4.7	U	
		VMP-6-31.5-041212	4/12/2012	0.098	J		0.27	J		<0.49	U		<0.79	U		<0.78	U		<0.34	U		0.47			<3.4	U		<0.62	U	
		VMP-6-31.5-071612	7/16/2012	0.078			<0.0089	J	U	<0.0077	U		<0.012	U		0.0074	J		<0.0053	U		0.029			<0.054	U		<0.0099	U	
		VMP-6-31.5-101112	10/11/2012	0.0059	J		<0.0069	U		<0.006	U		<0.0097	U		<0.0096	U		<0.0042	U		0.0016	J		<0.042	U		<0.0077	U	
	39 ft	VMP-6-39-041111	4/11/2011	7.5	J		30			2.6	J		<15	U		<15	U		<6.6	U		2.3	J		<66	U		<12	U	
		VMP-6-39-013112	1/31/2012	<8.4	U		1.7	J	J	<3.6	U		<5.9	U		<5.8	U		<2.5	U		<3.2	U		<25	U		<4.7	U	
		VMP-6-39-041212	4/12/2012	<0.82	U		1			<0.36	U		<0.58	U		<0.57	U		<0.25	U		0.17	J		<2.5	U		<0.46	U	
		VMP-6-39-071612	7/16/2012	0.011	J		<0.019	U		<0.017	U		<0.027	U		<0.027	U		<0.012	U		0.0092	J		<0.12	U		<0.021	U	
		VMP-6-39-071612-Dup	7/16/2012	0.0071	J		<0.02	U		<0.017	U		<0.027	U		<0.027	U		<0.012	U		0.0067	J		<0.12	U		<0.022	U	
		VMP-6-39-101112	10/11/2012	0.0071	J		<0.013	U		<0.011	U		<0.018	U		<0.018	U		<0.0079	U		0.0035	J		<0.08	U		<0.015	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	0.0064	J		<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.0012	J		<0.039	U		<0.0072	U	
		VMP-7-5-111910	11/19/2010	0.0053	J		<0.0058	U		<0.0051	U		<0.0082	U		<0.0081	U		<0.0035	U		<0.0045	U		<0.035	U		<0.0065	U	
		VMP-7-5-020711	2/7/2011	0.0059	J		<0.0063	U		<0.0055	U		<0.0088	U		<0.0088	U		<0.0038	U		0.001	J		<0.038	J	U	<0.007	U	
		VMP-7-5-040711	4/7/2011	<0.018	U		<0.0089	U		<0.0078	U		<0.012	U		<0.012	U		<0.0054	U		0.0025	J		<0.054	U		<0.0099	U	
		VMP-7-5-080211	8/2/2011	<1.8	U		<0.89	U		<0.77	U		<1.2	U		<1.2	U		<0.53	U		<0.68	U		<5.4	U		<0.98	U	
		VMP-7-5-111011	11/10/2011	0.042			<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.0037			<0.025	U		<0.0047	U	
		VMP-7-5-111011-DUP	11/10/2011	0.04			<0.004	U		<0.0034	U		<0.0055	U		<0.0055	U		<0.0024	U		0.0047			<0.024	U		<0.0044	U	
		VMP-7-5-013112	1/31/2012	0.027			<0.0043	J	U	0.00053	J		<0.006	U		<0.0059	U		0.04			0.011			<0.026	U		<0.0048	U	
		VMP-7-5-041212	4/12/2012	0.059			<0.0047	J	U	0.0013	J		<0.0065	U		<0.0064	J	U	0.0062			0.027			<0.028	U		<0.0052	U	
		VMP-7-5-073112	7/31/2012	0.05			0.00095	J		0.0015	J		<0.017	U		<0.017	U		0.0047	J		0.1			<0.073	U		<0.013	U	
		VMP-7-5-101012	10/10/2012	<0.014	U		<0.0073	U		<0.0063	U		<0.01	U		<0.01	U		<0.0044	U		0.0011	J		<0.044	U		<0.0081	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.28	U		<0.14	U		<0.12	U		<0.2	U		<0.2	U		<0.085	U		<0.11	U		<0.86	U		<0.16	U	
		VMP-7-13.5-111910	11/19/2010	<2	U		<0.99	U		<0.86	U		<1.4	U		<1.4	U		<0.59	U		<0.76	U		<6	U		<1.1	U	
		VMP-7-13.5-020711	2/7/2011	0.0086	J		<0.0061	U		<0.0053	U		<0.0085	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	J	U	<0.0067	U	
		VMP-7-13.5-040711	4/7/2011	<0.021	U		<0.011	U		<0.0092	U		<0.015	U		<0.015	U		<0.0064	U		0.0016	J		<0.064	U		<0.012	U	
		VMP-7-13.5-080311	8/3/2011	<2.4	U		<1.2	U		<1	U		<1.6	U		<1.6	U		<0.71	U		<0.91	U		<7.2	U		<1.3	U	
		VMP-7-13.5-111011	11/10/2011	0.01			0.018			<0.0034	U		<0.0054	U		<0.0054	U		<0.0023	U		0.007			<0.023	U		<0.0043	U	
		VMP-7-13.5-013112	1/31/2012	0.11	J	J	<0.055	U		<0.048	U		<0.077	U		<0.076	U		<0.033	U		0.017	J	J	<0.33	U		<0.061	U	
		VMP-7-13.5-013112-DUP	1/31/2012	0.2		J	<0.056	U		<0.049	U		<0.079	U		<0.078	U		<0.034	U		<0.043	U		<0.34	U		<0.062	U	
		VMP-7-13.5-041212	4/12/2012	0.018			<0.0045	U		0.00086	J		<0.0063	U		<0.0062	J	U	0.0064			0.02		J	<0.027	U		<0.005	U	
		VMP-7-13.5-041212-DUP	4/12/2012	0.016			<0.0047	U		0.0018	J		<0.0066	U		<0.0065	J	U	0.0052			0.035		J	<0.029	U		<0.0053	U	
		VMP-7-13.5-072012	7/20/2012	0.041			0.00059	J		0.0012	J		<0.0064	U		<0.0063	U		0.00095	J		0.076			<0.028	U		<0.0051	U	
		VMP-7-13.5-101012	10/10/2012	<0.014	U		<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.0011	J		<0.041	U		<0.0075	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<4	U		5		J	<1.8	U		<2.8	U		<2.8	U		<1.2	U		1	J	J	<12	U		<2.2	U	
		VMP-7-29.5-111910	11/19/2010	<6.1	U		3.9		J	<2.6	U		<4.2	U		<4.2	U		<1.8	U		<2.3	U		<18	U		<3.4	U	
		VMP-7-29.5-020711	2/7/2011	<6.3	U		9.8			<2.7	U		<4.4	U		<4.4	U		<1.9	U		<2.4	U		<19	U		<3.5	U	
		VMP-7-29.5-040711	4/7/2011	<1.5	U		2.5		J	<0.67	U		<1.1	U		<1.1	U		<0.46	U		<0.59	U		<4.6	U		<0.85	U	
		VMP-7-29.5-080311	8/3/2011	<3.6	U		1.1	J		<1.6	U		<2.5	U		<2.5	U		<1.1	U		<1.4	U		<11	U		<2	U	
		VMP-7-29.5-111111	11/11/2011	3.2	J		0.84	J		0.62	J		<5	U		<4.9	U		<2.1	U		16			<22	U		<4	U	
		VMP-7-29.5-020112	2/1/2012	<1.4	U		0.32	J	J	<0.62	U		<1	U		<0.99	U		<0.43	U		<0.55	U		<4.3	U	UJ	<0.8	U	
		VMP-7-29.5-041312	4/13/2012	0.015			<0.0045	J	U	0.0012	J		<0.0063	U		<0.0062	U		<0.0027	J	U	0.016			<0.027	U		<0.005	U	
		VMP-7-29.5-072012	7/20/2012	0.042		J	0.0005	J		0.00076	J		0.003	J		<0.0063	U		0.0016	J		0.017			<0.028	U		<0.0051	U	
		VMP-7-29.5-072012-Dup	7/20/2012	0.02		J	0.00086	J		0.00078	J		<0.0064	U		<0.0063	U		<0.0028	U		0.018			<0.028	U		<0.0051	U	
		VMP-7-29.5-101012	10/10/2012	0.0026	J		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0013	J		<0.043	J	U	<0.0079	U	
	38 ft	VMP-7-38-020711	2/7/2011	<8.5	U		4.6			<3.7	U		<5.9	U		<5.9	U		<2.6	U		<3.2	U		<26	U		<4.7	U	
		VMP-7-38-040711	4/7/2011	<2.2	U		0.43	J	J	<0.94	U		<1.5	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U		<1.2	U	
		VMP-7-38-020112	2/1/2012	<2.1	U		0.33	J	J	<0.89	U		<1.4	U		<1.4	U		<0.62	U		<0.79	U		<6.2	U	UJ	<1.1	U	
		VMP-7-38-042512	4/25/2012	0.018			<0.0045	U		<0.0039	U		<0.0063	U		<0.0062	J	U	<0.0027	U		0.014			<0.027	U		<0.005	U	
		VMP-7-38-042512-Dup	4/25/2012	0.017			<0.0045	U		0.0011	J		<0.0063	U		<0.0062	J	U	<0.0027	U		0.013			<0.027	U		<0.005	U	
		VMP-7-38-101112	10/11/2012	0.0039	J		<0.0066	U		<0.0057	U		<0.0092	U		<0.0091	U		<0.004	U		0.0022	J		<0.04	U		<0.0073	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.013	J		<0.0066	U		<0.0057	U		<0.0092	U		0.0048	J		<0.004	U		0.0011	J		0.015	J		0.00087	J	
		VMP-8-5-111810	11/17/2010	0.0026	J		<0.0057	U		0.0024	J		<0.008	U		0.0026	J		<0.0034	U		0.00096	J		<0.034	U		0.0009	J	
		VMP-8-5-021011	2/10/2011	0.008	J		<0.0061	U		<0.0053	U		<0.0085	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	U		<0.0067	U	
		VMP-8-5-040711	4/7/2011	<0.014	U		<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	J	U	<0.0041	U		0.0016	J		<0.041	J	U	<0.0075	U	
		VMP-8-5-072711	7/27/2011	0.075			0.00084	J		0.0015	J		<0.01	U		0.0028	J		<0.0044	U		0.023			<0.044	U		<0.0081	U	
		VMP-8-5-110311	11/3/2011	0.014			<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		0.00065	J		0.023			<0.025	U		<0.0047	U	
		VMP-8-5-012312	1/23/2012	0.014			<0.0052	J	U	<0.0045	U		<0.0073	U		0.0029	J		0.0016	J		0.0047			<0.031	J	U	<0.0058	U	
		VMP-8-5-041012	4/10/2012	0.0039	J		0.0048			0.00077	J		<0.0066	U		0.0016	J		<0.0028	U		0.0076			<0.028	U		<0.0052	U	
		VMP-8-5-071312	7/13/2012	0.0044	J		<0.004	J	U	<0.0034	U		<0.0055	U		<0.0055	U		<0.0024	U		<0.003	J	U	<0.024	U		<0.0044	U	
		VMP-8-5-073112	7/31/2012	0.064			0.00054	J		0.0019	J		<0.0071	U		0.0028	J		0.0048			0.14			<0.03	U		<0.0056	U	
		VMP-8-5-100412	10/4/2012	<0.014	U		<0.0068	J	U	<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.0013	J		0.0061	J		<0.0075	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.013	U		<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.0015	J		<0.039	U		<0.0072	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	0.029			<0.0059	U		<0.0052	U		<0.0083	U		0.0045	J		<0.0036	U		0.0033	J		0.01	J		<0.0066	U	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	0.0068	J		<0.0061	U		0.0011	J		<0.0085	U		0.0043	J		<0.0036	U		0.0007	J		<0.037	U		0.00072	J	
		VMP-8-9.5-111810	11/17/2010	0.0073	J		<0.0059	U		0.0018	J		<0.0083	U		0.0098			<0.0036	U		0.001	J		<0.036	U		0.0015	J	
		VMP-8-9.5-021011	2/10/2011	0.0036	J		<0.0062	U		<0.0054	U		<0.0086	U		0.0042	J		<0.0037	U		0.0011	J		<0.037	U		<0.0069	U	
		VMP-8-9.5-040711	4/7/2011	0.0043	J		<0.0068	U		<0.0059	U		<0.0095	U		0.0046	J		<0.0041	U		0.0012	J		<0.041	U		<0.0075	U	
		VMP-8-9.5-072711	7/27/2011	0.04			0.00094	J		0.0022	J		<0.0073	U		0.0025	J		<0.0031	U		0.02			<0.032	U		<0.0058	U	
		VMP-8-9.5-110311	11/3/2011	0.0091			0.00063	J		<0.0036	U		<0.0058	U		<0.0057	U		0.00073	J		0.023			<0.025	U		<0.0046	U	
		VMP-8-9.5-012312	1/23/2012	0.0049	J		<0.005	J	U	<0.0043	U		<0.007	U		0.0037	J		0.0014	J		0.0046			<0.03	U		<0.0055	U	
		VMP-8-9.5-041012	4/10/2012	0.014			<0.0047	U		0.00097	J		<0.0066	U		0.0014	J		<0.0028	U		0.012			<0.028	U		<0.0052	U	
		VMP-8-9.5-071312	7/13/2012	0.0039	J		<0.0046	U		<0.004	U		<0.0064	U		<0.0063	U		<0.0028	U		<0.0035	U		<0.028	U		<0.0051	U	
		VMP-8-9.5-071312-Dup	7/13/2012	0.0026	J		<0.0044	U		<0.0038	U		<0.0061	U		<0.0061	U		<0.0026	U		<0.0034	U		<0.026	U		<0.0049	U	
		VMP-8-9.5-100412	10/4/2012	<0.015	U		<0.0074	U		<0.0064	U		<0.01	U		<0.01	U		<0.0045	U		0.0043	J		<0.045	U		<0.0083	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	0.0046	J		<0.0065	U		<0.0056	U		<0.0091	U		0.0038	J		<0.0039	U		0.00063	J		<0.039	U		0.00084	J	
		VMP-8-23.5-111910	11/19/2010	0.0063	J		<0.0062	U		0.0024	J		<0.0086	U		0.0041	J		<0.0037	U		0.0013	J		<0.037	U		<0.0069	U	
		VMP-8-23.5-021011	2/10/2011	0.0076	J		<0.0066	U		<0.0057	U		<0.0092	U		0.0041	J		<0.004	U		<0.0051	U		<0.04	U		<0.0073	U	
		VMP-8-23.5-040711	4/7/2011	<0.012	U		<0.0062	U		<0.0054	U		<0.0086	U		0.0045	J		<0.0037	U		0.0015	J		0.002	J		<0.0069	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.02	U		<0.0098	U		<0.0085	U		<0.014	U		0.0052	J		<0.0059	U		0.0014	J		0.0048	J		<0.011	U	
		VMP-8-23.5-081011	8/10/2011	0.025			<0.0065	J	U	0.0012	J		<0.0091	U		0.0022	J		<0.0039	U		0.015			<0.039	J	U	<0.0072	U	
		VMP-8-23.5-110611	11/6/2011	0.016			0.00033	J		<0.0041	U		<0.0066	U		<0.0065	J	U	<0.0028	U		0.012			<0.028	U		<0.0052	U	
		VMP-8-23.5-012312	1/23/2012	0.0094	J		<0.0052	J	U	<0.0045	U		<0.0073	U		0.0033	J		<0.0031	U		0.0046			<0.031	U		<0.0058	U	
		VMP-8-23.5-041012	4/10/2012	0.016			0.0013	J		<0.004	U		<0.0064	U		0.0017	J		<0.0028	U		0.018			<0.028	U		<0.0051	U	
		VMP-8-23.5-071312	7/13/2012	0.0054	J		<0.0051	U		<0.0044	U		<0.0071	U		<0.007	U		<0.003	U		<0.0039	J	U	<0.03	U		<0.0056	U	
		VMP-8-23.5-100412	10/4/2012	<0.014	U		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0028	J		<0.043	U		<0.0079	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	0.012			<0.0056	U		<0.0048	U		<0.0078	U		0.0023	J		<0.0034	U		0.0036	J		<0.034	U		<0.0062	U	
		VMP-9-5-111910	11/19/2010	0.028			<0.0058	U		0.0017	J		<0.0082	U		0.016			<0.0035	U		0.00064	J		<0.035	U		<0.0065	U	
		VMP-9-5-020811	2/8/2011	0.0021	J		<0.0054	U		<0.0047	U		<0.0076	U		0.001	J		<0.0032	U		0.0035	J		<0.033	J	U	<0.006	U	
		VMP-9-5-040611	4/6/2011	<0.03	U		<0.015	U		<0.013	U		<0.021	U		0.0058	J		<0.0089	U		0.0019	J		<0.09	J	U	<0.016	U	
		VMP-9-5-080211	8/2/2011	<0.58	U		<0.29	U		<0.25	U		<0.4	U		<0.4	U		<0.17	U		0.048	J		<1.8	U		<0.32	U	
		VMP-9-5-110411	11/4/2011	0.0073	J		<0.0043	J	U	<0.0037	U		<0.006	U		<0.0059	U		<0.0026	U		0.0076			<0.026	J	U	<0.0048	U	
		VMP-9-5-012612	1/26/2012	0.0072			<0.0037	U		<0.0032	U		<0.0051	U		<0.005	J	U	<0.0022	U		0.0058			<0.022	J	U	<0.0041	U	
		VMP-9-5-041112	4/11/2012	0.0037	J		0.0034	J		<0.0038	U		<0.0061	U		0.0013	J		<0.0026	U		0.0047			<0.026	U		<0.0049	U	
		VMP-9-5-071312	7/13/2012	0.074			<0.0047	J	U	<0.0041	J	U	<0.0066	U		<0.0065	U		0.0024	J		0.047			<0.028	U		<0.0052	U	
		VMP-9-5-101012	10/10/2012	0.0039	J		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0005	J		<0.043	U		<0.0079	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.25	U		<0.13	U		<0.11	U		<0.18	U		<0.17	U		<0.076	U		<0.097	U		<0.76	U		<0.14	U	
		VMP-9-11.5-111910	11/19/2010	<0.73	U		<0.37	U		<0.32	U		<0.51	U		<0.5	U		<0.22	U		<0.28	U		<2.2	U		<0.41	U	
		VMP-9-11.5-020911	2/9/2011	0.0094	J	J	<0.0066	U		<0.0057	U		<0.0092	U		0.0039	J		<0.004	U		<0.0051	U		<0.04	U		<0.0073	U	
		VMP-9-11.5-020911-DUP	2/9/2011	0.049		J	<0.0051	U		<0.0044	U		<0.0072	U		0.0037	J		<0.0031	U		0.0029	J		<0.031	U		<0.0057	U	
		VMP-9-11.5-040611	4/6/2011	<0.039	U		<0.019	U		<0.017	U		<0.027	U		0.0037	J		<0.012	U		<0.015	U		<0.12	J	U	<0.022	U	
		VMP-9-11.5-080211	8/2/2011	<0.86	U		<0.43	U		<0.37	U		<0.6	U		<0.6	U		<0.26	U		<0.33	U		<2.6	U		<0.48	U	
		VMP-9-11.5-110411	11/4/2011	0.017			<0.0043	J	U	<0.0037	U		<0.006	U		<0.0059	U		<0.0026	U		0.012			<0.026	J	U	<0.0048	U	
		VMP-9-11.5-012612	1/26/2012	0.012			<0.0038	U		0.00049	J		<0.0053	U		<0.0052	J	U	0.0025			0.009			<0.023	J	U	<0.0042	U	
		VMP-9-11.5-041112	4/11/2012	0.0045	J		<0.0045	U		<0.0039	U		<0.0063	U		0.0018	J		<0.0027	U		0.02			<0.027	U		<0.005	U	
		VMP-9-11.5-071312	7/13/2012	0.086			<0.0051	J	U	<0.0044	J	U	<0.0071	U		0.0021	J		0.0024	J		0.069			<0.03	U		<0.0056	U	
		VMP-9-11.5-101012	10/10/2012	0.063			<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		0.0014	J		0.0031	J		<0.041	U		<0.0075	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<2	U		0.14	J		<0.86	U		<1.4	U		<1.4	U		<0.59	U		<0.76	U		<6	U		<1.1	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<2.1	U		<1.1	U		<0.92	U		<1.5	U		<1.5	U		<0.64	U		<0.81	U		<6.4	U		<1.2	U	
		VMP-9-25.5-111910	11/19/2010	<2.3	U		<1.1	U		<0.98	U		<1.6	U		<1.6	U		<0.68	U		<0.87	U		<6.8	U		<1.2	U	
		VMP-9-25.5-020911	2/9/2011	<1.2	U		<0.62	U		<0.54	U		<0.86	U		<0.85	U		<0.37	U		<0.47	U		<3.7	U		<0.69	U	
		VMP-9-25.5-040811	4/8/2011	1			<0.31	U		0.084	J		<0.44	U		<0.43	U		<0.19	U		0.089	J		<1.9	U		<0.35	U	
		VMP-9-25.5-080211	8/2/2011	<1.4	U		<0.69	U		<0.6	U		<0.97	U		<0.96	U		<0.42	U		0.13	J	J	<4.2	U		<0.77	U	
		VMP-9-25.5-110711	11/7/2011	0.41	J		<0.61	U		<0.53	U		<0.85	U		0.28	J		<0.37	U		0.55			0.24	J		<0.68	U	
		VMP-9-25.5-110711-DUP	11/7/2011	0.58	J		<0.53	U		<0.46	U		<0.74	U		0.19	J		<0.32	U		0.57			<3.2	U		<0.59	U	
		VMP-9-25.5-012612	1/26/2012	<0.32	U		<0.16	U		<0.14	U		<0.22	U		<0.22	U		<0.095	U		0.048	J	J	<0.96	U		<0.18	U	
		VMP-9-25.5-041112	4/11/2012	<0.009	U		0.004	J		<0.0039	U		<0.0063	U		0.0014	J		<0.0027	U		0.053			<0.027	U		<0.005	U	
		VMP-9-25.5-071312	7/13/2012	0.093			<0.0048	J	U	0.0027	J		<0.0068	U		<0.0067	J	U	0.0036			0.077			<0.029	U		<0.0054	J	U
		VMP-9-25.5-071312-Dup	7/13/2012	0.11			<0.0047	J	U	0.003	J		<0.0066	U		<0.0065	J	U	0.004			0.075			<0.028	U		<0.0052	U	
		VMP-9-25.5-101012	10/10/2012	0.0087	J		<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.0012	J		<0.039	U		<0.0072	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<2	U		<1	U		<0.89	U		<1.4	U		<1.4	U		<0.62	U		<0.79	U		<6.2	U		<1.1	U	
		VMP-9-38.5-040811	4/8/2011	4.5			<1.4	U		0.24	J		<1.9	U		<1.9	U		<0.82	U		0.67	J		<8.2	U		<1.5	U	
		VMP-9-38.5-012612	1/26/2012	<0.41	U		<0.21	U		<0.18	U		<0.29	U		<0.28	U		<0.12	U		0.051	J	J	<1.2	U		<0.23	U	
		VMP-9-38.5-041112	4/11/2012	0.0078	J		<0.004	U		0.00065	J		<0.0055	U		<0.0055	U		<0.0024	U		0.1			<0.024	U		<0.0044	U	
		VMP-9-38.5-071312	7/13/2012	0.088			<0.0052	J	U	0.0037	J		<0.0073	U		<0.0072	J	U	0.0044			0.07			<0.031	U		<0.0058	U	
		VMP-9-38.5-101012	10/10/2012	0.004	J		<0.019	U		<0.017	U		<0.027	U		<0.027	U		<0.012	U		0.0023	J		<0.12	U		<0.021	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	0.012	J		<0.007	U		<0.006	U		<0.009	U		<0.009	U		0.0072			0.0014	J		<0.043	U		<0.007	U	
		VMP-18-8.5-090710	9/7/2010	0.014			<0.0063	J	U	<0.0055	U		<0.0088	J	U	<0.0088	J	U	<0.0038	U		0.0021	J		<0.038	J	U	0.0011	J	
		VMP-18-8.5-111910	11/19/2010	0.0036	J		<0.0053	U		<0.0046	U		<0.0074	U		<0.0073	U		<0.0032	U		<0.0041	U		<0.032	U		<0.0059	U	
		VMP-18-8.5-020711	2/7/2011	0.091		J	0.0029	J		<0.0051	U		<0.0082	U		<0.0081	U		<0.0035	U		0.013		J	<0.035	J	U	<0.0065	U	
		VMP-18-8.5-020711-DUP	2/7/2011	0.012		J	0.0017	J		<0.0049	U		<0.0079	U		<0.0078	U		<0.0034	U		0.0031	J	J	<0.034	J	U	<0.0062	U	
		VMP-18-8.5-040711	4/7/2011	<0.013	U		0.01			<0.0055	U		<0.0088	U		0.0036	J		<0.0038	U		0.0011	J		<0.038	J	U	<0.007	U	
		VMP-18-8.5-072811	7/28/2011	0.03			0.001	J		0.0021	J		<0.0095	U		<0.0094	U		0.0013	J		0.012			<0.041	U		<0.0075	U	
		VMP-18-8.5-110711	11/7/2011	0.012			<0.0044	U		<0.0038	U		<0.0061	U		<0.0061	U		<0.0026	U		0.01			<0.026	U		<0.0049	U	
		VMP-18-8.5-012312	1/23/2012	0.035			<0.0048	U		<0.0041	U		<0.0066	U		0.0026	J		<0.0029	U		0.0042			<0.029	U		<0.0053	U	
		VMP-18-8.5-041012	4/10/2012	0.14			<0.0049	J	U	<0.0043	J	U	<0.0069	U		<0.0068	J	U	0.01			0.036			<0.03	U		<0.0055	U	
		VMP-18-8.5-071212	7/12/2012	0.088			<0.0048	J	U	<0.0042	J	U	<0.0067	U		<0.0066	U		0.0024	J		0.05			<0.029	U		<0.0053	U	
		VMP-18-8.5-100912	10/9/2012	0.038			<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.0045	J		<0.039	U		<0.0072	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	0.024			<0.006	U		<0.005	U		<0.009	U		<0.009	J	U	<0.004	U		<0.005	U		<0.04	U		<0.007	U	
		VMP-19-5-090110	9/1/2010	0.58			<0.0063	J	U	<0.0055	U		<0.0088	U		<0.0088	J	U	<0.0038	U		<0.0049	U		<0.038	J	UJ	<0.007	U	
		VMP-19-5-111510	11/15/2010	0.0034	J		<0.0068	U		0.0065			<0.0095	U		0.0013	J		<0.0041	U		0.0014	J		<0.041	U		0.0014	J	
		VMP-19-5-020411	2/4/2011	0.0076	J		<0.0059	U		<0.0052	U		<0.0083	U		<0.0082	U		<0.0036	U		0.0018	J		<0.036	J	U	<0.0066	U	
		VMP-19-5-040711	4/7/2011	<0.013	U		<0.0066	U		<0.0058	U		<0.0093	U		0.0015	J		<0.004	U		0.0014	J		0.0031	J		<0.0074	U	
		VMP-19-5-080911	8/9/2011	0.026			<0.0073	J	U	<0.0063	J	U	<0.01	U		<0.01	J	U	<0.0044	U		0.032			<0.044	J	U	<0.0081	U	
		VMP-19-5-080911-DUP	8/9/2011	0.028			<0.0069	J	U	<0.006	J	U	<0.0097	U		<0.0096	J	U	<0.0042	U		0.027			<0.042	J	U	<0.0077	U	
		VMP-19-5-110811	11/8/2011	0.0078	J		<0.0048	U		<0.0042	U		<0.0067	U		<0.0066	U		<0.0029	U		0.014			<0.029	U		<0.0053	U	
		VMP-19-5-012612	1/26/2012	0.01			<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.0061			<0.025	U		<0.0047	U	
		VMP-19-5-041012	4/10/2012	0.076			<0.0048	J	U	<0.0042	J	U	<0.0067	U		<0.0066	J	U	0.0071			0.029			<0.029	U		<0.0053	U	
		VMP-19-5-071112	7/11/2012	<0.011	U		<0.0055	J	U	<0.0047	J	U	<0.0076	U		<0.0076	U		0.0017	J		0.059			<0.033	U		<0.0061	U	
		VMP-19-5-100912	10/9/2012	0.085			<0.0073	U		<0.0063	U		<0.01	U		<0.01	U		<0.0044	U		<0.0056	U		<0.044	U		<0.0081	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.012	U		0.0024	J		<0.0052	U		<0.0083	U		0.055			<0.0036	U		0.046			<0.036	U	UJ	<0.0066	U	
		VMP-20-5-041511	4/15/2011	<0.13	UJ	UJ	<0.065	U		<0.057	U		<0.091	U		<0.09	U		<0.039	U	UJ	<0.05	U		<0.39	U		<0.072	U	
		VMP-20-5-072511	7/25/2011	0.032			<0.0069	U		<0.006	J	U	<0.0097	U		<0.0096	U	UJ	<0.0042	U		0.014			<0.042	U		<0.0077	U	
		VMP-20-5-110111	11/1/2011	0.0083			<0.004	J	U	<0.0034	U		<0.0055	U		<0.0055	U		0.0012	J		0.019			<0.024	U		<0.0044	U	
		VMP-20-5-012312	1/23/2012	0.016	J		<0.019	U		<0.016	U		<0.026	U		<0.026	U		<0.011	U		0.03			<0.11	U		<0.021	U	
		VMP-20-5-041012	4/10/2012	0.18			<0.0043	U		<0.0037	U		<0.006	U		<0.0059	U		0.027			0.024			<0.026	U		<0.0048	U	
		VMP-20-5-071112	7/11/2012	0.0061	J		<0.0057	U		<0.005	U		<0.008	U		<0.0079	U		<0.0034	U		0.0024	J		<0.034	U		<0.0064	U	
		VMP-20-5-073112	7/31/2012	0.87			0.0004	J		0.0016	J		<0.0067	U		<0.0066	U		0.0011	J		0.072			<0.029	U		<0.0053	U	
		VMP-20-5-100412	10/4/2012	<0.014	U		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0013	J		<0.043	U		<0.0079	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.012	U		0.0023	J		<0.0052	U		<0.0083	U		0.0089			0.0018	J		0.0084			<0.036	U	UJ	<0.0066	U	
		VMP-20-10-041511	4/15/2011	<0.12	UJ	UJ	0.023	J		<0.052	U		<0.083	U		<0.082	U		<0.036	U	UJ	<0.046	U		<0.36	U		<0.066	U	
		VMP-20-10-072511	7/25/2011	0.026			<0.0063	U		0.0017	J		<0.0088	U		<0.0088	U	UJ	<0.0038	U		0.015			0.0043	J		<0.007	U	
		VMP-20-10-110111	11/1/2011	0.0066	J		<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.0095			<0.025	U		<0.0047	U	
		VMP-20-10-012312	1/23/2012	0.0092			<0.0044	J	U	<0.0038	U		<0.0061	U		0.00098	J		<0.0026	U		0.0082			<0.026	U		<0.0049	U	
		VMP-20-10-041012	4/10/2012	0.19			<0.0042	U		0.0012	J		<0.0059	U		<0.0058	U		0.045			0.028			<0.025	U		<0.0047	U	
		VMP-20-10-071112	7/11/2012	0.01			<0.0048	J	U	<0.0042	U		<0.0067	U		<0.0066	U		0.00078	J		0.005			<0.029	U		<0.0053	U	
		VMP-20-10-100412	10/4/2012	<0.013	U		<0.0066	U		<0.0057	U		<0.0092	U		<0.0091	U		<0.004	U		0.0019	J		<0.04	U		<0.0073	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.012	U		<0.0059	U		<0.0051	U		<0.0082	U		0.0068	J		<0.0035	U		0.0015	J		<0.035	U	UJ	<0.0065	U	
		VMP-20-25-041511	4/15/2011	<0.14	UJ	UJ	<0.068	U		<0.059	U		<0.095	U		<0.094	U		<0.041	U	UJ	<0.052	U		<0.41	U		<0.075	U	
		VMP-20-25-072611	7/26/2011	<0.9	U		<0.45	U		<0.39	U		<0.63	U		<0.62	U	UJ	<0.27	U		<0.35	U		<2.7	U		<0.5	U	
		VMP-20-25-110511	11/5/2011	0.0075	J		0.00026	J		0.00044	J		<0.0058	U		<0.0057	J	U	<0.0025	U		0.015			<0.025	U		<0.0046	U	
		VMP-20-25-012312	1/23/2012	0.011			<0.0046	J	U	<0.004	U		<0.0064	U		0.001	J		<0.0028	U		0.0064			<0.028	U		<0.0051	U	
		VMP-20-25-041012	4/10/2012	0.15			<0.0043	U		0.0007	J		<0.006	U		<0.0059	U		0.031			0.036			<0.026	U		<0.0048	U	
		VMP-20-25-041012-Dup	4/10/2012	0.16			0.00046	J		0.00062	J		<0.0061	U		<0.0061	U		0.033			0.038			<0.026	U		<0.0049	U	
		VMP-20-25-071112	7/11/2012	0.084			<0.0049	J	U	<0.0043	U		<0.0069	U		<0.0068	U		<0.003	U		0.014			<0.03	U		<0.0055	U	
		VMP-20-25-100412	10/4/2012	<0.014	U		<0.0073	U		<0.0063	U		<0.01	U		<0.01	U		<0.0044	U		0.0017	J		<0.044	U		<0.0081	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	1.4	J		<1.8	U		0.23	J		<2.5	U		<2.4	U		<1.1	U		1.7			<11	U		<2	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<4.6	U		<2.3	U		<2	U		<3.2	U		<3.2	U		<1.4	U		<1.8	U		<14	U		<2.5	U	
		VMP-21-5-020911-DUP	2/9/2011	<7.8	U		<3.9	U		<3.4	U		<5.4	U		<5.4	U		<2.3	U		<3	U		<24	U		<4.3	U	
		VMP-21-5-041311	4/13/2011	<0.013	U		0.0016	J		<0.0056	U		<0.0091	U		0.011			<0.0039	U		0.0027	J		<0.039	J	U	<0.0072	U	
		VMP-21-5-072511	7/25/2011	0.026			<0.0068	J	U	0.0023	J		<0.0095	U		0.0058	J	J	<0.0041	U		0.026			<0.041	U		<0.0075	U	
		VMP-21-5-110111	11/1/2011	0.012			0.016			<0.0048	U		<0.0078	U		<0.0077	U		0.0011	J		0.0074			<0.034	U		<0.0062	U	
		VMP-21-5-012312	1/23/2012	0.0048	J		<0.0048	J	U	0.00053	J		<0.0066	U		0.001	J		<0.0029	U		0.0052			<0.029	J	U	0.0032	J	
		VMP-21-5-012312-DUP	1/23/2012	0.0056	J		<0.0044	J	U	<0.0038	U		<0.0061	U		0.00076	J		<0.0026	U		0.0057			<0.026	U		0.0012	J	
		VMP-21-5-042412	4/24/2012	0.025			<0.009	U		<0.0078	U		<0.012	U		<0.012	U		<0.0054	U		0.011			<0.054	U		<0.01	U	
		VMP-21-5-071012	7/10/2012	0.21			0.0084			0.0015	J		<0.0073	U		<0.0072	U		0.02			0.01			<0.031	U		<0.0058	U	
		VMP-21-5-100412	10/4/2012	0.014	J		<0.0076	U		<0.0066	U		<0.011	U		0.0055	J		<0.0046	U		0.013			<0.046	U		<0.0085	U	
	10 ft	VMP-21-10-021011	2/10/2011	<4.1	U		<2.1	U		<1.8	U		<2.9	U		<2.8	U		<1.2	U		<1.6	U		<12	U		<2.3	U	
		VMP-21-10-041311	4/13/2011	0.16	J		<0.26	U		0.051	J		<0.36	U		<0.36	U		<0.16	U		<0.2	U		<1.6	U		<0.29	U	
		VMP-21-10-072511	7/25/2011	0.013	J		<0.014	U		<0.012	J	U	<0.02	U		0.0087	J	J	<0.0086	U		0.031			<0.087	U		<0.016	U	
		VMP-21-10-110111	11/1/2011	0.014			<0.0042	U		<0.0036	U		<0.0059	U		0.0059			0.0045			0.0073			<0.025	U		<0.0047	U	
		VMP-21-10-012312	1/23/2012	0.009	J		<0.0048	J	U	0.00052	J		<0.0066	U		0.0035	J		<0.0029	U		0.0062			<0.029	U		<0.0053	U	
		VMP-21-10-040912	4/9/2012	0.037			0.0006	J		0.0029	J		<0.006	U		<0.0059	U		<0.0026	U		0.059			<0.026	U		<0.0048	U	
		VMP-21-10-071012	7/10/2012	0.0022	J		<0.0049	U		<0.0043	U		<0.0069	U		0.0025	J		0.0038			<0.0038	J	U	<0.03	U		<0.0055	U	
		VMP-21-10-100412	10/4/2012	0.024			<0.0069	J	U	<0.006	U		<0.0097	U		0.0074	J		<0.0042	U		0.016			<0.042	U		<0.0077	U	
	25 ft	VMP-21-25-021011	2/10/2011	<11	U		<5.7	U		<5	U		<8	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-21-25-041411	4/14/2011	<40	UJ	UJ	<20	U		<17	U		<28	U		<28	U		<12	U	UJ	<15	U		<120	U		<22	U	
		VMP-21-25-041411-DUP	4/14/2011	<40	UJ	UJ	<20	U		<17	U		<28	U		<28	U		<12	U	UJ	<15	U		<120	U		<22	U	
		VMP-21-25-072611	7/26/2011	<13	U		<6.5	U		<5.6	U		<9.1	U		<9	U	UJ	<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-21-25-110511	11/5/2011	2.2	J		<4.1	U		<3.6	U		<5.8	U		1.5	J		<2.5	U		2.4	J		<25	U		<4.6	U	
		VMP-21-25-012412	1/24/2012	<0.11	U		<0.057	U		<0.049	U		<0.08	U		<0.079	U		<0.034	U		<0.044	U		<0.34	U		<0.063	U	
		VMP-21-25-040912	4/9/2012	0.012			<0.0045	U		<0.0039	U		<0.0063	U		0.0074			0.0014	J		0.017			<0.027	U		<0.005	U	
		VMP-21-25-071112	7/11/2012	0.015			<0.0045	J	U	<0.0039	U		<0.0063	U		0.0091			0.0013	J		0.0067			<0.027	U		<0.005	U	
		VMP-21-25-100412	10/4/2012	0.014	J		<0.0071	U		<0.0062	U		<0.0099	U		0.039			<0.0043	U		0.0092			<0.043	U		<0.0079	U	
	33 ft	VMP-21-33-021011	2/10/2011	<11	U		<5.7	U		<5	U		<8	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-21-33-041411	4/14/2011	<39	UJ	UJ	<19	U		<17	U		<27	U		<27	U		<12	U	UJ	8.9	J		<120	U		<21	U	
		VMP-21-33-110511	11/5/2011	0.4	J		<0.94	U		<0.81	U		<1.3	U		0.35	J		<0.56	U		0.55	J		<5.7	U		<1	U	
		VMP-21-33-012412	1/24/2012	<0.27	U		<0.13	U		<0.12	U		<0.19	U		<0.18	U		<0.081	U		0.033	J	J	<0.81	U		<0.15	U	
		VMP-21-33-042412	4/24/2012	0.015			<0.0046	U		0.00092	J		<0.0064	U		0.012			<0.0028	U		0.0082			<0.028	U		<0.0051	U	
		VMP-21-33-071112	7/11/2012	0.0034	J		<0.0048	U		<0.0042	U		<0.0067	U		0.0022	J		0.0017	J		<0.0037	J	U	<0.029	U		<0.0053	U	
		VMP-21-33-100412	10/4/2012	0.027			<0.0069	U		<0.006	J	U	<0.0097	U		0.01			<0.0042	U		0.012			<0.042	U		<0.0077	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.25	U		<0.13	U		<0.11	U		<0.18	U		<0.17	U		<0.076	U		<0.097	U		<0.76	U		<0.14	U	
		VMP-22-5-041811	4/18/2011	<0.12	UJ	UJ	<0.062	U		<0.054	U		<0.086	U		<0.085	U		<0.037	U	UJ	<0.047	U		<0.37	U		<0.069	U	
		VMP-22-5-072611	7/26/2011	0.04			0.0016	J		<0.0063	J	U	<0.01	U		<0.01	J	UJ	<0.0044	U		0.016			<0.044	J	U	<0.0081	U	
		VMP-22-5-110111	11/1/2011	0.012			<0.0041	U		<0.0036	U		<0.0058	U		<0.0057	U		<0.0025	U		0.011			<0.025	U		<0.0046	U	
		VMP-22-5-012412	1/24/2012	0.0081	J	J	<0.0044	J	U	<0.0038	U		<0.0061	U		<0.006	U		<0.0026	U		0.023		J	<0.026	U		<0.0048	U	
		VMP-22-5-040912	4/9/2012	0.012			<0.0048	U		<0.0042	U		<0.0067	U		<0.0066	U		<0.0029	U		0.0058			<0.029	U		<0.0053	U	
		VMP-22-5-070912	7/9/2012	0.0083	J		<0.0053	J	U	<0.0046	U		<0.0074	U		<0.0074	U		<0.0032	U		0.01			<0.032	U		<0.0059	U	
		VMP-22-5-100312	10/3/2012	0.0082	J		<0.0062	U		<0.0054	U		<0.0086	U		<0.0085	U		<0.0037	U		0.0018	J		<0.037	U		<0.0069	U	
		VMP-22-5-100312-Dup	10/3/2012	0.029			<0.0056	U		<0.0049	U		<0.0079	U		<0.0078	U		<0.0034	U		0.0066			<0.034	U		<0.0062	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.12	U		<0.06	U		<0.052	U		<0.084	U		<0.083	U		<0.036	U		<0.046	U		<0.36	U		<0.066	U	
		VMP-22-10-041811	4/18/2011	<0.13	UJ	UJ	<0.064	U		<0.056	U		<0.09	U		<0.088	U		<0.038	U	UJ	<0.049	U		<0.39	U		<0.071	U	
		VMP-22-10-072611	7/26/2011	0.016			0.001	J		0.0029	J		<0.01	U		<0.01	J	UJ	<0.0045	U		0.013			<0.045	J	U	<0.0083	U	
		VMP-22-10-072611-DUP	7/26/2011	0.018			0.0012	J		0.0028	J		<0.012	U		<0.012	U	UJ	<0.0052	U		0.012			<0.053	J	U	<0.0097	U	
		VMP-22-10-110211	11/2/2011	0.009			<0.0042	U		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.006			<0.025	U		<0.0047	U	
		VMP-22-10-012412	1/24/2012	0.011			<0.0048	J	U	<0.0041	U		<0.0066	U		0.0033	J		0.0014	J		0.0071			<0.029	U		<0.0053	U	
		VMP-22-10-040912	4/9/2012	0.012			0.0028	J		<0.0041	U		<0.0066	U		<0.0065	U		<0.0028	U		0.0052			<0.029	U		<0.0053	U	
		VMP-22-10-070912	7/9/2012	0.0054	J		<0.0053	U		<0.0046	U		<0.0074	U		<0.0074	U		<0.0032	U		<0.0041	J	U	<0.032	U		<0.0059	U	
		VMP-22-10-070912-Dup	7/9/2012	0.0066	J		<0.0052	U		<0.0045	U		<0.0073	U		<0.0072	U		<0.0031	U		0.0022	J		<0.031	U		<0.0058	U	
		VMP-22-10-100312	10/3/2012	0.021			<0.0059	U		<0.0052	U		<0.0083	U		<0.0082	U		<0.0036	U		0.0063			<0.036	U		<0.0066	U	
	18 ft	VMP-22-18-021111	2/11/2011	<2.1	U		<1	U		<0.9	U		<1.4	U		<1.4	U		<0.63	U		0.34	J		<6.3	U		<1.2	U	
		VMP-22-18-041811	4/18/2011	<8.8	UJ	UJ	<4.4	U		<3.8	U		<6.2	U		<6.1	U		<2.6	U	UJ	<3.4	U		<27	U		<4.9	U	
		VMP-22-18-072611	7/26/2011	<4.5	U		<2.3	U		<2	U		<3.2	U		<3.1	U	UJ	<1.4	U		<1.7	U		<14	U		<2.5	U	
		VMP-22-18-110511	11/5/2011	0.0073	J		0.00027	J		<0.0039	U		<0.0063	U		<0.0062	J	U	<0.0027	U		0.012			<0.027	U		<0.005	U	
		VMP-22-18-012412	1/24/2012	0.029	J	J	<0.041	U		<0.036	U		<0.058	U		<0.057	U		<0.025	U		<0.032	U		<0.25	U		<0.046	U	
		VMP-22-18-040912	4/9/2012	<0.0099	U		0.0013	J		<0.0043	U		<0.0069	U		<0.0068	U		<0.003	U		0.0038			<0.03	U		<0.0055	U	
		VMP-22-18-070912	7/9/2012	0.0074	J		<0.0052	U		<0.0045	U		<0.0073	U		<0.0072	U		<0.0031	U		0.0029	J		<0.031	U		<0.0058	U	
		VMP-22-18-100412	10/4/2012	0.033			<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		0.0066			0.0017	J		<0.043	U		<0.0079	U	
	38 ft	VMP-22-38-041811	4/18/2011	<27	UJ	UJ	<14	U		<12	U		<19	U		<19	U		<8.1	U	UJ	<10	U		<82	U		<15	U	
		VMP-22-38-012512	1/25/2012	<0.082	U		<0.041	U		<0.036	U		<0.058	U		<0.057	U		<0.025	U		<0.032	U		<0.25	U		<0.046	U	
		VMP-22-38-040912	4/9/2012	0.01			<0.0048	U		<0.0042	U		<0.0067	U		<0.0066	U		0.0012	J		0.013			<0.029	U		<0.0053	U	
		VMP-22-38-070912	7/9/2012	0.011			<0.0051	U		<0.0044	U		<0.0071	U		<0.007	U		<0.003	U		0.0028	J		<0.03	U		<0.0056	U	
		VMP-22-38-100412	10/4/2012	<0.015	U		<0.0074	U		<0.0064	U		<0.01	U		0.011			<0.0045	U		0.0026	J		<0.045	J	U	<0.0083	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	0.0033	J		<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.013			<0.039	U		<0.0072	U	
		VMP-23-5-042111	4/21/2011	0.015	J		<0.056	U		<0.49	U		<0.079	U		<0.078	U		<0.034	U		<0.043	U		<0.34	U		<0.062	U	
		VMP-23-5-072711	7/27/2011	0.14			0.00076	J		0.0013	J		<0.0091	U		<0.009	U		<0.0039	U		0.037			<0.039	U		<0.0072	U	
		VMP-23-5-110211	11/2/2011	0.014			<0.0046	U		<0.004	U		<0.0064	U		<0.0063	U		<0.0028	U		0.0098			<0.028	U		<0.0051	U	
		VMP-23-5-012512	1/25/2012	0.0018	J		0.0008	J		<0.0034	U		<0.0054	U		0.0021	J		<0.0023	U		0.0043			<0.023	U		<0.0043	U	
		VMP-23-5-040912	4/9/2012	0.023			<0.0047	U		<0.0041	U		<0.0066	U		<0.0065	U		0.026			0.022			<0.028	U		<0.0052	U	
		VMP-23-5-070912	7/9/2012	<0.0084	U		<0.0042	J	U	<0.0036	J	U	<0.0059	U		<0.0058	U		0.013			0.011			<0.025	U		<0.0047	U	
		VMP-23-5-100312	10/3/2012	<0.014	U		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0013	J		<0.043	J	U	<0.0079	U	
	10 ft	VMP-23-10-021511	2/15/2011	0.0045	J		<0.0067	J	U	<0.0058	U		<0.0094	U		0.0015	J		<0.004	U		0.0062			0.0094	J		<0.0074	U	
		VMP-23-10-042111	4/21/2011	0.012	J		<0.068	U		<0.59	U		<0.095	U		<0.094	U		<0.041	U		0.25			<0.41	U		<0.075	U	
		VMP-23-10-072711	7/27/2011	<0.012	U		<0.0062	U		<0.0054	U		<0.0086	U		<0.0085	U		<0.0037	U		<0.0047	U		<0.037	U		<0.0069	U	
		VMP-23-10-110211	11/2/2011	0.02			<0.0045	J	U	<0.0039	U		<0.0063	U		<0.0062	U		<0.0027	U		0.014			<0.027	U		<0.005	U	
		VMP-23-10-012512	1/25/2012	0.0064	J		0.00047	J		<0.0033	U		<0.0053	U		0.0031	J		<0.0023	U		0.017			<0.023	U		<0.0042	U	
		VMP-23-10-040912	4/9/2012	<0.0096	U		<0.0048	U		<0.0042	U		<0.0067	U		<0.0066	U		<0.0029	U		0.011			<0.029	U		<0.0053	U	
		VMP-23-10-040912-Dup	4/9/2012	0.0075	J		<0.0048	U		<0.0042	U		<0.0067	U		0.0056	J		0.0029			0.013			<0.029	U		<0.0053	U	
		VMP-23-10-070912	7/9/2012	0.0042	J		<0.0038	J	U	<0.0033	J	U	<0.0053	U		<0.0052	U		0.0047			<0.0029	J	U	<0.023	U		<0.0042	U	
		VMP-23-10-100312	10/3/2012	0.004	J		<0.0076	U		<0.0066	U		<0.011	U		<0.01	U		<0.0046	U		0.0018	J		<0.046	U		<0.0085	U	
	25 ft	VMP-23-25-021511	2/15/2011	0.094			<0.0062	U		<0.0054	U		<0.0086	U		<0.0085	U		<0.0037	U		0.0011	J		<0.037	U		<0.0069	U	
		VMP-23-25-042111	4/21/2011	<0.13	U		<0.063	U		<0.55	U		<0.088	U		<0.088	U		<0.038	U		<0.049	U		<0.38	U		<0.07	U	
		VMP-23-25-072711	7/27/2011	0.047			<0.0071	U		0.0021	J		<0.0099	U		<0.0098	U		<0.0043	U		0.016			0.012	J		<0.0079	U	
		VMP-23-25-110511	11/5/2011	0.019			<0.0045	U		<0.0039	U		<0.0063	U		<0.0062	J	U	<0.0027	U		0.015			<0.027	U		<0.005	U	
		VMP-23-25-012512	1/25/2012	0.0082			<0.004	U		<0.0035	U		<0.0056	U		0.0026	J		<0.0024	U		0.019			<0.024	U		<0.0045	U	
		VMP-23-25-040912	4/9/2012	0.63			0.0011	J		0.013			<0.0066	U		<0.0065	U		0.044			0.25			<0.028	U		<0.0052	U	
		VMP-23-25-071012	7/10/2012	0.002	J		<0.006	J	U	<0.0052	J	U	<0.0084	U		<0.0083	U		0.01			0.0058			<0.036	U		<0.0066	U	
		VMP-23-25-100312	10/3/2012	<0.015	U		<0.0074	U		<0.0064	U		<0.01	U		<0.01	U		<0.0045	U		0.0018	J		<0.045	U		<0.0083	U	
	40 ft	VMP-23-40-071012	7/10/2012	<0.01	U		<0.0051	J	U	<0.0044	J	U	<0.0071	U		<0.007	U		<0.003	U		0.0058			<0.03	U		<0.0056	U	
		VMP-23-40-100312	10/3/2012	0.0034	J		<0.0069	U		<0.006	U		<0.0096	U		<0.0095	U		<0.0041	U		0.0022	J		<0.042	U		<0.0077	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	0.0033	J		<0.0069	J	U	<0.006	U		<0.0097	U		<0.0096	U		<0.0042	U		<0.0053	J	U	<0.042	J	U	<0.0077	U	
		VMP-24-5-040811	4/8/2011	<0.15	U		<0.074	U		<0.064	U		<0.1	U		<0.1	U		<0.044	U		<0.057	U		<0.45	U		<0.082	U	
		VMP-24-5-072811	7/28/2011	0.019			0.0014	J		0.0018	J		<0.0097	U		<0.0096	U		<0.0042	U		0.045			0.0082	J		<0.0077	U	
		VMP-24-5-110211	11/2/2011	0.0072	J		<0.0046	J	U	<0.004	U		<0.0064	U		<0.0063	U		<0.0028	U		0.0068			<0.028	U		<0.0051	U	
		VMP-24-5-110211-DUP	11/2/2011	0.017			<0.0064	J	U	<0.0055	U		<0.0089	U		<0.0088	U		<0.0038	U		0.0069			<0.038	U		<0.0071	U	
		VMP-24-5-012512	1/25/2012	0.011			<0.004	U		<0.0034	U		<0.0055	U		<0.0055	U		0.00072	J		0.011			<0.024	U		<0.0044	U	
		VMP-24-5-040912	4/9/2012	0.16			0.0022	J		0.0044			<0.0066	U		<0.0065	U		0.038			0.045			<0.028	U		<0.0052	U	
		VMP-24-5-071212	7/12/2012	<0.009	U		0.002	J		<0.0039	J	U	<0.0063	U		<0.0062	U		0.0057			0.053			<0.027	U		<0.005	U	
		VMP-24-5-101912	10/19/2012	0.003	J		<0.007	U		<0.006	U		<0.0097	U		0.004	J		<0.0042	U		0.0023	J		<0.042	U		<0.0077	U	
	10 ft	VMP-24-10-021711	2/17/2011	0.0065	J		<0.0066	J	U	<0.0057	U		<0.0092	U		<0.0091	U		<0.004	U		<0.0051	J	U	<0.04	U		<0.0073	U	
		VMP-24-10-041111	4/11/2011	<0.025	U		<0.012	U		<0.011	U		<0.017	U		0.0033	J		<0.0074	U		0.0025	J		<0.075	U		<0.014	U	
		VMP-24-10-072811	7/28/2011	0.038			0.0011	J		0.0019	J		<0.0095	U		<0.0094	U		<0.0041	U		0.024			0.0052	J		<0.0075	U	
		VMP-24-10-110211	11/2/2011	0.011			<0.004	U		<0.0035	U		<0.0056	U		<0.0056	U		<0.0024	U		0.012			<0.024	U		<0.0045	U	
		VMP-24-10-012512	1/25/2012	0.0054	J		0.00041	J		<0.0033	U		<0.0053	U		<0.0052	U		<0.0023	U		0.0045			<0.023	U		<0.0042	U	
		VMP-24-10-041012	4/10/2012	0.1			<0.0045	U		<0.0039	U		<0.0063	U		<0.0062	U		0.022			0.076			<0.027	U		<0.005	U	
		VMP-24-10-071212	7/12/2012	0.045			<0.0052	J	U	<0.0045	J	U	<0.0073	U		<0.0072	U		0.0019	J		0.049			<0.031	U		<0.0058	U	
		VMP-24-10-100912	10/9/2012	0.074			<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		<0.0039	U		0.0042	J		<0.039	U		<0.0072	U	
	22 ft	VMP-24-22-021711	2/17/2011	0.0063	J		<0.0066	J	U	<0.0057	U		<0.0092	U		0.0014	J		<0.004	U		0.0049	J		<0.04	U		<0.0073	U	
		VMP-24-22-041111	4/11/2011	<0.012	U		<0.0062	U		<0.0054	U		<0.0086	U		0.0025	J		<0.0037	U		<0.0047	U		<0.037	U		<0.0069	U	
		VMP-24-22-072811	7/28/2011	0.014			0.00067	J		0.0014	J		<0.0086	U		<0.0085	U		<0.0037	U		0.006			0.0039	J		<0.0069	U	
		VMP-24-22-072811-Dup	7/28/2011	0.014			0.00064	J		0.0013	J		<0.0099	U		<0.0098	U		0.0042			0.009			<0.043	U		<0.0079	U	
		VMP-24-22-110611	11/6/2011	0.02			<0.0043	U		0.00052	J		<0.006	U		<0.0059	J	U	<0.0026	U		0.011			<0.026	U		<0.0048	U	
		VMP-24-22-012512	1/25/2012	0.0078	J		<0.004	U		<0.0035	U		<0.0056	U		<0.0056	U		<0.0024	U		0.0034			<0.024	U		<0.0045	U	
		VMP-24-22-041012	4/10/2012	0.21			<0.0044	U		<0.0038	U		<0.0061	U		<0.0061	U		0.032			0.066			0.015	J		<0.0049	U	
		VMP-24-22-071212	7/12/2012	0.03			<0.0053	U		<0.0046	J	U	<0.0074	U		<0.0074	U		0.0012	J		0.034			<0.032	U		<0.0059	U	
		VMP-24-22-100912	10/9/2012	0.051			<0.0066	U		<0.0057	U		<0.0092	U		<0.0091	U		<0.004	U		<0.0051	U		<0.04	U		<0.0073	U	
	34 ft	VMP-24-34-021711	2/17/2011	0.0026	J		<0.0066	U		<0.0057	U		<0.0092	U		<0.0091	U		0.0014	J		<0.0051	J	U	<0.04	U		<0.0073	U	
		VMP-24-34-041111	4/11/2011	0.0052	J		<0.0059	U		<0.0052	U		<0.0083	U		0.0021	J		<0.0036	U		0.00092	J		<0.036	U		<0.0066	U	
		VMP-24-34-072811	7/28/2011	0.02			0.00058	J		0.0015	J		<0.0073	U		<0.0072	U		<0.0031	U		0.0081			<0.032	U		<0.0058	U	
		VMP-24-34-110611	11/6/2011	0.017			0.00035	J		<0.0029	U		<0.0047	U		<0.0046	J	U	0.002	J		0.027			<0.02	U		<0.0037	U	
		VMP-24-34-012512	1/25/2012	0.0084			<0.0041	U		<0.0036	U		<0.0058	U		<0.0057	U		<0.0025	U		0.0051			0.0045	J		<0.0046	U	
		VMP-24-34-041012	4/10/2012	0.049			0.0025	J		0.0012	J		<0.0064	U		<0.0063	U		0.0033			0.02			<0.028	U		<0.0051	U	
		VMP-24-34-071212	7/12/2012	0.053			<0.0044	J	U	<0.0038	J	U	<0.0061	U		<0.0061	U		0.0013	J		0.038			<0.026	U		<0.0049	U	
		VMP-24-34-100912	10/9/2012	0.07			<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.0019	J		<0.041	U		<0.0075	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	0.039			<0.0047	U		0.0031	J		<0.0066	U		<0.0065	J	U	0.0046			0.02			<0.028	U		<0.0052	U	
		VMP-31-5-072012	7/20/2012	0.021			0.00036	J		<0.0041	U		<0.0066	U		<0.0065	U		0.0013	J		0.0099			<0.028	U		<0.0052	U	
		VMP-31-5-102612	10/26/2012	0.062		J	0.00077	J		0.00068	J		<0.0095	U		<0.0094	U		0.002	J		0.0099			<0.1	U	UJ	<0.0075	U	
	10 ft	VMP-31-10-042512	4/25/2012	0.033			<0.0063	J	U	0.0032	J		<0.0088	U		0.0051	J		0.03			0.018			<0.038	U		<0.007	U	
		VMP-31-10-072612	7/26/2012	0.012			0.00094	J		0.0035	J		<0.0067	U		0.0018	J		<0.0029	U		0.061			<0.029	U		<0.0053	U	
		VMP-31-10-102612	10/26/2012	0.12		J	0.0012	J		<0.0063	U		<0.01	U		<0.01	U		0.001	J		0.0065			<0.11	U	UJ	<0.0081	U	
	20 ft	VMP-31-20-101912	10/19/2012	<14	U		<6.8	U		<5.9	U		<9.5	U		<9.4	U		<4.1	U		0.66	J		<41	U		<7.5	U	
	30 ft	VMP-31-30-042512	4/25/2012	<4.8	U		1.2	J		<2.1	U		<3.4	U		<3.3	U		<1.4	U		1.4	J		<14	U		<2.7	U	
		VMP-31-30-042512-Dup	4/25/2012	<4.8	U		1.3	J		<2.1	U		<3.4	U		<3.3	U		<1.4	U		1.5	J		<14	U		<2.7	U	
		VMP-31-30-072012	7/20/2012	<0.94	U		<0.47	U		<0.41	U		<0.66	U		<0.65	U		<0.28	U		<0.36	U		<2.8	U		<0.52	U	
		VMP-31-30-101912	10/19/2012	<0.84	U		<0.42	U		<0.37	U		<0.59	U		<0.58	U		<0.25	U		0.087	J		<2.6	U		<0.47	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	0.1			<0.0046	J	U	0.0017	J		<0.0064	U		<0.0063	J	U	0.0059			0.023			<0.028	U		<0.0051	U	
		VMP-32-5-072012	7/20/2012	<0.0082	U		0.00058	J		<0.0036	U		0.002	J		<0.0057	U		<0.0025	U		0.0042			<0.025	U		<0.0046	U	
		VMP-32-5-101812	10/18/2012	0.0096	J		0.0009	J		<0.0068	U		<0.011	U		<0.011	U		<0.0047	U		0.0033	J		<0.12	U	UJ	<0.0087	U	
	10 ft	VMP-32-10-041612	4/16/2012	0.052			0.00054	J		0.00082	J		<0.0059	U		<0.0058	U		<0.0025	U		0.027			<0.025	U		<0.0047	J	U
		VMP-32-10-072012	7/20/2012	0.0046	J		0.00036	J		<0.0042	U		<0.0067	U		<0.0066	U		<0.0029	U		0.0042			<0.029	U		<0.0053	U	
		VMP-32-10-101812	10/18/2012	0.0041	J		<0.0073	U		<0.0063	U		<0.01	U		<0.01	U		<0.0044	U		0.0015	J		<0.11	U	UJ	<0.0081	U	
	20 ft	VMP-32-20-041612	4/16/2012	0.38			0.014	J		0.11			<0.13	U		<0.13	U		<0.058	U		0.23			0.19	J		<0.11	U	
		VMP-32-20-072012	7/20/2012	<0.0094	U		0.00037	J		<0.0041	U		<0.0066	U		<0.0065	U		0.0014	J		0.0057			<0.028	U		<0.0052	U	
		VMP-32-20-101812	10/18/2012	0.0048	J		0.0007	J		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.0023	J		<0.1	U	UJ	<0.0075	U	
	30 ft	VMP-32-30-041612	4/16/2012	<4.6	U		0.51	J		<2	U		<3.2	U		<3.2	U		<1.4	U		38			<14	U		<2.6	U	
		VMP-32-30-072012	7/20/2012	<9.5	U		<4.7	U		<4.1	U		<6.6	U		<6.5	U		3.2			12			<29	U		<5.3	U	
		VMP-32-30-101812	10/18/2012	<0.54	U		<0.27	U		<0.23	U		<0.38	U		<0.37	U		<0.16	U		<0.21	U		<1.6	U		<0.3	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	0.04			0.0006	J		<0.0036	U		<0.0059	U		<0.0058	U		<0.0025	U		0.024			<0.025	U		<0.0047	J	U
		VMP-42-10-041812-Dup	4/18/2012	0.034			0.00055	J		<0.0037	U		<0.006	U		<0.0059	U		<0.0026	U		0.022			<0.026	U		<0.0048	U	
		VMP-42-10-071912	7/19/2012	0.077			<0.0047	J	U	0.002	J		<0.0066	U		0.0032	J		0.0063			0.057			<0.028	U		<0.0052	U	
		VMP-42-10-101212	10/12/2012	0.026			<0.0076	U		<0.0066	U		<0.011	U		0.0075	J		<0.0046	U		0.011			<0.046	U		<0.0084	U	
	20 ft	VMP-42-20-041812	4/18/2012	6.2			<2.2	U		1.9	J		<3.1	U		<3	U		<1.3	U		6.8			3.5	J		<2.4	U	
		VMP-42-20-071912	7/19/2012	0.057			<0.0046	J	U	0.0019	J		<0.0064	U		0.0028	J		<0.0028	U		0.06			<0.028	U		<0.0051	U	
		VMP-42-20-101212	10/12/2012	0.009	J		<0.0067	U		<0.0058	U		<0.0094	U		<0.0092	U		<0.004	U		0.002	J		<0.04	U		<0.0074	U	
		VMP-42-20-101212-Dup	10/12/2012	0.014			<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		0.003	J		0.0087			<0.041	U		<0.0075	U	
	30 ft	VMP-42-30-041912	4/19/2012	<9.2	U		<4.6	U		<4	U		<6.4	U		<6.3	U		<2.8	U		<3.5	U		<28	U		<5.1	U	
		VMP-42-30-071912	7/19/2012	0.072		J	<0.0043	J	U	0.0026	J	J	<0.006	U		0.0033	J	J	<0.0026	U		0.073		J	<0.026	U		<0.0048	U	
		VMP-42-30-101212	10/12/2012	0.008	J		<0.0071	U		<0.0062	U		<0.0099	U		<0.0098	U		<0.0043	U		0.0036	J		<0.043	U		<0.0079	U	
		VMP-42-30-101212-Dup	10/12/2012	0.0045	J		<0.0071	U		<0.0062	U		0.0057	J		<0.0098	U		<0.0043	U		0.0034	J		<0.043	U		<0.0079	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	0.063			0.00071	J		0.0014	J		<0.0067	U		<0.0066	U		0.0071			0.03			<0.029	U		<0.0053	J	U
		VMP-43-10-071912	7/19/2012	0.052			0.0017	J		0.003	J		<0.013	U		0.0027	J		<0.0055	U		0.067			<0.056	U		<0.01	U	
		VMP-43-10-101612	10/16/2012	0.11			<0.0078	U		<0.0068	U		<0.011	U		<0.011	U		<0.0047	U		0.008			<0.12	U	UJ	<0.0087	U	
	20 ft	VMP-43-20-041612	4/16/2012	0.051	J		0.0061	J		<0.041	U		<0.066	U		<0.065	U		<0.028	U		0.031	J		<0.28	U		<0.052	U	
		VMP-43-20-071912	7/19/2012	0.1			<0.017	U		0.0029	J		<0.024	U		<0.023	U		<0.01	U		0.051			<0.1	U		<0.019	U	
		VMP-43-20-101812	10/18/2012	0.022			<0.0065	U		<0.0056	U		<0.0091	U		<0.009	U		0.0031	J		0.0092			<0.098	U	UJ	<0.0072	U	
	30 ft	VMP-43-30-042312	4/23/2012	0.042	J		<0.043	U		<0.037	U		<0.06	U		<0.059	U		<0.026	U		0.018	J		<0.26	U		<0.048	U	
		VMP-43-30-071912	7/19/2012	0.066			0.0016	J		0.002	J		<0.0066	U		0.0023	J		<0.0028	U		0.04			<0.028	U		<0.0052	U	
		VMP-43-30-101812	10/18/2012	0.0051	J		<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.002	J		<0.1	U	UJ	<0.0075	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<4.5	U		<2.2	U		<1.9	U		<3.1	U		<3.1	U		<1.3	U		0.59	J		<14	U		<2.5	U	
		VMP-44-10-072012	7/20/2012	<1.5	U		<0.75	U		<0.65	U		<1	U		<1	U		<0.45	U		0.78		J	<4.6	U		<0.84	U	
		VMP-44-10-081012	8/10/2012	<0.9	U		<0.45	U		<0.39	U		<0.63	U		<0.62	U		<0.27	U		0.55		J	<2.7	U		<0.5	U	
		VMP-44-10-101212	10/12/2012	<2.8	U		<1.4	U		<1.2	U		<1.9	U		0.35	J		<0.83	U		0.15	J		<8.4	U		<1.5	U	
	20 ft	VMP-44-20-041912	4/19/2012	<0.99	U		0.1	J		<0.43	U		<0.69	U		0.14	J		<0.3	U		1.2			<3	U		<0.55	U	
		VMP-44-20-072512	7/25/2012	<1.7	U		<0.84	U		<0.73	U		<1.2	U		<1.2	U		<0.5	U		0.32	J	J	<5.1	U		<0.94	U	
		VMP-44-20-101212	10/12/2012	<5.6	U		<2.8	U		<2.4	U		<3.9	U		0.53	J		<1.7	U		0.17	J		<17	U		<3.1	U	
	30 ft	VMP-44-30-041912	4/19/2012	<0.58	U		0.16	J		<0.25	U		<0.4	U		<0.4	U		<0.17	U		0.39			<1.7	U		<0.32	U	
		VMP-44-30-072512	7/25/2012	0.039	J		0.072			<0.042	U		<0.067	U		<0.066	U		<0.029	U		0.34			<0.29	U		<0.053	U	
		VMP-44-30-072512-Dup	7/25/2012	0.044	J		0.068			<0.042	U		<0.067	U		<0.066	U		<0.029	U		0.34			<0.29	U		<0.053	U	
		VMP-44-30-101512	10/15/2012	<0.59	U		<0.3	U		<0.26	U		<0.42	U		<0.41	U		<0.18	U		<0.23	U		<4.5	U		<0.33	U	
		VMP-44-30-101512-Dup	10/15/2012	<0.56	U		<0.28	U		<0.24	U		<0.39	U		<0.38	U		<0.17	U		<0.21	U		<4.2	U		<0.31	U	

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TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										1400						0.55						6200			11			6600		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	0.023			<0.0045	U		<0.0039	U		<0.0063	U		<0.0062	U		0.0044			0.02			<0.027	U		<0.005	J	U
		VMP-45-10-071912	7/19/2012	0.048			0.00071	J		0.0028	J		<0.0064	U		0.0031	J		0.0053			0.13			<0.028	U		<0.0051	U	
		VMP-45-10-101512	10/15/2012	<0.014	U		<0.0072	U		<0.0062	U		<0.01	U		<0.0099	U		<0.0043	U		0.0014	J		<0.043	U		<0.0079	U	
	20 ft	VMP-45-20-041912	4/19/2012	0.053	J		0.24	J		<0.24	U		<0.39	U		<0.39	U		<0.17	U		1.9			<1.7	U		<0.31	U	
		VMP-45-20-071912	7/19/2012	0.096	J		<0.088	U		0.026	J		<0.12	U		<0.12	U		<0.052	U		0.25			<0.53	U		<0.097	U	
		VMP-45-20-101512	10/15/2012	0.072			<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		0.0031	J		<0.041	U		<0.0075	U	
	30 ft	VMP-45-30-041912	4/19/2012	<0.38	U		0.16	J	J	<0.16	U		<0.26	U		<0.26	U		<0.11	U		0.18		J	<1.1	U		<0.21	U	
		VMP-45-30-071912	7/19/2012	<0.094	U		<0.047	U		<0.041	U		<0.066	U		<0.065	U		<0.028	U		0.086			<0.28	U		<0.052	U	
		VMP-45-30-101512	10/15/2012	0.003	J		<0.0068	U		<0.0059	U		<0.0095	U		<0.0094	U		<0.0041	U		<0.0052	J	U	<0.041	U		<0.0075	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.013	U		<0.0067	U		<0.0058	U		<0.0094	U		<0.0092	U		<0.004	U		<0.0051	J	U	<0.04	U		<0.0074	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	<0.023	U		<0.023	U		<0.024	U		<0.021	U		<0.021	U		0.74			<0.011	U		0.0024	J		<0.018	U	
		VMP-1-5-111710	11/17/2010	<0.028	U		<0.028	U		<0.029	U		<0.025	U		<0.025	U		5.3			<0.013	U		0.0043	J		<0.022	U	
		VMP-1-5-020411	2/4/2011	<0.55	U		<0.54	U		<0.57	U		<0.5	U		<0.5	U		270			<0.26	U		<0.44	U		<0.44	U	
		VMP-1-5-041211	4/12/2011	<0.0072	U		<0.0071	J	U	0.0012	J		0.0023	J		<0.0065	U		1.5			<0.0034	U		0.0056			<0.0057	U	
		VMP-1-5-080111	8/1/2011	<0.0072	U		0.01			<0.0074	U		0.0066			0.0019	J		0.14			<0.0034	U		0.0079			0.0029	J	
		VMP-1-5-110311	11/3/2011	<19	U		<19	U		<20	U	UJ	<17	U		<17	U		250			<8.9	U		<15	U		<15	U	
		VMP-1-5-013012	1/30/2012	<1.6	U		<1.6	U		<1.6	U		<1.4	U		<1.4	U		440		J	<0.74	U		<1.3	U		<1.3	U	
		VMP-1-5-041312	4/13/2012	<0.0049	U		<0.0048	U		0.0014	J		0.00086	J		<0.0044	U		0.017			<0.0023	U		0.0036	J		0.0013	J	
		VMP-1-5-071612	7/16/2012	<0.005	U		<0.0049	J	U	0.0013	J		0.0042	J		<0.0045	J	U	0.089			<0.0023	U		0.028			0.0086		
		VMP-1-5-101112	10/11/2012	<0.012	U		<0.012	U		<0.013	U		<0.011	U		<0.011	U		1.2			<0.0059	U		0.0034	J		<0.01	U	
	8.5 ft	VMP-1-8.5-082510	8/25/2010	<0.07	U		<0.069	U		<0.072	U		<0.063	U		<0.063	U		4.2			<0.033	U		<0.056	U		<0.056	U	
		VMP-1-8.5-111710	11/17/2010	<0.013	U		<0.013	J	U	<0.014	U		<0.012	U		<0.012	U		3.1			<0.0063	U		0.002	J		<0.011	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.013	U		<0.013	J	U	<0.014	U		<0.012	U		<0.012	U		2.8			<0.0063	U		0.0014	J		<0.011	U	
		VMP-1-8.5-020411	2/4/2011	<1.1	U		<1.1	U		<1.1	U		<0.98	U		<0.98	U		350			<0.51	U		<0.86	U		<0.86	U	
		VMP-1-8.5-041211	4/12/2011	<0.0095	U		0.0048	J		0.0012	J		0.0025	J		<0.0086	U		1.9			<0.0044	U		0.0047	J		<0.0076	U	
		VMP-1-8.5-080111	8/1/2011	<3.9	U		<3.9	U		<4	U		<3.5	U		<3.5	U		380			<1.8	U		<3.1	U		<3.1	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<3.8	U		<3.8	U		<4	U		<3.5	U		<3.5	U		360			<1.8	U		<3.1	U		<3.1	U	
		VMP-1-8.5-110311	11/3/2011	<44	U		<43	U		<45	U	UJ	<40	U		<40	U		480			<20	U		<35	U		<35	U	
		VMP-1-8.5-013012	1/30/2012	<9.5	U		<9.4	U		<9.8	U		<8.6	U		<8.6	U		320			<4.5	U		<7.6	U		<7.6	U	
		VMP-1-8.5-041612	4/16/2012	<0.0058	U		<0.0057	U		0.0018	J		<0.0052	U		0.00086	J		0.078			<0.0027	U		0.0073			0.0024	J	
		VMP-1-8.5-041612-Dup	4/16/2012	<0.0056	U		<0.0055	U		0.0019	J		0.0015	J		<0.0051	U		0.075			<0.0026	U		0.0068			0.0027	J	
		VMP-1-8.5-071612	7/16/2012	<0.005	U		<0.0049	J	U	0.0012	J		<0.0045	J	U	<0.0045	J	U	0.0041	J		<0.0024	U		0.02			0.0052		
		VMP-1-8.5-101112	10/11/2012	<0.0077	U		<0.0076	U		0.0014	J		<0.0069	U		<0.0069	U		0.82			<0.0036	U		<0.0061	U		<0.0061	U	
	23.5 ft	VMP - 1 - 23.5 - 083010	8/30/2010	<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		1600			<1.1	U		<1.9	U		<1.9	U	
		VMP-1-23.5-111810	11/17/2010	<0.0067	U		<0.0066	J	U	0.0014	J		<0.0061	U		<0.0061	U		0.06			<0.0032	U		<0.0054	J	U	<0.0054	U	
		VMP-1-23.5-020411	2/4/2011	<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1900			<3	U		<5	U		<5	U	
		VMP-1-23.5-041211	4/12/2011	<10	U		11			<11	U		<9.3	U		<9.3	U		110		J	<4.8	U		<8.2	U		<8.2	U	
		VMP-1-23.5-041211-DUP	4/12/2011	<13	U		2.2	J		<13	U		<12	U		<12	U		150		J	<6.1	U		<10	U		<10	U	
		VMP-1-23.5-080111	8/1/2011	<70	U		<69	U		<72	U		<63	U		<63	U		1000			<33	U		<56	U		<56	U	
		VMP-1-23.5-110611	11/6/2011	<17	U		<16	U		<17	U		<15	U		<15	U		710			<7.8	U		<13	U		<13	U	
		VMP-1-23.5-013112	1/31/2012	<33	U		<32	U		<34	U		<120	U		<29	U		420			<15	U		<26	U		<26	U	
		VMP-1-23.5-041612	4/16/2012	<2.6	U		<2.6	U		<2.7	U		<2.3	U		<2.3	U		76			<1.2	U		<2.1	U		<2.1	U	
		VMP-1-23.5-071612	7/16/2012	<33	U		<32	U		<34	U		<30	U		<30	U		240			<15	U		<26	U		<26	U	
		VMP-1-23.5-102412	10/24/2012	<66	U		<65	U		<68	U		<59	U		<59	U		180			<31	U		7	J		<52	U	
	38.5 ft	VMP-1-38.5-073112	7/31/2012	<0.0051	U		<0.005	U		0.0012	J		0.0044	J		<0.0046	U		0.0042	J		<0.0024	U		0.0084			0.0026	J	
		VMP-1-38.5-102612	10/26/2012	<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		58			<1.7	U		<2.8	U		<2.8	U	
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		1300			<1.1	U		<1.9	U		<1.9	U	
		VMP-2-5-111610	11/16/2010	<3.6	U		<3.5	U		<3.7	U		<3.2	U		<3.2	U		2000			<1.7	U		<2.9	U		<2.9	U	
		VMP-2-5-020411	2/4/2011	<0.94	U		<0.93	U		<0.97	U		<0.85	U		<0.85	U		570			<0.44	U		<0.75	U		<0.75	U	
		VMP-2-5-041311	4/13/2011	<0.0076	U		0.0042	J		0.0015	J		0.0022	J		<0.0068	U		1.1			<0.0036	U		0.0038	J		<0.006	U	
		VMP-2-5-080211	8/2/2011	<7.9	U		<7.8	U		<8.1	U		<7.1	U		<7.1	U		1300			<3.7	U		<6.3	U		<6.3	U	
		VMP-2-5-110711	11/7/2011	<0.0047	U		<0.0046	J	U	0.0011	J		<0.0042	U		<0.0042	U		0.053			<0.0022	U		0.0022	J		0.00071	J	
		VMP-2-5-012512	1/25/2012	<0.53	U		<0.52	U		<0.54	U		<0.48	U		<0.48	U		200			<0.25	U		0.14	J		<0.42	U	
		VMP-2-5-042512	4/25/2012	<0.021	U		<0.02	U		<0.021	U		<0.019	U		<0.019	U		12			<0.0098	U		0.0091	J		0.0042	J	
		VMP-2-5-071612	7/16/2012	<0.0051	U		<0.005	U		0.0012	J		0.0049			<0.0046	J	U	0.022			<0.0024	U		0.026			0.0071		
		VMP-2-5-102412	10/24/2012	<0.0078	U		<0.0077	U		0.0014	J		<0.007	J	U	<0.007	U		0.01			<0.0036	U		0.0044	J		0.0012	J	
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		2000			<1.2	U		<2	U		<2	U	
		VMP-2-8.5-111610	11/16/2010	<6.9	U		<6.8	U		<7.1	U		<6.2	U		<6.2	U		2000			<3.2	U		<5.5	U		<5.5	U	
		VMP-2-8.5-020411	2/4/2011	<2.3	U		<2.3	U		<2.4	U		<2.1	U		<2.1	U		830			<1.1	U		<1.9	U		<1.9	U	
		VMP-2-8.5-041311	4/13/2011	<0.72	U		0.095	J		0.12	J		<0.65	U		<0.65	U		140	B		<0.34	U		0.048	J		0.074	J	
		VMP-2-8.5-080211	8/2/2011	<29	U		<28	U		<30	U		<26	U		<26	U		1600			<14	U		<23	U		<23	U	
		VMP-2-8.5-110711	11/7/2011	<0.062	U		<0.061	U		<0.064	U	UJ	0.01	J		<0.056	U		14			<0.029	U		<0.05	U		<0.05	U	
		VMP-2-8.5-012612	1/26/2012	<2.8	U		<2.7	U		<2.8	U		<9.9	U		<2.5	U		510		J	<1.3	U		<2.2	U		<2.2	U	
		VMP-2-8.5-012612-DUP	1/26/2012	<2.8	U		<2.7	U		<2.8	U		<9.9	U		<2.5	U		770		J	<1.3	U		<2.2	U		<2.2	U	
		VMP-2-8.5-041612	4/16/2012	<0.0053	U		<0.0053	U		<0.0055	U		0.0018	J		<0.0048	U		0.19			<0.0025	U		0.0083			0.0035	J	
		VMP-2-8.5-041612-Dup	4/16/2012	<0.0055	U		<0.0054	U		0.0017	J		0.0018	J		<0.0049	U		0.19			<0.0026	U		0.0093			0.0037	J	
		VMP-2-8.5-071612	7/16/2012	<0.0061	U		<0.006	U		0.0024	J		0.0044	J		<0.0055	J	U	0.0073			<0.0029	U		0.018		J	0.0062		
		VMP-2-8.5-071612-Dup	7/16/2012	<0.005	U		<0.0049	J	U	0.0022	J		0.0088			0.0034	J		0.0046			<0.0024	U		0.028		J	0.0099		
		VMP-2-8.5-102312	10/23/2012	<0.0079	U		<0.0078	U		0.0016	J		0.0046	J		0.002	J		0.13			<0.0037	U		0.022			0.0074		
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	<3.8	U		<3.8	U		<4	U		<3.5	U		<3.5	U		2300			<1.8	U		<3.1	U		<3.1	U	
		VMP-2-22-111610	11/16/2010	<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		2300			<3.4	U		<5.7	U		<5.7	U	
		VMP-2-22-020411	2/4/2011	<3.2	U		<3.2	U		<3.3	U		<2.9	U		<2.9	U		1400			<1.5	U		<2.6	U		<2.6	U	
		VMP-2-22-041311	4/13/2011	<9.5	U		<9.4	U		<9.8	U		<8.6	U		<8.6	U		760	B		<4.5	U		<7.6	U		<7.6	U	
		VMP-2-22-080211	8/2/2011	<38	U		<38	U		<40	U		<35	U		<35	U		1500			<18	U		<31	U		<31	U	
		VMP-2-22-110711	11/7/2011	<2	U		<2	U		<2.1	U	UJ	<1.8	U		<1.8	U		120			<0.95	U		<1.6	U		<1.6	U	
		VMP-2-22-012612	1/26/2012	<4.2	U		<4.2	U		<4.4	U		<15	U		<3.8	U		650		J	<2	U		<3.4	U		<3.4	U	
		VMP-2-22-042712	4/27/2012	<0.0044	U		<0.0043	U		0.0011	J		0.0009	J		<0.004	U		0.077			<0.002	U		0.0048			0.0017	J	
		VMP-2-22-071612	7/16/2012	<0.0052	U		<0.0051	U		0.0021	J		0.0056			<0.0047	J	U	0.023			<0.0024	U		0.03			0.0094		
		VMP-2-22-102312	10/23/2012	<0.0079	U		<0.0078	U		0.0015	J		<0.0072	U		<0.0072	U		0.031			<0.0037	U		<0.0063	J	U	<0.0063	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	<7.2	U		<7.1	U		<7.5	U		<6.5	U		<6.5	U		1200			<3.4	U		<5.8	U		<5.8	U	
		VMP-3-5-112210	11/22/2010	<7.3	U		8.9			<7.6	U		<6.6	U		<6.6	U		1100			<3.4	U		2.3	J		<5.8	U	
		VMP-3-5-020911	2/9/2011	<3.3	U		<3.2	U		<3.4	U		<3	U		<3	U		460			<1.5	U		<2.6	U		<2.6	U	
		VMP-3-5-041411	4/14/2011	<35	U		<35	U		<36	U		<32	U		<32	U		1100			<17	U		<28	U		<28	U	
		VMP-3-5-080211	8/2/2011	<0.0085	U		<0.0084	U		<0.0087	U		0.0069	J		0.0018	J		0.37			<0.004	U		0.0074			0.0026	J	
		VMP-3-5-110811	11/8/2011	<0.0047	U		<0.0046	U		0.00096	J		<0.0042	J	U	<0.0042	U		<0.004	U		<0.0022	U		0.0017	J		<0.0037	U	
		VMP-3-5-110811-DUP	11/8/2011	<0.0048	U		<0.0047	U		0.00086	J		<0.0043	J	U	<0.0043	U		<0.0041	U		<0.0022	U		0.0015	J		0.00056	J	
		VMP-3-5-012712	1/27/2012	<2.4	U		<2.4	U		<2.4	U		<8.6	U		<2.2	U		260			<1.1	U		<1.9	U		<1.9	U	
		VMP-3-5-041912	4/19/2012	<0.0052	U		<0.0051	U		0.0017	J		0.0041	J		0.0013	J		0.098			<0.0024	U		0.015			0.0045		
		VMP-3-5-072712	7/27/2012	<0.0055	U		<0.0054	U		0.0018	J		0.0028	J		0.0011	J		0.0022	J		<0.0026	U		0.0056			0.0029	J	
	10 ft	VMP-3-10	6/21/2010	<8.3	U		<8.1	U		<8.5	U		4.3	J		1.4	J		3500			<3.9	U		2.9	J		<6.6	U	
		VMP 3-10-091010	9/10/2010	<23	U		<23	U		<24	U		<21	U		<21	U		3000			<11	U		<18	U		<18	U	
		VMP-3-10-092010	9/20/2010	<17	U		<17	U		<17	U		<15	U		<15	U		2400			<7.9	U		6.6	J		<13	U	
		VMP-3-10-112210	11/22/2010	<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		3200			<3.4	U		2.8	J		<5.7	U	
		VMP-3-10-112210-Dup	11/22/2010	<10	U		<9.9	U		<10	U		<9	U		<9	U		3100			<4.7	U		2.2	J		<8	U	
		VMP-3-10-020811	2/8/2011	<10	U		<10	U		<11	U		<9.5	U		<9.5	U		3300			<5	U		<8.4	U		<8.4	U	
		VMP-3-10-041311	4/13/2011	<61	U		<60	U		<63	U		<55	U		<55	U		1900			<29	U		<49	U		<49	U	
		VMP-3-10-080311	8/3/2011	<0.077	U		<0.076	U		<0.08	U		0.013	J		<0.07	U		26			<0.036	U		0.016	J		<0.062	U	
		VMP-3-10-110811	11/8/2011	<0.0064	U		<0.0063	U		<0.0065	U		0.0012	J		<0.0057	U		1.1			<0.003	U		0.0021	J		0.00084	J	
		VMP-3-10-012712	1/27/2012	<0.046	U		<0.045	U		<0.047	U		0.021	J		0.017	J		8.9			<0.021	U		0.03	J		0.019	J	
		VMP-3-10-042012	4/20/2012	<0.0047	U		<0.0046	J	U	0.0015	J		<0.0042	J	U	<0.0042	J	U	0.049			<0.0022	U		0.0048			0.0016	J	
		VMP-3-10-072312	7/23/2012	<0.0055	U		<0.0054	U		0.0012	J		0.0018	J		<0.0049	U		0.68			<0.0026	U		0.0024	J		0.0012	J	
		VMP-3-10-101812	10/18/2012	<0.0083	U		<0.0081	U		0.0035	J		0.0042	J	J	0.018			0.25			<0.0039	U		0.028			0.017		
	22 ft	VMP-3-22-092010	9/20/2010	<22	U		<22	U		<23	U		5.3	J		<20	U		3200			<10	U		26			11	J	
		VMP-3-22-112210	11/22/2010	<25	U		<25	U		<26	U		<23	U		<23	U		4100			<12	U		8.8	J		<20	U	
		VMP-3-22-020811	2/8/2011	<12	U		<12	U		<13	U		<11	U		<11	U		2900			<5.8	U		7.6	J		<9.9	U	
		VMP-3-22-041511	4/15/2011	<68	U		<67	U		<70	U		<61	U		<61	U		2200			<32	U		<54	U		<54	U	
		VMP-3-22-080611	8/6/2011	<0.11	U		<0.11	U		<0.11	U		0.014	J		<0.097	U		23			<0.05	U		0.045	J		<0.086	U	
		VMP-3-22-110811	11/8/2011	<0.0048	U		<0.0047	U		0.00099	J		<0.0043	J	U	<0.0043	U		0.78			<0.0022	U		<0.0038	J	U	0.00063	J	
		VMP-3-22-013012	1/30/2012	<0.019	U		<0.019	U		<0.02	U		<0.017	U		<0.017	U		5.9			<0.0089	U		0.0083	J		<0.015	U	
		VMP-3-22-042012	4/20/2012	<0.0048	U		0.002	J		0.0012	J		<0.0043	J	U	<0.0043	U		0.28			<0.0022	U		0.0032	J		0.0011	J	
		VMP-3-22-072312	7/23/2012	<0.0053	U		<0.0053	U		0.00097	J		0.00091	J		<0.0048	U		0.01			<0.0025	U		0.0013	J		<0.0042	U	
		VMP-3-22-101812	10/18/2012	<0.0081	U		<0.008	U		<0.0083	U		<0.0073	U	UJ	<0.0073	U		0.012			<0.0038	U		0.003	J		<0.0064	U	
	31.5 ft	VMP-3-31.5-090910	9/9/2010	<41	U		<41	U		<43	U		38			17	J		8300			<19	U		87			26	J	
		VMP-3-31.5-112210	11/22/2010	<29	U		<28	U		<30	U		9.8	J		<26	U		8000			<14	U		68			19	J	
		VMP-3-31.5-020911	2/9/2011	<28	U		<27	U		<28	U		<25	U		<25	U		3200			<13	U		54			13	J	
		VMP-3-31.5-041411	4/14/2011	<230	U		<220	U		<230	U		<200	U		<200	U		4300			<110	U		<180	U		<180	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<230	U		<220	U		<230	U		<200	U		<200	U		3900			<110	U		<180	U		<180	U	
		VMP-3-31.5-080211	8/2/2011	<510	U		<500	U		<530	U		<460	U		<460	U		9100			<240	U		<410	U		<410	U	
		VMP-3-31.5-080211-Dup	8/2/2011	<300	U		<300	U		<310	U		<270	U		<270	U		13000			<140	U		<240	U		<240	U	
		VMP-3-31.5-110811	11/8/2011	<12	U		<12	U		<12	U		<11	U		<11	U		650			<5.6	U		1.8	J		<9.5	U	
		VMP-3-31.5-012712	1/27/2012	<76	U		<74	U		<78	U		<270	U		<68	U		2900		J	<35	U		<60	U		<60	U	
		VMP-3-31.5-041912	4/19/2012	<130	U		<130	U		<130	U		<120	U		<120	U		9600			<61	U		<100	U		<100	U	
		VMP-3-31.5-041912-Dup	4/19/2012	<120	U		<120	U		<130	U		<110	U		<110	U		9800			<58	U		<99	U		<99	U	
		VMP-3-31.5-072312	7/23/2012	<31	U		<31	U		<32	U		<28	U		<28	U		5300			<15	U		<25	U		<25	U	
		VMP-3-31.5-101912	10/19/2012	<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		39			<1.2	U		0.22	J		<2	U	
	39 ft	VMP-3-39-101912	10/19/2012	<250	U		<250	U		<260	U		<230	U		<230	U		4200			<120	U		84	J		<200	U	
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	<0.39	U		<0.39	U		<0.4	U		0.054	J		<0.35	U		220			<0.18	U		<0.31	U		<0.31	U	
		VMP-4-5-112210	11/22/2010	<15	U		<14	U		<15	U		<13	U		<13	U		1800			<6.9	U		11	J		<12	U	
		VMP-4-5-021411	2/14/2011	<0.86	U		<0.85	U		<0.88	U		<0.77	U		<0.77	U		260			<0.4	U		0.45	J		<0.68	U	
		VMP-4-5-041911	4/19/2011	<40	U		<39	U		<41	U		<36	U		<36	U		1100			<18	U		<31	U		<31	U	
		VMP-4-5-080311	8/3/2011	<0.085	U		<0.084	U		<0.087	U		0.016	J		<0.076	U		28			<0.04	U		0.012	J		<0.068	U	
		VMP-4-5-110911	11/9/2011	<0.0047	U		<0.0046	U		0.00092	J		<0.0042	J	U	<0.0042	J	U	0.92			<0.0022	U		0.0025	J		0.0013	J	
		VMP-4-5-013012	1/30/2012	<0.24	U		<0.24	U		<0.24	U		<0.22	U		<0.22	U		170		J	<0.11	U		<0.19	U		<0.19	U	
		VMP-4-5-042512	4/25/2012	<0.0059	U		<0.0058	U		0.0014	J		0.0041	J		<0.0053	J	U	0.47			<0.0028	U		0.018			0.0059		
		VMP-4-5-072512	7/25/2012	<0.0058	U		<0.0058	U		0.00096	J		0.007			0.0028	J		0.02			<0.0027	U		0.043			0.013		
		VMP-4-5-101812	10/18/2012	<0.0085	U		<0.0084	U		<0.0087	U		0.0019	J	J	<0.0076	U		0.007	J		<0.004	U		0.0022	J		<0.0068	U	
	12 ft	VMP-4-12-082510	8/25/2010	<6.9	U		<6.8	U		<7.1	U		1.8	J		1.5	J		1400			<3.2	U		5.6			<5.5	U	
		VMP-4-12-112310	11/23/2010	<7	U		<6.9	U		<7.2	U		3.5	J		2.6	J		1300			<3.3	U		6.2			<5.6	U	
		VMP-4-12-021411	2/14/2011	<1.8	U		<1.7	U		<1.8	U		<1.6	U		0.52	J		600			<0.83	U		2.8			0.72	J	
		VMP-4-12-041911	4/19/2011	<34	U		<34	U		<35	U		<31	U		<31	U		1200			<16	U		51			7.6	J	
		VMP-4-12-080311	8/3/2011	<3.9	U		<3.9	U		<4	U		<3.5	U		<3.5	U		440			<1.8	U		0.77	J		<3.1	U	
		VMP-4-12-080311-Dup	8/3/2011	<7.9	U		<7.8	U		<8.1	U		<7.1	U		<7.1	U		390			<3.7	U		<6.3	U		<6.3	U	
		VMP-4-12-110911	11/9/2011	<1.2	U		<1.2	U	UJ	<1.1	U		<1.1	U		<1.1	U		64			<0.56	U		<0.95	U		<0.95	U	
		VMP-4-12-013012	1/30/2012	<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		380			<1.1	U		1.6	J		<1.9	U	
		VMP-4-12-041812	4/18/2012	<0.0055	U		<0.0054	U		<0.0056	U		0.0017	J		0.0007	J		0.092			<0.0026	U		0.011			0.0025	J	
		VMP-4-12-072312	7/23/2012	<0.026	U		<0.026	U		<0.027	U		0.029			0.014	J		0.46			<0.012	U		0.21			0.068		
		VMP-4-12-101812	10/18/2012	<0.0083	U		<0.0081	U		<0.0085	U		0.0012	J	J	<0.0074	U		0.0064	J		<0.0039	U		0.042			0.008		
		VMP-4-12-101812-Dup	10/18/2012	<0.0085	U		<0.0084	U		<0.0087	U		0.004	J	J	0.002	J		0.01			<0.004	U		0.051			0.011		
	23.5 ft	VMP - 4 - 23.5 - 083110	8/31/2010	<7.9	U		<7.8	U		<8.1	U		190		J	66		J	5800		J	<3.7	U		1800		J	600		J
		VMP-4-23.5-112310	11/23/2010	<79	U		<78	U		<82	U		31	J		<72	U		4800			<37	U		1100			310		
		VMP-4-23.5-021411	2/14/2011	<2.9	U		<2.8	U		<3	U		<2.6	U		<2.6	U		2400		J	<1.4	U		130		J	30		J
		VMP-4-23.5-042011	4/20/2011	<180	U		<180	U		<190	U		<160	U		<160	U		5200			<86	U		900			230		
		VMP-4-23.5-042011-DUP	4/20/2011	<180	U		<180	U		<190	U		<160	U		<160	U		4800			<86	U		830			230		
		VMP-4-23.5-080611	8/6/2011	<7.7	U		<7.6	U		<7.9	U		11			6.1	J		2800			<3.6	U		320			91		
		VMP-4-23.5-110911	11/9/2011	<23	U		<22	U		<24	U		<21	U		<21	U		1500			<11	U		4.2	J		<18	U	
		VMP-4-23.5-013012	1/30/2012	<49	U		<48	U		<50	U		<44	U		<44	U		4800		J	<23	U		190		J	34	J	J
		VMP-4-23.5-013012-DUP	1/30/2012	<34	U		<34	U		<35	U		<31	U		<31	U		3300		J	<16	U		57		J	8.8	J	
		VMP-4-23.5-041912	4/19/2012	<11	U		<10	U		<11	U		<9.6	U		<9.6	U		2400			<5	U		13			4.4	J	
		VMP-4-23.5-072312	7/23/2012	<5.1	U		<5	U		<5.3	U		<4.6	U		4.9			1500			<2.4	U		210			60		
		VMP-4-23.5-101812	10/18/2012	<5.6	U		<5.5	U		<5.8	U		<5.1	U		<5.1	U		110			<2.6	U		7.2			2.6	J	
	39 ft	VMP-4-39-042111	4/21/2011	<230	U		<220	U		<240	U		<210	U		<210	U		4300			<110	U		670			170	J	
		VMP-4-39-041912	4/19/2012	<5.5	U		<5.4	U		<5.6	U		5.1			2.6	J		3100			<2.6	U		200			53		
		VMP-4-39-072312	7/23/2012	<8.2	U		<8.1	U		<8.5	U		<7.4	U		<7.4	U		3500		J	<3.8	U		310		J	83		J
		VMP-4-39-101812	10/18/2012	<100	U		<100	U		<110	U		<93	U		<93	U		1500			<48	U		190			44	J	
		VMP-4-39-101812-Dup	10/18/2012	<94	U		<93	U		<97	U		<85	U		<85	U		1500			<44	U		190			47	J	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	<14	U		<14	U		<15	U		13			6.9	J		1600			<6.7	U		9	J		6.4	J	
		VMP-5-5-112210	11/22/2010	<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		1700			<1.6	U		<2.8	U		<2.8	U	
		VMP-5-5-021611	2/16/2011	<0.022	U		<0.022	U		<0.023	U		<0.02	U		<0.02	U		24			<0.01	U		0.0062	J	J	<0.018	U	
		VMP-5-5-042111	4/21/2011	<0.072	U		<0.071	U		<0.074	U		<0.065	U		<0.065	U		0.097			<0.034	U		<0.057	U		<0.057	U	
		VMP-5-5-080511	8/5/2011	<0.0069	U		<0.0068	J	U	0.0014	J		0.002	J		<0.0062	U		0.23			<0.0032	U		0.0083			0.0024	J	
		VMP-5-5-111111	11/11/2011	<0.0051	U		<0.005	U		<0.0052	U		0.0023	J		0.0013	J		0.97			<0.0024	U		0.0059			0.0016	J	
		VMP-5-5-013012	1/30/2012	<0.051	U		0.015	J		0.011	J		0.032	J		0.011	J		2.3			<0.024	U		0.08			0.026	J	
		VMP-5-5-041112	4/11/2012	<0.005	U		0.0081			<0.0051	U		0.0026	J		0.00093	J		0.0063			<0.0023	U		0.0074			0.0021	J	
		VMP-5-5-071312	7/13/2012	<0.0055	U		<0.0054	U		0.0016	J		<0.005	J	U	<0.005	J	U	<0.0047	J	U	<0.0026	U		<0.0044	J	U	<0.0044	J	U
		VMP-5-5-101212	10/12/2012	<0.0069	U		<0.0068	U		0.0015	J		<0.0062	U		<0.0062	U		0.004	J		<0.0032	U		<0.0055	U		<0.0055	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<7.2	U		<7.1	U		<7.4	U		6.1	J		3	J		1500			<3.4	U		3.2	J		2.2	J	
		VMP-5-12.5-112310	11/23/2010	<0.36	U		<0.35	U		<0.37	U		<0.32	U		<0.32	U		110			<0.17	U		0.2	J		<0.29	U	
		VMP-5-12.5-021611	2/16/2011	<1.1	U		<1.1	U		<1.1	U		<0.98	U		<0.98	U		170			<0.51	U		<0.86	U		<0.86	U	
		VMP-5-12.5-042111	4/21/2011	<0.077	U		<0.076	U		<0.079	U		<0.069	U		<0.069	U		0.081			<0.036	U		<0.061	U		<0.061	U	
		VMP-5-12.5-080611	8/6/2011	<6.8	U		<6.7	U		<7	U		<6.1	U		<6.1	U		810			<3.2	U		<5.4	U		<5.4	U	
		VMP-5-12.5-111111	11/11/2011	<0.0048	U		0.0017	J		<0.0049	U		0.0014	J		0.00061	J		0.0093			<0.0022	U		0.0025	J		0.00074	J	
		VMP-5-12.5-013012	1/30/2012	<0.016	U		<0.015	U		<0.016	U		<0.014	U		<0.014	U		0.72			<0.0073	U		0.0094	J		0.0027	J	
		VMP-5-12.5-041112	4/11/2012	<0.0048	U		0.0012	J		0.0014	J		0.0011	J		<0.0043	U		0.0032	J		<0.0022	U		0.0044			0.0013	J	
		VMP-5-12.5-071212	7/12/2012	<0.0056	U		<0.0055	U		0.0014	J		0.12			0.022			<0.0048	U		<0.0026	U		0.012			0.0036	J	
		VMP-5-12.5-101112	10/11/2012	<0.013	U		<0.013	U		<0.014	U		<0.012	U		<0.012	U		0.009	J		<0.0062	U		<0.011	U		<0.011	U	
	31 ft	VMP-5-31-090910	9/9/2010	<30	U		<30	U		<31	U		<27	U		<27	U		4400			<14	U		7.7	J		<24	U	
		VMP-5-31-112310	11/23/2010	<19	U		<18	U		<19	U		<17	U		<17	U		4700			<8.8	U		12	J		<15	U	
		VMP-5-31-021611	2/16/2011	<7.5	U		<7.4	U		<7.8	U		<6.8	U		<6.8	U		3100			<3.5	U		5.5	J		<6	U	
		VMP-5-31-042111	4/21/2011	<110	U		<110	U		<120	U		<100	U		<100	U		3800			<53	U		<89	U		<89	U	
		VMP-5-31-080611	8/6/2011	<63	U		<62	U		<65	U		<57	U		<57	U		3700			<30	U		<50	U		<50	U	
		VMP-5-31-111111	11/11/2011	<32	U		<31	U		<33	U		<29	U		<29	U		3000			<15	U		6.9	J		<25	U	
		VMP-5-31-013012	1/30/2012	<16	U		<16	U		<17	U		<15	U		<15	U		2900			<7.6	U		<13	U		<13	U	
		VMP-5-31-041112	4/11/2012	<0.052	U		<0.051	U		<0.054	U		<0.047	U		<0.047	U		4.8			<0.024	U		0.012	J		<0.041	U	
		VMP-5-31-071212	7/12/2012	<0.0055	U		<0.0054	U		0.0015	J		<0.0049	J	U	<0.0049	U		0.3			<0.0026	U		<0.0044	J	U	<0.0044	U	
		VMP-5-31-101112	10/11/2012	<0.0077	U		<0.0076	U		0.0013	J		<0.0069	U		<0.0069	U		0.048			<0.0036	U		<0.0061	U		<0.0061	U	
	40 ft	VMP-5-40-042111	4/21/2011	<120	U		<120	U		<120	U		<100	U		<100	U		3500			<55	U		<94	U		<94	U	
		VMP-5-40-013012	1/30/2012	<34	U		<34	U		<35	U		<31	U		<31	U		2500			<16	U		<27	U		<27	U	
		VMP-5-40-041212	4/12/2012	<0.051	U		<0.05	U		<0.052	U		<0.046	U		<0.046	U		24			<0.024	U		0.02	J		<0.041	U	
		VMP-5-40-071212	7/12/2012	<0.055	U		<0.054	U		<0.056	U		<0.049	U		<0.049	U		2			<0.026	U		<0.044	U		<0.044	U	
		VMP-5-40-101112	10/11/2012	<0.0081	U		<0.008	U		0.0027	J		<0.0073	U		<0.0073	U		1.1			<0.0038	U		<0.0064	U		<0.0064	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<1.2	U		<1.2	U		<1.2	U		0.74	J		0.34	J		340			<0.56	U		0.47	J		0.33	J	
		VMP-6-5-111610	11/16/2010	<7.5	U		<7.4	U		<7.8	U		<6.8	U		<6.8	U		2300			<3.5	U		3.4	J		<6	U	
		VMP-6-5-020711	2/7/2011	<0.0065	U		0.0022	J		0.0013	J		0.0071			0.0031	J		0.96			<0.003	U		0.025			0.01		
		VMP-6-5-040811	4/8/2011	<0.014	U		<0.014	U		<0.014	U		<0.013	J	U	<0.013	U		1.3			<0.0066	U		0.0039	J		<0.011	U	
		VMP-6-5-080411	8/4/2011	<0.36	U		<0.36	U		<0.38	U		<0.33	U		<0.33	U		6.5			<0.17	U		0.16	J		<0.29	U	
		VMP-6-5-110911	11/9/2011	<0.0044	U		<0.0043	U		0.00095	J		0.028			0.02			0.071			<0.002	U		0.13			0.056		
		VMP-6-5-013112	1/31/2012	<0.052	U		<0.051	U		<0.053	U		<0.047	U		<0.047	U		2.9			<0.024	U		0.014	J		<0.041	U	
		VMP-6-5-041212	4/12/2012	<0.0055	U		<0.0054	U		<0.0056	U		0.0017	J		<0.0049	U		0.04			<0.0026	U		0.0046			0.0023	J	
		VMP-6-5-071612	7/16/2012	<0.0055	U		<0.0054	U		0.0014	J		<0.0049	J	U	<0.0049	J	U	0.0025	J		<0.0026	U		0.0032	J		0.0011	J	
		VMP-6-5-101012	10/10/2012	<0.0075	U		<0.0074	U		0.00089	J		<0.0068	U		<0.0068	U		0.016			<0.0035	U		<0.006	U		<0.006	U	
	10 ft	VMP-6-10-090810	9/8/2010	<1.3	U		<1.3	U		<1.3	U		0.62	J	J	0.29	J	J	930		J	<0.61	U		0.83	J	J	0.32	J	J
		VMP-6-10-111710	11/17/2010	<0.007	U		<0.0069	J	U	0.00081	J		<0.0063	U		<0.0063	U		0.039			<0.0033	U		<0.0056	J	U	<0.0056	U	
		VMP-6-10-020711	2/7/2011	<0.0069	U		0.0018	J		<0.0071	U		<0.0062	U		<0.0062	U		0.061			<0.0032	U		<0.0055	U		<0.0055	U	
		VMP-6-10-040811	4/8/2011	<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		52			<0.077	U		0.032	J		<0.13	U	
		VMP-6-10-080411	8/4/2011	<1.2	U		<1.2	U		<1.2	U		<1	U		<1	U		940			<0.55	U		<0.93	U		<0.93	U	
		VMP-6-10-111011	11/10/2011	<0.0046	U		<0.0045	U		<0.0047	U		0.00076	J		<0.0041	U		0.0065			<0.0021	U		0.0012	J		<0.0036	U	
		VMP-6-10-013112	1/31/2012	<0.81	U		<0.8	U		<0.84	U		<2.9	U		<0.73	U		310		J	<0.38	U		<0.65	U		<0.65	U	
		VMP-6-10-041212	4/12/2012	<0.0053	U		<0.0052	U		0.0015	J		0.0018	J		<0.0048	U		0.024			<0.0025	U		0.0043			0.002	J	
		VMP-6-10-071612	7/16/2012	<0.0072	U		<0.0071	U		0.0013	J		<0.0065	J	U	<0.0065	J	U	0.0054	J		<0.0034	U		0.0038	J		<0.0057	J	U
		VMP-6-10-101112	10/11/2012	<0.0079	U		<0.0078	U		0.0015	J		<0.0071	U		<0.0071	U		0.043			<0.0037	U		<0.0063	U		<0.0063	U	
	31.5 ft	VMP-6-31.5-090810	9/8/2010	<8.8	U		<8.6	U		<9	U		22			5.3	J		3100			<4.1	U		51			<7	U	
		VMP-6-31.5-111710	11/17/2010	<14	U		<14	U		<14	U		15			3.1	J		3600			<6.4	U		45			<11	U	
		VMP-6-31.5-020711	2/7/2011	<13	U		<13	U		<14	U		27			4.2	J		3200			<6.2	U		64			<10	U	
		VMP-6-31.5-041111	4/11/2011	<10	U		<10	U		<10	U		14			<9.2	U		2400			<4.8	U		28			<8.1	U	
		VMP-6-31.5-080411	8/4/2011	<7.6	U		<7.5	U		<7.8	U		<6.8	U		<6.8	U		2000			<3.6	U		5.2	J		<6	U	
		VMP-6-31.5-111011	11/10/2011	<12	U		<12	U		<12	U		<10	U		<10	U		2200			<5.5	U		<9.3	U		<9.3	U	
		VMP-6-31.5-013112	1/31/2012	<4.7	U		<4.6	U		<4.8	U		<17	U		<4.2	U		1800		J	<2.2	U		1.8	J	J	<3.7	U	
		VMP-6-31.5-041212	4/12/2012	<0.62	U		<0.62	U		<0.64	U		<0.56	U		<0.56	U		220			<0.29	U		0.13	J		<0.5	U	
		VMP-6-31.5-071612	7/16/2012	<0.0099	U		<0.0097	U		<0.01	U		0.0049	J		<0.0089	J	U	3.1			<0.0046	U		0.0035	J		0.0024	J	
		VMP-6-31.5-101112	10/11/2012	<0.0077	U		0.0055	J		0.0021	J		<0.0069	U		<0.0069	U		0.71			<0.0036	U		<0.0061	U		<0.0061	U	
	39 ft	VMP-6-39-041111	4/11/2011	<12	U		<12	U		<12	U		21			3.4	J		2300			<5.7	U		41			<9.7	U	
		VMP-6-39-013112	1/31/2012	<4.7	U		<4.6	U		<4.8	U		<17	U		<4.2	U		2200		J	<2.2	U		4.3		J	<3.7	U	
		VMP-6-39-041212	4/12/2012	<0.46	U		<0.45	U		<0.47	U		0.73			0.48			340			<0.21	U		2			<0.36	U	
		VMP-6-39-071612	7/16/2012	<0.021	U		<0.021	U		<0.022	U		<0.019	U		<0.019	U		8.1			<0.01	U		0.0063	J		<0.017	U	
		VMP-6-39-071612-Dup	7/16/2012	<0.022	U		<0.021	U		<0.022	U		<0.02	U		<0.02	U		8.2			<0.01	U		<0.017	U		<0.017	U	
		VMP-6-39-101112	10/11/2012	<0.015	U		<0.014	U		<0.015	U		<0.013	U		<0.013	U		4.9			<0.0069	U		<0.012	U		<0.012	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	<0.0072	U		<0.0071	U		0.0016	J		<0.0065	U		<0.0065	U		0.034			<0.0034	U		0.00071	J		<0.0057	U	
		VMP-7-5-111910	11/19/2010	<0.0065	U		0.0036	J		<0.0067	U		<0.0058	U		<0.0058	U		0.14			<0.003	U		<0.0052	U		<0.0052	U	
		VMP-7-5-020711	2/7/2011	<0.007	U		0.0039	J		0.0018	J		<0.0063	U		<0.0063	U		0.084			<0.0033	U		0.00082	J		<0.0056	U	
		VMP-7-5-040711	4/7/2011	<0.0099	U		0.0032	J		<0.01	U		<0.0089	U		<0.0089	U		0.01			<0.0046	U		<0.0079	U		<0.0079	U	
		VMP-7-5-080211	8/2/2011	<0.98	U		<0.97	U		<1	U		<0.89	U		<0.89	U		710			<0.46	U		<0.78	U		<0.78	U	
		VMP-7-5-111011	11/10/2011	<0.0047	U		<0.0046	U		<0.0048	U		<0.0042	J	U	<0.0042	U		<0.004	U		<0.0022	U		<0.0037	J	U	<0.0037	U	
		VMP-7-5-111011-DUP	11/10/2011	<0.0044	U		<0.0043	U		<0.0045	U		0.0008	J		<0.004	U		<0.0038	U		<0.002	U		0.0011	J		<0.0035	U	
		VMP-7-5-013112	1/31/2012	<0.0048	U		<0.0047	U		<0.0049	U		<0.0043	U		<0.0043	J	U	0.00086	J		<0.0022	U		0.0032	J		0.001	J	
		VMP-7-5-041212	4/12/2012	<0.0052	U		<0.0051	U		0.0014	J		0.0022	J		<0.0047	J	U	0.0048			<0.0024	U		0.0097			0.0028	J	
		VMP-7-5-073112	7/31/2012	<0.013	U		<0.013	U		<0.014	U		0.0017	J		<0.012	U		3			<0.0063	U		0.0098	J		0.0031	J	
		VMP-7-5-101012	10/10/2012	<0.0081	U		<0.008	U		0.0014	J		<0.0073	U		<0.0073	U		0.0033	J		<0.0038	U		<0.0064	U		<0.0064	U	
	13.5 ft	VMP-7-13.5-082610	8/26/2010	<0.16	U		<0.16	U		<0.16	U		<0.14	U		<0.14	U		240	E	J	<0.074	U		<0.12	U		<0.12	U	
		VMP-7-13.5-111910	11/19/2010	<1.1	U		1.9		J	<1.1	U		<0.99	U		<0.99	U		450			<0.52	U		<0.87	U		<0.87	U	
		VMP-7-13.5-020711	2/7/2011	<0.0067	U		0.0023	J		<0.0069	U		<0.0061	U		<0.0061	U		0.034			<0.0032	U		<0.0054	U		<0.0054	U	
		VMP-7-13.5-040711	4/7/2011	<0.012	U		0.0038	J		<0.012	U		<0.011	U		<0.011	U		0.017			<0.0055	U		<0.0094	U		<0.0094	U	
		VMP-7-13.5-080311	8/3/2011	<1.3	U		<1.3	U		<1.4	U		<1.2	U		<1.2	U		610			<0.62	U		<1	U		<1	U	
		VMP-7-13.5-111011	11/10/2011	<0.0043	U		<0.0042	U		<0.0044	U		0.0052			0.0011	J		2.9			<0.002	U		0.0058			0.00072	J	
		VMP-7-13.5-013112	1/31/2012	<0.061	U		<0.06	U		<0.063	U		<0.22	U		<0.055	U		33		J	<0.029	U		<0.049	U		<0.049	U	
		VMP-7-13.5-013112-DUP	1/31/2012	<0.062	U		<0.062	U		<0.064	U		<0.22	U		<0.056	U		32		J	<0.029	U		<0.05	U		<0.05	U	
		VMP-7-13.5-041212	4/12/2012	<0.005	U		<0.0049	U		0.0013	J		0.0018	J		<0.0045	U		0.029			<0.0023	U		0.0058			0.0018	J	
		VMP-7-13.5-041212-DUP	4/12/2012	<0.0053	U		<0.0052	U		0.0011	J		0.0016	J		<0.0047	U		0.015			<0.0025	U		0.0058			0.002	J	
		VMP-7-13.5-072012	7/20/2012	<0.0051	U		<0.005	U		0.0013	J		0.0028	J		<0.0046	U		0.0018	J		<0.0024	U		0.0074			0.0019	J	
		VMP-7-13.5-101012	10/10/2012	<0.0075	U		<0.0074	U		0.0014	J		<0.0068	U		<0.0068	U		0.011			<0.0035	U		<0.006	U		<0.006	U	
	29.5 ft	VMP - 7 - 29.5 - 083110	8/31/2010	<2.2	U		<2.2	U		<2.3	U		<2	U		<2	U		1300		J	<1	U		1.6	J	J	<1.8	U	
		VMP-7-29.5-111910	11/19/2010	<3.4	U		<3.3	U		<3.5	U		<3	U		<3	U		1100		J	<1.6	U		0.91	J	J	<2.7	U	
		VMP-7-29.5-020711	2/7/2011	<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		1100			<1.6	U		1.8	J		<2.8	U	
		VMP-7-29.5-040711	4/7/2011	<0.85	U		<0.84	U		<0.88	U		<0.77	U		<0.77	U		550		J	<0.4	U		0.77		J	<0.68	U	
		VMP-7-29.5-080311	8/3/2011	<2	U		<2	U		<2.1	U		<1.8	U		<1.8	U		950			<0.94	U		0.36	J		<1.6	U	
		VMP-7-29.5-111111	11/11/2011	<4	U		<3.9	U		<4.1	U		4.1			1.4	J		720			<1.8	U		12			2.7	J	
		VMP-7-29.5-020112	2/1/2012	<0.8	U		<0.78	U		<0.82	U		<2.9	U	UJ	<0.72	U		560		J	<0.37	U		<0.63	U		<0.63	U	
		VMP-7-29.5-041312	4/13/2012	<0.005	U		<0.0049	U		0.0011	J		0.0072			0.0018	J		0.71			<0.0023	U		0.0073			0.0038	J	
		VMP-7-29.5-072012	7/20/2012	<0.0051	U		<0.005	U		0.0012	J		0.0032	J		<0.0046	U		0.031			<0.0024	U		0.0073			0.0026	J	
		VMP-7-29.5-072012-Dup	7/20/2012	<0.0051	U		<0.005	U		0.0013	J		0.0035	J		0.00098	J		0.029			<0.0024	U		0.0081			0.0033	J	
		VMP-7-29.5-101012	10/10/2012	<0.0079	U		<0.0078	U		0.0014	J		<0.0071	U		<0.0071	U		0.013			<0.0037	U		<0.0063	U		<0.0063	U	
	38 ft	VMP-7-38-020711	2/7/2011	<4.7	U		<4.6	U		<4.9	U		<4.2	U		<4.2	U		920			<2.2	U		1.1	J		<3.8	U	
		VMP-7-38-040711	4/7/2011	<1.2	U		<1.2	U		<1.2	U		<1.1	U		<1.1	U		720		J	<0.56	U		0.42	J	J	<0.96	U	
		VMP-7-38-020112	2/1/2012	<1.1	U		<1.1	U		<1.2	U		<4.1	U	UJ	<1	U		630		J	<0.54	U		<0.91	U		<0.91	U	
		VMP-7-38-042512	4/25/2012	<0.005	U		<0.0049	U		0.0012	J		<0.0045	J	U	<0.0045	J	U	0.32		J	<0.0023	U		0.01			0.0032	J	
		VMP-7-38-042512-Dup	4/25/2012	<0.005	U		<0.0049	J	U	0.0015	J		<0.0045	J	U	<0.0045	J	U	0.23		J	<0.0023	U		0.009			0.0031	J	
		VMP-7-38-101112	10/11/2012	<0.0073	U		<0.0072	U		0.0011	J		<0.0066	U		<0.0066	U		0.011			<0.0034	U		<0.0058	U		<0.0058	U	
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	0.0009	J		0.0027	J		0.0013	J		0.0015	J		<0.0066	U		0.011			<0.0034	U		0.0014	J		<0.0058	U	
		VMP-8-5-111810	11/17/2010	<0.0064	U		<0.0063	J	U	0.0013	J		<0.0057	J	U	<0.0057	U		0.00032	J		<0.003	U		<0.005	J	U	<0.005	U	
		VMP-8-5-021011	2/10/2011	<0.0067	U		<0.0066	U		<0.0069	U		<0.0061	U		<0.0061	U		0.027			<0.0032	U		<0.0054	U		<0.0054	U	
		VMP-8-5-040711	4/7/2011	<0.0075	U		0.003	J		0.0011	J		<0.0068	U		<0.0068	U		0.003	J		<0.0035	U		0.0018	J		<0.006	U	
		VMP-8-5-072711	7/27/2011	<0.0081	U		<0.008	U		<0.0083	U		0.004	J		0.0013	J		0.011			<0.0038	U		0.0064			0.002	J	
		VMP-8-5-110311	11/3/2011	<0.0047	U		<0.0046	U		0.0012	J		0.00078	J		<0.0042	U		0.0024	J		<0.0022	U		0.0076			0.0015	J	
		VMP-8-5-012312	1/23/2012	<0.0058	U		<0.0057	U		0.0014	J		<0.0052	U		<0.0052	U		0.006			<0.0027	U		0.0013	J		<0.0046	U	
		VMP-8-5-041012	4/10/2012	<0.0052	U		0.0012	J		<0.0054	U		0.0015	J		<0.0047	U		0.045			<0.0024	U		0.0026	J		0.00069	J	
		VMP-8-5-071312	7/13/2012	<0.0044	U		<0.0043	U		<0.0045	U		<0.004	J	U	<0.004	U		<0.0038	U		<0.002	U		<0.0035	J	U	<0.0035	U	
		VMP-8-5-073112	7/31/2012	<0.0056	U		<0.0055	U		0.0011	J		0.0019	J		<0.0051	U		0.11			<0.0026	U		0.012			0.0034	J	
		VMP-8-5-100412	10/4/2012	<0.0075	U		<0.0074	U		<0.0078	U		<0.0068	J	U	<0.0068	U		<0.0064	J	U	<0.0035	U		<0.006	U		<0.006	U	
		VMP-8-5-100412-Dup	10/4/2012	<0.0072	U		<0.0071	U		<0.0074	U		<0.0065	U		<0.0065	U		<0.0062	U		<0.0034	U		<0.0057	U		<0.0057	U	
	9.5 ft	VMP - 8 - 9.5 - 083010	8/30/2010	0.00075	J		0.0027	J		0.0014	J		0.00098	J		<0.0059	U		0.0024	J		<0.0031	U		0.0013	J		<0.0052	U	
		VMP - 8 - 9.5 - 083010-DUP	8/30/2010	0.00084	J		0.0019	J		0.0017	J		0.00079	J		<0.0061	U		0.0016	J		<0.0032	U		<0.0054	U		<0.0054	U	
		VMP-8-9.5-111810	11/17/2010	<0.0066	U		<0.0065	J	U	0.0011	J		<0.0059	U		<0.0059	U		0.0034	J		<0.0031	U		<0.0052	U		<0.0052	U	
		VMP-8-9.5-021011	2/10/2011	<0.0069	U		<0.0068	U		0.0013	J		<0.0062	U		<0.0062	U		0.0077			<0.0032	U		<0.0055	U		<0.0055	U	
		VMP-8-9.5-040711	4/7/2011	<0.0075	U		0.0036	J		<0.0078	U		<0.0068	U		<0.0068	U		0.0028	J		<0.0035	U		0.00063	J		<0.006	U	
		VMP-8-9.5-072711	7/27/2011	<0.0058	U		<0.0057	U		0.0014	J		0.0035	J		0.0011	J		0.0083			<0.0027	U		0.0079			0.0024	J	
		VMP-8-9.5-110311	11/3/2011	<0.0046	U		<0.0045	U		0.0012	J		0.0025	J		0.00057	J		0.0022	J		<0.0021	U		0.012			0.0027	J	
		VMP-8-9.5-012312	1/23/2012	<0.0055	U		0.027			0.0012	J		<0.005	U		<0.005	U		0.0069			<0.0026	U		0.0032	J		0.001	J	
		VMP-8-9.5-041012	4/10/2012	<0.0052	U		0.0014	J		<0.0054	U		<0.0047	U		<0.0047	U		0.056			<0.0024	U		0.00097	J		<0.0041	U	
		VMP-8-9.5-071312	7/13/2012	<0.0051	U		<0.005	U		0.0013	J		<0.0046	U		<0.0046	U		<0.0044	U		<0.0024	U		<0.0041	U		<0.0041	U	
		VMP-8-9.5-071312-Dup	7/13/2012	<0.0049	U		<0.0048	U		0.00099	J		<0.0044	U		<0.0044	U		<0.0042	U		<0.0023	U		<0.0039	U		<0.0039	U	
		VMP-8-9.5-100412	10/4/2012	<0.0083	U		<0.0081	U		0.0015	J		<0.0074	J	U	<0.0074	U		0.075			<0.0039	U		0.0042	J		<0.0066	U	
	23.5 ft	VMP - 8 - 23.5 - 083010	8/30/2010	0.001	J		0.002	J		0.0017	J		<0.0065	U		<0.0065	U		0.0073			<0.0034	U		<0.0057	U		<0.0057	U	
		VMP-8-23.5-111910	11/19/2010	<0.0069	U		0.0064	J		<0.0071	U		<0.0062	U		<0.0062	U		0.0061			<0.0032	U		0.001	J		<0.0055	U	
		VMP-8-23.5-021011	2/10/2011	<0.0073	U		<0.0072	U		0.0013	J		<0.0066	U		<0.0066	U		0.018			<0.0034	U		<0.0058	U		<0.0058	U	
		VMP-8-23.5-040711	4/7/2011	<0.0069	U		0.003	J		0.00098	J		<0.0062	U		<0.0062	U		0.0023	J		<0.0032	U		0.0012	J		<0.0055	U	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0025	J		0.006	J		<0.011	U		<0.0098	U		<0.0098	U		0.0018	J		<0.0051	U		0.001	J		<0.0087	U	
		VMP-8-23.5-081011	8/10/2011	<0.0072	U		<0.0071	U		0.0014	J		0.0024	J		<0.0065	J	U	0.031			<0.0034	U		0.0055	J		0.0016	J	
		VMP-8-23.5-110611	11/6/2011	<0.0052	U		<0.0051	U		0.0012	J		<0.0047	U		<0.0047	U		0.001	J		<0.0024	U		0.0026	J		0.00092	J	
		VMP-8-23.5-012312	1/23/2012	<0.0058	U		<0.0057	U		0.0014	J		<0.0052	U		<0.0052	U		0.0037	J		<0.0027	U		0.0033	J		0.00092	J	
		VMP-8-23.5-041012	4/10/2012	<0.0051	U		<0.005	U		<0.0052	U		0.00075	J		<0.0046	U		0.066			<0.0024	U		0.0011	J		<0.0041	U	
		VMP-8-23.5-071312	7/13/2012	<0.0056	U		<0.0055	U		0.0012	J		<0.0051	U		<0.0051	U		<0.0048	U		<0.0026	U		<0.0045	U		<0.0045	U	
		VMP-8-23.5-100412	10/4/2012	<0.0079	U		<0.0078	U		0.0014	J		<0.0071	U		<0.0071	U		0.069			<0.0037	U		<0.0063	U		<0.0063	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	<0.0062	U		<0.0061	U		<0.0064	U		<0.0056	U		<0.0056	U		0.029			<0.0029	U		0.0013	J		<0.005	U	
		VMP-9-5-111910	11/19/2010	<0.0065	U		0.0037	J		<0.0067	U		<0.0058	U		<0.0058	U		0.0075			<0.003	U		<0.0052	U		<0.0052	U	
		VMP-9-5-020811	2/8/2011	<0.006	U		0.0014	J		0.0011	J		<0.0054	U		<0.0054	U		0.002	J		<0.0028	U		<0.0048	U		<0.0048	U	
		VMP-9-5-040611	4/6/2011	<0.016	U		0.0077	J		<0.017	U		<0.015	U		<0.015	U		0.022			<0.0077	U		<0.013	U		<0.013	U	
		VMP-9-5-080211	8/2/2011	<0.32	U		<0.32	U		<0.33	U		<0.29	U		<0.29	U		150			<0.15	U		<0.26	U		<0.26	U	
		VMP-9-5-110411	11/4/2011	<0.0048	U		<0.0047	U		<0.0049	U		0.0016	J		<0.0043	J	U	0.38			<0.0022	U		<0.0038	J	U	<0.0038	U	
		VMP-9-5-012612	1/26/2012	<0.0041	U		0.0017	J		0.00055	J		<0.0037	U		<0.0037	U		1.1			<0.0019	U		0.0018	J		0.00064	J	
		VMP-9-5-041112	4/11/2012	<0.0049	U		<0.0048	U		<0.005	U		0.0012	J		<0.0044	U		0.087			<0.0023	U		0.0025	J		<0.0039	U	
		VMP-9-5-071312	7/13/2012	<0.0052	U		<0.0051	U		0.0013	J		<0.0047	U		<0.0047	U		0.0031	J		<0.0024	U		0.0062			<0.0041	J	U
		VMP-9-5-101012	10/10/2012	<0.0079	U		<0.0078	U		0.0014	J		<0.0071	U		<0.0071	U		0.016			<0.0037	U		<0.0063	U		<0.0063	U	
	11.5 ft	VMP-9-11.5-082610	8/26/2010	<0.14	U		<0.14	U		<0.14	U		<0.13	U		<0.13	U		98			<0.066	U		<0.11	U		<0.11	U	
		VMP-9-11.5-111910	11/19/2010	<0.41	U		0.37	J		<0.42	U		<0.37	U		<0.37	U		150			<0.19	U		<0.32	U		<0.32	U	
		VMP-9-11.5-020911	2/9/2011	<0.0073	U		<0.0072	U		<0.0076	U		<0.0066	U		<0.0066	U		0.0073			<0.0034	U		<0.0058	U		<0.0058	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0057	U		<0.0056	U		<0.0059	U		<0.0051	U		<0.0051	U		0.0074			<0.0027	U		<0.0045	U		<0.0045	U	
		VMP-9-11.5-040611	4/6/2011	<0.022	U		0.011	J		<0.022	U		<0.019	U		<0.019	U		0.0075	J		<0.01	U		<0.017	U		<0.017	U	
		VMP-9-11.5-080211	8/2/2011	<0.48	U		<0.47	U		<0.49	U		<0.43	U		<0.43	U		310			<0.22	U		<0.38	U		<0.38	U	
		VMP-9-11.5-110411	11/4/2011	<0.0048	U		<0.0047	U		<0.0049	U		0.0018	J		<0.0043	J	U	0.031			<0.0022	U		<0.0038	J	U	<0.0038	U	
		VMP-9-11.5-012612	1/26/2012	<0.0042	U		0.0071			<0.0044	U		<0.0038	U		<0.0038	U		0.11			<0.002	U		0.0018	J		0.00068	J	
		VMP-9-11.5-041112	4/11/2012	<0.005	U		0.0016	J		0.0017	J		<0.0045	U		<0.0045	U		0.075			<0.0023	U		0.0014	J		0.00055	J	
		VMP-9-11.5-071312	7/13/2012	<0.0056	U		<0.0055	U		0.0012	J		0.0033	J		<0.0051	J	U	<0.0048	U		<0.0026	U		0.011			0.0037	J	
		VMP-9-11.5-101012	10/10/2012	<0.0075	U		<0.0074	U		0.0016	J		<0.0068	U		<0.0068	U		0.034			<0.0035	U		0.0016	J		<0.006	U	
	25.5 ft	VMP-9-25.5-082610	8/26/2010	<1.1	U		<1.1	U		<1.1	U		0.19	J		<0.99	U		650			<0.52	U		<0.87	U		<0.87	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<1.2	U		<1.2	U		<1.2	U		0.17	J		<1.1	U		660			<0.55	U		<0.94	U		<0.94	U	
		VMP-9-25.5-111910	11/19/2010	<1.2	U		<1.2	U		<1.3	U		<1.1	U		<1.1	U		550			<0.59	U		<1	U		<1	U	
		VMP-9-25.5-020911	2/9/2011	<0.69	U		<0.68	U		<0.71	U		0.12	J		<0.62	U		190			<0.32	U		<0.55	U		<0.55	U	
		VMP-9-25.5-040811	4/8/2011	<0.35	U		<0.34	U		<0.36	U		0.056	J		<0.31	U		98			<0.16	U		0.075	J		<0.28	U	
		VMP-9-25.5-080211	8/2/2011	<0.77	U		<0.76	U		<0.79	U		<0.69	U		<0.69	U		440		J	<0.36	U		<0.61	U		<0.61	U	
		VMP-9-25.5-110711	11/7/2011	<0.68	U		0.32	J		<0.7	U		<0.61	U		<0.61	U		120			<0.32	U		<0.54	U		<0.54	U	
		VMP-9-25.5-110711-DUP	11/7/2011	<0.59	U		0.33	J		0.12	J		<0.53	U		<0.53	U		120			<0.27	U		<0.47	U		<0.47	U	
		VMP-9-25.5-012612	1/26/2012	<0.18	U		<0.17	U		<0.18	U		<0.63	U		<0.16	U		76		J	<0.082	U		<0.14	U		<0.14	U	
		VMP-9-25.5-041112	4/11/2012	<0.005	U		<0.0049	U		<0.0051	U		0.0013	J		0.0006	J		0.046			<0.0023	U		0.0035	J		0.0006	J	
		VMP-9-25.5-071312	7/13/2012	<0.0054	U		<0.0053	U		0.0015	J		<0.0048	J	U	<0.0048	J	U	<0.0046	J	U	<0.0025	U		0.018			0.0064		
		VMP-9-25.5-071312-Dup	7/13/2012	<0.0052	U		<0.0051	U		0.0016	J		<0.0047	J	U	<0.0047	J	U	<0.0045	J	U	<0.0024	U		0.017			0.006		
		VMP-9-25.5-101012	10/10/2012	<0.0072	U		<0.0071	U		0.0015	J		<0.0065	U		<0.0065	U		0.0081			<0.0034	U		<0.0057	U		<0.0057	U	
	38.5 ft	VMP-9-38.5-020911	2/9/2011	<1.1	U		<1.1	U		<1.2	U		<1	U		<1	U		380			<0.53	U		<0.91	U		<0.91	U	
		VMP-9-38.5-040811	4/8/2011	<1.5	U		<1.5	U		<1.6	U		<1.4	U		<1.4	U		250			<0.71	U		<1.2	U		<1.2	U	
		VMP-9-38.5-012612	1/26/2012	<0.23	U		<0.22	U		<0.24	U		<0.82	U		<0.21	U		120		J	<0.11	U		0.019	J	J	<0.18	U	
		VMP-9-38.5-041112	4/11/2012	<0.0044	U		0.0017	J		<0.0045	U		<0.004	U		<0.004	U		0.1			<0.002	U		0.0017	J		0.00046	J	
		VMP-9-38.5-071312	7/13/2012	<0.0058	U		<0.0057	J	U	0.0014	J		0.0035	J		<0.0052	J	U	<0.005	J	U	<0.0027	U		0.014			0.005		
		VMP-9-38.5-101012	10/10/2012	<0.021	U		<0.021	U		<0.022	U		<0.019	U		<0.019	U		4.8			<0.01	U		<0.017	U		<0.017	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.007	U		<0.007	U		0.0012	J		<0.007	U		<0.007	U		0.0084			<0.003	U		0.0013	J		<0.006	U	
		VMP-18-8.5-090710	9/7/2010	<0.007	U		<0.0069	J	U	0.0024	J		<0.0063	J	U	<0.0063	U		0.06			<0.0033	U		0.00095	J		<0.0056	U	
		VMP-18-8.5-111910	11/19/2010	<0.0059	U		0.0022	J		<0.0061	U		<0.0053	U		<0.0053	U		0.093			<0.0028	U		<0.0047	U		<0.0047	U	
		VMP-18-8.5-020711	2/7/2011	<0.0065	U		0.0026	J		0.0011	J		0.0042	J		0.0019	J		0.1		J	<0.003	U		0.023		J	0.0083		
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0062	U		0.0019	J		0.0011	J		0.0023	J		<0.0056	U		0.032		J	<0.0029	U		0.0053		J	0.0023	J	
		VMP-18-8.5-040711	4/7/2011	<0.007	U		0.0032	J		0.001	J		<0.0063	J	U	<0.0063	U		0.022			<0.0033	U		<0.0056	J	U	<0.0056	U	
		VMP-18-8.5-072811	7/28/2011	<0.0075	U		<0.0074	U		<0.0078	U		0.0063	J		<0.0068	J	U	0.0051	J		<0.0035	U		0.007			0.0022	J	
		VMP-18-8.5-110711	11/7/2011	<0.0049	U		<0.0048	U		0.00097	J		<0.0044	J	U	<0.0044	U		<0.0042	U		<0.0023	U		<0.0039	J	U	0.00071	J	
		VMP-18-8.5-012312	1/23/2012	<0.0053	U		<0.0052	U		0.00098	J		<0.0048	U		<0.0048	U		0.0016	J		<0.0025	U		0.0014	J		<0.0042	U	
		VMP-18-8.5-041012	4/10/2012	<0.0055	U		0.0012	J		<0.0056	U		0.0036	J		<0.0049	J	U	0.061			<0.0026	U		0.019			0.0053		
		VMP-18-8.5-071212	7/12/2012	<0.0053	U		<0.0053	U		0.001	J		0.0041	J		<0.0048	U		0.005			<0.0025	U		0.008			0.0025	J	
		VMP-18-8.5-100912	10/9/2012	<0.0072	U		<0.0071	U		0.0013	J		<0.0065	U		<0.0065	U		0.021			<0.0034	U		<0.0057	J	U	<0.0057	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.007	U		<0.007	U		0.00091	J		<0.006	U		<0.006	U		0.013			<0.003	U		<0.005	U		<0.005	U	
		VMP-19-5-090110	9/1/2010	<0.007	U		<0.0069	U		0.0013	J		<0.0063	J	U	<0.0063	U		0.22	J	J	<0.0033	U		0.014		J	0.0047	J	J
		VMP-19-5-111510	11/15/2010	<0.0075	U		0.0024	J		0.0011	J		<0.0068	U		<0.0068	U		0.0054	J		<0.0035	U		<0.006	J	U	<0.006	U	
		VMP-19-5-020411	2/4/2011	<0.0066	U		0.0032	J		0.001	J		<0.0059	U		<0.0059	U		0.046			<0.0031	U		0.00044	J		<0.0052	U	
		VMP-19-5-040711	4/7/2011	<0.0074	U		0.0034	J		0.00094	J		<0.0066	U		<0.0066	U		0.054			<0.0034	U		0.0015	J		<0.0059	U	
		VMP-19-5-080911	8/9/2011	<0.0081	U		<0.008	J	U	<0.0083	J	U	<0.0073	J	U	<0.0073	J	U	0.1		J	<0.0038	U		0.011			<0.0064	J	U
		VMP-19-5-080911-DUP	8/9/2011	<0.0077	U		<0.0076	U		<0.0079	J	U	<0.0069	J	U	<0.0069	J	U	0.078		J	<0.0036	U		0.011			<0.0061	J	U
		VMP-19-5-110811	11/8/2011	<0.0053	U		<0.0053	U		<0.0055	U		<0.0048	J	U	<0.0048	U		0.0038	J		<0.0025	U		<0.0042	J	U	<0.0042	U	
		VMP-19-5-012612	1/26/2012	<0.0047	U		<0.0046	U		<0.0048	U		<0.0042	U		<0.0042	U		0.00079	J		<0.0022	U		0.0079			0.0017	J	
		VMP-19-5-041012	4/10/2012	<0.0053	U		0.0018	J		<0.0055	U		<0.0048	J	U	<0.0048	J	U	0.026			0.00042	J		0.0097			0.0025	J	
		VMP-19-5-071112	7/11/2012	<0.0061	U		<0.006	U		0.0011	J		0.0055			<0.0055	J	U	<0.0052	U		<0.0028	U		0.0096			0.003	J	
		VMP-19-5-100912	10/9/2012	<0.0081	U		<0.008	U		<0.0083	U		<0.0073	U		<0.0073	U		0.016			<0.0038	U		<0.0064	U		<0.0064	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0066	U		<0.0065	U		0.0015	J		0.0039	J		0.001	J		1.4			<0.0031	U		0.023			0.0066		
		VMP-20-5-041511	4/15/2011	<0.072	U		<0.071	U		<0.075	U		<0.065	U		<0.065	U		4			<0.034	U		<0.058	U		<0.058	U	
		VMP-20-5-072511	7/25/2011	<0.0077	U		<0.0076	U		0.0017	J		<0.0069	J	U	<0.0069	U		0.0043	J		<0.0036	U		<0.0061	J	U	<0.0061	U	
		VMP-20-5-110111	11/1/2011	<0.0044	U		<0.0043	U		0.0031	J		<0.004	J	U	<0.004	U		0.0017	J		<0.002	U		0.0078			0.0016	J	
		VMP-20-5-012312	1/23/2012	<0.021	U		<0.021	U		0.017	J		<0.019	U		<0.019	U		2.2			<0.0099	U		0.0084	J		<0.017	U	
		VMP-20-5-041012	4/10/2012	<0.0048	U		<0.0047	U		0.0029	J		<0.0043	U		<0.0043	U		0.051			<0.0022	U		0.003	J		0.00064	J	
		VMP-20-5-071112	7/11/2012	<0.0064	U		<0.0063	U		0.004	J		<0.0057	J	U	<0.0057	U		<0.0054	U		<0.003	U		<0.005	U		<0.005	U	
		VMP-20-5-073112	7/31/2012	<0.0053	U		<0.0053	U		0.017			0.0021	J		<0.0048	U		0.0096			<0.0025	U		0.0077			0.0022	J	
		VMP-20-5-100412	10/4/2012	<0.0079	U		<0.0078	U		0.0021	J		<0.0071	U		<0.0071	U		0.0031	J		<0.0037	U		<0.0063	U		<0.0063	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0066	U		<0.0065	U		0.0011	J		0.0046	J		0.0024	J		0.23			<0.0031	U		0.016			0.006		
		VMP-20-10-041511	4/15/2011	<0.066	U		<0.065	U		<0.068	U		<0.059	U		<0.059	U		1.1			<0.031	U		<0.052	U		<0.052	U	
		VMP-20-10-072511	7/25/2011	<0.007	U		<0.0069	U		<0.0072	U		0.0025	J		<0.0063	U		<0.006	U		<0.0033	U		0.0038	J		<0.0056	U	
		VMP-20-10-110111	11/1/2011	<0.0047	U		<0.0046	U		0.0069			<0.0042	U		<0.0042	U		<0.004	U		<0.0022	U		<0.0037	J	U	<0.0037	U	
		VMP-20-10-012312	1/23/2012	<0.0049	U		<0.0048	U		0.032			<0.0044	U		<0.0044	U		0.02			<0.0023	U		0.0032	J		0.00075	J	
		VMP-20-10-041012	4/10/2012	<0.0047	U		<0.0046	U		0.025			0.0011	J		<0.0042	U		0.094			<0.0022	U		0.004			0.0012	J	
		VMP-20-10-071112	7/11/2012	<0.0053	U		<0.0053	U		0.018			<0.0048	U		<0.0048	U		<0.0046	U		<0.0025	U		<0.0042	J	U	<0.0042	U	
		VMP-20-10-100412	10/4/2012	<0.0073	U		<0.0072	U		0.0048	J		<0.0066	U		<0.0066	U		<0.0063	J	U	<0.0034	U		<0.0058	U		<0.0058	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0065	U		<0.0064	U		<0.0067	U		<0.0059	U		<0.0059	U		0.16			<0.003	U		0.0011	J		0.00095	J	
		VMP-20-25-041511	4/15/2011	<0.075	U		<0.074	U		<0.078	U		<0.068	U		<0.068	U		1			<0.035	U		<0.06	U		<0.06	U	
		VMP-20-25-072611	7/26/2011	<0.5	U		<0.49	U		<0.52	U		<0.45	U		<0.45	U		340			<0.24	U		<0.4	U		<0.4	U	
		VMP-20-25-110511	11/5/2011	<0.0046	U		<0.0045	U		0.016			0.0013	J		<0.0041	U		0.11			<0.0021	U		0.0023	J		0.00094	J	
		VMP-20-25-012312	1/23/2012	<0.0051	U		<0.005	U		0.074			<0.0046	U		<0.0046	U		0.0029	J		<0.0024	U		0.0014	J		<0.0041	U	
		VMP-20-25-041012	4/10/2012	<0.0048	U		<0.0047	U		0.086			0.00082	J		<0.0043	U		0.011			<0.0022	U		0.0053			0.0015	J	
		VMP-20-25-041012-Dup	4/10/2012	<0.0049	U		<0.0048	U		0.094			0.0012	J		0.00099	J		0.01			<0.0023	U		0.0044			0.0016	J	
		VMP-20-25-071112	7/11/2012	<0.0055	U		<0.0054	U		0.08			<0.0049	J	U	<0.0049	U		<0.0047	U		<0.0026	U		<0.0044	J	U	<0.0044	U	
		VMP-20-25-100412	10/4/2012	<0.0081	U		<0.008	U		0.051			<0.0073	U		<0.0073	U		<0.0069	J	U	<0.0038	U		<0.0064	U		<0.0064	U	
	39.5 ft	VMP-20-39.5-100412	10/4/2012	<2	U		<1.9	U		<2	U		<1.8	U		<1.8	U		410			<0.92	U		0.46	J		<1.6	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.5	U		<2.5	U		<2.6	U		<2.3	U		<3.9	U		830			<1.2	U		<2	U		<2	U	
		VMP-21-5-020911-DUP	2/9/2011	<4.3	U		<4.3	U		<4.5	U		<3.9	U		<3.9	U		660			<2	U		<3.4	U		<3.4	U	
		VMP-21-5-041311	4/13/2011	<0.0072	U		<0.0071	U		0.0012	J		0.0014	J		<0.0065	U		1.6			<0.0034	U		0.0035	J		<0.0057	U	
		VMP-21-5-072511	7/25/2011	<0.0075	U		<0.0074	U		0.0013	J		<0.0068	J	U	<0.0068	U		0.0035	J		<0.0035	U		0.0045	J		0.0014	J	
		VMP-21-5-110111	11/1/2011	<0.0062	U		<0.0061	U		<0.0064	U		0.13			0.033			0.016			<0.0029	U		0.044			0.018		
		VMP-21-5-012312	1/23/2012	<0.0053	U		0.0043	J		0.0011	J		<0.0048	U		<0.0048	U		0.0015	J		<0.0025	U		0.0017	J		0.00063	J	
		VMP-21-5-012312-DUP	1/23/2012	<0.0049	U		0.0022	J		0.0011	J		<0.0044	U		<0.0044	U		0.0018	J		<0.0023	U		0.0019	J		0.0006	J	
		VMP-21-5-042412	4/24/2012	<0.01	U		<0.0098	U		<0.01	U		<0.009	U		<0.009	U		1.3			<0.0047	U		0.0048	J		0.0027	J	
		VMP-21-5-071012	7/10/2012	<0.0058	U		<0.0057	U		0.0016	J		0.048			0.018			<0.005	U		<0.0027	U		0.12			0.022		
		VMP-21-5-100412	10/4/2012	<0.0085	U		<0.0084	U		<0.0087	U		<0.0076	U		<0.0076	U		0.0052	J		<0.004	U		0.0029	J		<0.0068	U	
	10 ft	VMP-21-10-021011	2/10/2011	<2.3	U		<2.2	U		<2.4	U		<2.1	U		<2.1	U		480			<1.1	U		<1.8	U		<1.8	U	
		VMP-21-10-041311	4/13/2011	<0.29	U		0.17	J		<0.3	U		<0.26	U		<0.26	U		42			<0.14	U		<0.23	U		<0.23	U	
		VMP-21-10-072511	7/25/2011	<0.016	U		<0.016	U		0.0029	J		<0.014	J	U	<0.014	U		<0.014	U		<0.0075	U		0.0033	J		<0.013	U	
		VMP-21-10-110111	11/1/2011	<0.0047	U		<0.0046	U		0.0014	J		<0.0042	U		<0.0042	U		<0.004	U		<0.0022	U		<0.0037	J	U	<0.0037	U	
		VMP-21-10-012312	1/23/2012	<0.0053	U		0.0017	J		0.0014	J		<0.0048	U		<0.0048	U		0.0045			<0.0025	U		0.0014	J		<0.0042	U	
		VMP-21-10-040912	4/9/2012	<0.0048	U		0.0095			<0.0049	U		0.001	J		<0.0043	U		0.79			<0.0022	U		0.007			0.003	J	
		VMP-21-10-071012	7/10/2012	<0.0055	U		<0.0054	U		0.0012	J		<0.0049	J	U	<0.0049	U		<0.0047	U		<0.0026	U		<0.0044	J	U	<0.0044	U	
		VMP-21-10-100412	10/4/2012	<0.0077	U		<0.0076	U		<0.0079	U		<0.0069	J	U	<0.0069	U		0.017			<0.0036	U		0.0056	J		<0.0061	J	U
	25 ft	VMP-21-25-021011	2/10/2011	<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1700			<3	U		<5	U		<5	U	
		VMP-21-25-041411	4/14/2011	<22	U		<22	U		<23	U		<20	U		<20	U		1200			<10	U		<18	U		<18	U	
		VMP-21-25-041411-DUP	4/14/2011	<22	U		<22	U		<23	U		<20	U		<20	U		1200			<10	U		<18	U		<18	U	
		VMP-21-25-072611	7/26/2011	<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		1500			<3.4	U		<5.7	U		<5.7	U	
		VMP-21-25-110511	11/5/2011	<4.6	U		<4.5	U		<4.7	U		<4.1	U		<4.1	U		160			<2.1	U		<3.6	U		<3.6	U	
		VMP-21-25-012412	1/24/2012	<0.063	U		<0.062	U		<0.065	U		<0.23	U		<0.057	U		16			<0.03	U		<0.05	U		<0.05	U	
		VMP-21-25-040912	4/9/2012	<0.005	U		0.0021	J		<0.0051	U		<0.0045	U		<0.0045	U		1.2			<0.0023	U		0.006			0.0024	J	
		VMP-21-25-071112	7/11/2012	<0.005	U		<0.0049	U		0.0011	J		<0.0045	J	U	<0.0045	U		0.015			<0.0023	U		<0.004	J	U	<0.004	U	
		VMP-21-25-100412	10/4/2012	<0.0079	U		<0.0078	U		0.0016	J		<0.0071	U		<0.0071	U		0.073			<0.0037	U		0.0028	J		<0.0063	U	
	33 ft	VMP-21-33-021011	2/10/2011	<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1800			<3	U		<5	U		<5	U	
		VMP-21-33-041411	4/14/2011	<21	U		<21	U		<22	U		<19	U		<19	U		1300			<10	U		6.1	J		<17	U	
		VMP-21-33-110511	11/5/2011	<1	U		<1	U		<1.1	U		<0.94	U		<0.94	U		69			<0.49	U		<0.83	U		<0.83	U	
		VMP-21-33-012412	1/24/2012	<0.15	U		<0.15	U		<0.15	U		<0.54	U		<0.13	U		54		J	<0.07	U		<0.12	U		<0.12	U	
		VMP-21-33-042412	4/24/2012	<0.0051	U		<0.005	J	U	<0.0052	U		<0.0046	J	U	<0.0046	U		0.58			<0.0024	U		0.0039	J		0.0016	J	
		VMP-21-33-071112	7/11/2012	<0.0053	U		<0.0053	U		<0.0055	U		<0.0048	J	U	<0.0048	U		<0.0046	U		<0.0025	U		<0.0042	J	U	<0.0042	U	
		VMP-21-33-100412	10/4/2012	<0.0077	U		<0.0076	U		<0.0079	U		<0.0069	J	U	<0.0069	U		0.038			<0.0036	U		0.0052	J		<0.0061	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.14	U		<0.14	U		<0.14	U		<0.13	U		<0.13	U		81			<0.066	U		<0.11	U		<0.11	U	
		VMP-22-5-041811	4/18/2011	<0.069	U		<0.068	U		<0.071	U		<0.062	U		<0.062	U		0.22			<0.032	U		<0.055	U		<0.055	U	
		VMP-22-5-072611	7/26/2011	<0.0081	U		<0.008	U		<0.0083	U		<0.0073	J	U	<0.0073	J	U	0.13			<0.0038	U		0.0056	J		0.002	J	
		VMP-22-5-110111	11/1/2011	<0.0048	U		<0.0048	U		<0.0047	U		<0.0041	U		<0.0041	U		0.00041	J		<0.0023	U		<0.0036	J	U	<0.0036	U	
		VMP-22-5-012412	1/24/2012	<0.0048	U		<0.0048	U		0.0013	J	J	<0.0044	U		<0.0044	U		1.4		J	<0.0023	U		0.0067		J	0.0012	J	J
		VMP-22-5-040912	4/9/2012	<0.0053	U		<0.0053	U		<0.0055	U		<0.0048	U		<0.0048	U		0.17			<0.0025	U		0.0016	J		<0.0042	U	
		VMP-22-5-070912	7/9/2012	<0.0059	U		<0.0058	U		0.0013	J		<0.0053	J	U	<0.0053	U		0.0024	J		<0.0028	U		0.0099			0.0028	J	
		VMP-22-5-100312	10/3/2012	<0.0069	U		<0.0068	U		<0.0071	U		<0.0062	J	U	<0.0062	U		<0.0059	J	U	<0.0032	U		<0.0055	J	U	<0.0055	U	
		VMP-22-5-100312-Dup	10/3/2012	<0.0062	U		<0.0062	U		0.0012	J		<0.0056	U		<0.0056	U		0.0064			<0.0029	U		<0.005	J	U	<0.005	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.066	U		<0.066	U		<0.068	U		<0.06	U		<0.06	U		25			<0.031	U		<0.053	U		<0.053	U	
		VMP-22-10-041811	4/18/2011	<0.071	U		<0.07	U		<0.073	U		<0.064	U		<0.064	U		0.016	J		<0.033	U		<0.057	U		<0.057	U	
		VMP-22-10-072611	7/26/2011	<0.0083	U		<0.0081	U		<0.0085	U		<0.0074	J	U	<0.0074	J	U	0.022		J	<0.0039	U		0.0039	J		<0.0066	U	
		VMP-22-10-072611-DUP	7/26/2011	<0.0097	U		<0.0096	U		<0.01	U		<0.0088	J	U	<0.0088	U		0.051		J	<0.0046	U		0.0034	J		<0.0077	U	
		VMP-22-10-110211	11/2/2011	<0.0047	U		<0.0046	U		<0.0048	U		<0.0042	U		<0.0042	U		<0.004	U		<0.0022	U		<0.0037	J	U	<0.0037	U	
		VMP-22-10-012412	1/24/2012	<0.0053	U		0.0015	J		0.001	J		<0.0048	U		<0.0048	U		0.0063			<0.0025	U		0.0018	J		0.00084	J	
		VMP-22-10-040912	4/9/2012	<0.0053	U		<0.0052	U		0.0018	J		<0.0047	U		<0.0047	U		0.13			<0.0025	U		0.0023	J		<0.0042	U	
		VMP-22-10-070912	7/9/2012	<0.0059	U		<0.0058	U		0.0014	J		<0.0053	U		<0.0053	U		<0.0051	U		<0.0028	U		<0.0047	U		<0.0047	U	
		VMP-22-10-070912-Dup	7/9/2012	<0.0058	U		<0.0057	U		<0.006	U		<0.0052	U		<0.0052	U		<0.005	U		<0.0027	U		<0.0046	J	U	<0.0046	U	
		VMP-22-10-100312	10/3/2012	<0.0066	U		<0.0065	U		0.0014	J		<0.0059	U		<0.0059	U		0.085			<0.0031	U		<0.0052	J	U	<0.0052	U	
	18 ft	VMP-22-18-021111	2/11/2011	<1.2	U		<1.1	U		<1.2	U		<1	U		<1	U		480			<0.54	U		<0.92	U		<0.92	U	
		VMP-22-18-041811	4/18/2011	<4.9	U		<4.8	U		<5	U		<4.4	U		<4.4	U		390			<2.3	U		<3.9	U		<3.9	U	
		VMP-22-18-072611	7/26/2011	<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		340			<1.2	U		<2	U		<2	U	
		VMP-22-18-110511	11/5/2011	<0.005	U		<0.0049	J	U	<0.0051	U		<0.0045	U		<0.0045	U		0.028			<0.0023	U		0.0017	J		<0.004	U	
		VMP-22-18-012412	1/24/2012	<0.046	U		<0.045	U		<0.047	U		<0.16	U		<0.041	U		17		J	<0.021	U		<0.036	U		<0.036	U	
		VMP-22-18-040912	4/9/2012	<0.0055	U		<0.0054	U		<0.0056	U		<0.0049	U		<0.0049	U		0.081			<0.0026	U		0.0015	J		<0.0044	U	
		VMP-22-18-070912	7/9/2012	<0.0058	U		<0.0057	U		<0.006	U		<0.0052	U		<0.0052	U		0.0014	J		<0.0027	U		<0.0046	J	U	<0.0046	U	
		VMP-22-18-100412	10/4/2012	<0.0079	U		<0.0078	U		0.0013	J		<0.0071	U		<0.0071	U		0.017			<0.0037	U		<0.0063	U		<0.0063	U	
	38 ft	VMP-22-38-041811	4/18/2011	<15	U		<15	U		<16	U		<14	U		<14	U		710			<7	U		<12	U		<12	U	
		VMP-22-38-012512	1/25/2012	<0.046	U		<0.045	U		<0.047	U		<0.041	U		<0.041	U		14			<0.021	U		0.0087	J		<0.036	U	
		VMP-22-38-040912	4/9/2012	<0.0053	U		0.002	J		<0.0055	U		<0.0048	U		<0.0048	U		0.14			<0.0025	U		0.0027	J		<0.0042	U	
		VMP-22-38-070912	7/9/2012	<0.0056	U		<0.0055	U		<0.0058	U		<0.0051	U		<0.0051	U		0.0035	J		<0.0026	U		<0.0045	J	U	<0.0045	U	
		VMP-22-38-100412	10/4/2012	<0.0083	U		<0.0081	U		<0.0085	U		<0.0074	U		<0.0074	U		0.056			<0.0039	U		<0.0066	J	U	<0.0066	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0072	U		0.002	J		0.0011	J		<0.0065	U		<0.0065	U		0.0085			<0.0034	U		0.0046	J		0.0013	J	
		VMP-23-5-042111	4/21/2011	<0.062	U		<0.062	U		<0.064	U		<0.056	U		<0.056	U		0.016	J		<0.029	U		0.022	J		<0.05	U	
		VMP-23-5-072711	7/27/2011	<0.0072	U		<0.0071	U		0.0017	J		0.003	J		0.00078	J		0.047			<0.0034	U		0.0064			0.0014	J	
		VMP-23-5-110211	11/2/2011	<0.0051	U		<0.005	U		<0.0052	U		<0.0046	U		<0.0046	U		0.00055	J		<0.0024	U		<0.0041	J	U	<0.0041	U	
		VMP-23-5-012512	1/25/2012	<0.0043	U		0.0014	J		<0.0044	U		0.0012	J		0.00097	J		0.044			<0.002	U		0.0016	J		0.00044	J	
		VMP-23-5-040912	4/9/2012	<0.0052	U		<0.0051	U		<0.0054	U		<0.0047	U		<0.0047	U		0.022			<0.0024	U		0.015			0.0035	J	
		VMP-23-5-070912	7/9/2012	<0.0047	U		<0.0046	U		0.0012	J		0.003	J		0.00091	J		0.0028	J		<0.0022	U		<0.0037	J	U	0.00085	J	
		VMP-23-5-100312	10/3/2012	<0.0079	U		<0.0078	U		<0.0081	U		<0.0071	U		<0.0071	U		0.0049	J		<0.0037	U		<0.0063	U		<0.0063	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0074	U		<0.0073	J	U	0.0015	J		<0.0067	J	U	<0.0067	U		0.024			<0.0035	U		0.0086			0.0037	J	
		VMP-23-10-042111	4/21/2011	<0.075	U		<0.074	U		<0.078	U		<0.068	U		<0.068	U		1.4			<0.035	U		0.26			0.059		
		VMP-23-10-072711	7/27/2011	<0.0069	U		<0.0068	U		<0.0071	U		<0.0062	U		<0.0062	U		<0.0059	U		<0.0032	U		<0.0055	U		<0.0055	U	
		VMP-23-10-110211	11/2/2011	<0.005	U		<0.0049	U		<0.0051	U		<0.0045	J	U	<0.0045	J	U	0.00047	J		<0.0023	U		0.0042			0.0014	J	
		VMP-23-10-012512	1/25/2012	<0.0042	U		<0.0042	U		0.0014	J		0.0007	J		<0.0038	U		0.88			<0.002	U		0.0045			0.0008	J	
		VMP-23-10-040912	4/9/2012	<0.0053	U		<0.0052	U		0.0019	J		0.002	J		<0.0048	U		<0.0046	U		<0.0025	U		0.0057			0.002	J	
		VMP-23-10-040912-Dup	4/9/2012	<0.0053	U		0.0062			0.0032	J		<0.0048	U		<0.0048	U		0.0059			<0.0025	U		0.0049			0.0016	J	
		VMP-23-10-070912	7/9/2012	<0.0042	U		<0.0042	U		0.0013	J		0.0019	J		0.00078	J		<0.0036	U		<0.002	U		<0.0034	J	U	0.00074	J	
		VMP-23-10-100312	10/3/2012	<0.0085	U		<0.0084	U		<0.0087	U		<0.0076	U		<0.0076	U		0.011			<0.004	U		<0.0068	U		<0.0068	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0069	U		0.0024	J		<0.0071	U		<0.0062	U		<0.0062	U		1.3			<0.0032	U		0.00067	J		<0.0055	U	
		VMP-23-25-042111	4/21/2011	<0.07	U		<0.069	U		<0.072	U		<0.063	U		<0.063	U		2.9			<0.033	U		<0.056	U		<0.056	U	
		VMP-23-25-072711	7/27/2011	<0.0079	U		<0.0078	U		<0.0081	U		0.004	J		0.0024	J		0.046			<0.0037	U		0.0065			0.002	J	
		VMP-23-25-110511	11/5/2011	<0.005	U		<0.0049	J	U	0.001	J		<0.0045	U		<0.0045	U		0.0022	J		<0.0023	U		0.0018	J		0.00062	J	
		VMP-23-25-012512	1/25/2012	<0.0045	U		<0.0044	U		0.0022	J		<0.004	U		<0.004	U		0.66			<0.0021	U		0.0032	J		<0.0036	U	
		VMP-23-25-040912	4/9/2012	<0.0052	U		0.0061			0.0024	J		0.0023	J		<0.0047	U		0.0031	J		<0.0024	U		0.013			0.0042		
		VMP-23-25-071012	7/10/2012	<0.0066	U		<0.0066	U		0.0022	J		<0.006	U		<0.006	U		0.002	J		<0.0031	U		<0.0053	J	U	0.0014	J	
		VMP-23-25-100312	10/3/2012	<0.0083	U		<0.0081	U		0.002	J		<0.0074	U		<0.0074	U		0.016			<0.0039	U		<0.0066	U		<0.0066	U	
	40 ft	VMP-23-40-071012	7/10/2012	<0.0056	U		<0.0055	U		<0.0058	U		0.0021	J		<0.0051	U		<0.0048	U		<0.0026	U		<0.0045	J	U	0.00092	J	
		VMP-23-40-100312	10/3/2012	<0.0077	U		<0.0076	U		0.003	J		<0.0069	U		<0.0069	U		0.027			<0.0036	U		<0.0061	J	U	<0.0061	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0077	U		<0.0076	U		<0.0079	U		<0.0069	J	U	<0.0069	J	U	0.011			<0.0036	U		<0.0061	J	U	<0.0061	J	U
		VMP-24-5-040811	4/8/2011	<0.082	U		<0.081	U		<0.084	U		<0.074	U		<0.074	U		0.48			<0.038	U		<0.065	U		<0.065	U	
		VMP-24-5-072811	7/28/2011	<0.0077	U		<0.0076	U		0.0016	J		0.0052	J		0.0019	J		0.012			<0.0036	U		0.0099			0.004	J	
		VMP-24-5-110211	11/2/2011	<0.0051	U		<0.005	U		0.0016	J		<0.0046	J	U	<0.0046	J	U	0.0017	J		<0.0024	U		0.0031	J		<0.0041	U	
		VMP-24-5-110211-DUP	11/2/2011	<0.0071	U		<0.007	U		<0.0073	U		0.0073			<0.0064	J	U	0.0083			<0.0033	U		0.0046	J		0.0026	J	
		VMP-24-5-012512	1/25/2012	<0.0044	U		0.00084	J		0.0014	J		<0.004	U		<0.004	U		<0.0038	U		<0.002	U		0.0062			0.001	J	
		VMP-24-5-040912	4/9/2012	<0.0052	U		0.0027	J		0.0018	J		0.017			0.0048			0.013			<0.0024	U		0.023			0.0096		
		VMP-24-5-071212	7/12/2012	<0.005	U		<0.0049	U		0.0013	J		0.0087			0.0022	J		0.012			<0.0023	U		0.0078			0.0029	J	
		VMP-24-5-101912	10/19/2012	<0.0077	U		<0.0076	U		<0.008	U		<0.007	U		<0.007	U		0.0096			<0.0036	U		<0.0061	J	U	<0.0061	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0019	J		<0.0066	J	U	<0.0066	U		1.2			<0.0034	U		<0.0058	J	U	<0.0058	U	
		VMP-24-10-041111	4/11/2011	<0.014	U		0.0037	J		<0.014	U		<0.012	U		<0.012	U		0.12			<0.0064	U		<0.011	J	U	<0.011	U	
		VMP-24-10-072811	7/28/2011	<0.0075	U		<0.0074	U		0.0027	J		0.0033	J		0.0014	J		0.002	J		<0.0035	U		0.0062			0.0015	J	
		VMP-24-10-110211	11/2/2011	<0.0045	U		<0.0044	U		0.0017	J		<0.004	J	U	<0.004	U		0.00052	J		<0.0021	U		<0.0036	J	U	<0.0036	U	
		VMP-24-10-012512	1/25/2012	<0.0042	U		0.00087	J		0.0016	J		<0.0038	U		<0.0038	U		0.0015	J		<0.002	U		0.0078			0.0021	J	
		VMP-24-10-041012	4/10/2012	<0.005	U		<0.0049	U		0.0019	J		<0.0045	U		<0.0045	U		0.076			<0.0023	U		0.0026	J		<0.004	U	
		VMP-24-10-071212	7/12/2012	<0.0058	U		<0.0057	U		0.0014	J		0.0027	J		<0.0052	U		<0.005	U		<0.0027	U		0.0073			0.0021	J	
		VMP-24-10-100912	10/9/2012	<0.0072	U		<0.0071	U		0.0014	J		<0.0065	U		<0.0065	U		0.0021	J		<0.0034	U		<0.0057	J	U	<0.0057	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0018	J		<0.0066	J	U	<0.0066	U		0.54			<0.0034	U		0.0084			0.003	J	
		VMP-24-22-041111	4/11/2011	<0.0069	U		<0.0068	J	U	0.0022	J		<0.0062	U		<0.0062	U		0.00094	J		<0.0032	U		<0.0055	U		<0.0055	U	
		VMP-24-22-072811	7/28/2011	<0.0069	U		<0.0068	U		0.0019	J		0.0026	J		0.0011	J		0.00081	J		<0.0032	U		0.0041	J		0.0014	J	
		VMP-24-22-072811-Dup	7/28/2011	<0.0079	U		<0.0078	U		0.002	J		0.0027	J		0.00076	J		0.0014	J		<0.0037	U		0.0039	J		0.0012	J	
		VMP-24-22-110611	11/6/2011	<0.0048	U		<0.0047	J	U	0.0015	J		<0.0043	U		<0.0043	U		0.01			<0.0022	U		0.0022	J		0.00069	J	
		VMP-24-22-012512	1/25/2012	<0.0045	U		<0.0044	U		0.0022	J		<0.004	U		<0.004	U		<0.0038	U		<0.0021	U		0.0011	J		<0.0036	U	
		VMP-24-22-041012	4/10/2012	<0.0049	U		<0.0048	U		0.002	J		0.0021	J		<0.0044	U		0.051			<0.0023	U		0.0031	J		<0.0039	U	
		VMP-24-22-071212	7/12/2012	<0.0059	U		<0.0058	U		<0.0061	U		0.0036	J		<0.0053	U		<0.0051	U		<0.0028	U		0.0054			0.0017	J	
		VMP-24-22-100912	10/9/2012	<0.0073	U		<0.0072	U		0.0015	J		<0.0066	U		<0.0066	U		0.0034	J		<0.0034	U		<0.0058	U		<0.0058	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0022	J		<0.0066	U		<0.0066	U		0.024			<0.0034	U		<0.0058	U		<0.0058	U	
		VMP-24-34-041111	4/11/2011	<0.0066	U		0.003	J		0.0021	J		<0.0059	U		<0.0059	U		0.0012	J		<0.0031	U		<0.0052	U		<0.0052	U	
		VMP-24-34-072811	7/28/2011	<0.0058	U		<0.0057	U		0.0016	J		0.0025	J		0.0008	J		0.0035	J		<0.0027	U		0.004	J		0.0016	J	
		VMP-24-34-110611	11/6/2011	<0.0037	U		<0.0036	J	U	0.0016	J		<0.0033	U		0.00036	J		0.0088			<0.0017	U		0.0028	J		0.0012	J	
		VMP-24-34-012512	1/25/2012	<0.0046	U		0.0014	J		0.0027	J		<0.0041	U		<0.0041	U		<0.0039	U		<0.0021	U		0.0013	J		0.00053	J	
		VMP-24-34-041012	4/10/2012	<0.0051	U		0.0076			<0.0052	U		<0.0046	U		<0.0046	U		0.053			<0.0024	U		0.0053			0.0018	J	
		VMP-24-34-071212	7/12/2012	<0.0049	U		<0.0048	U		0.0014	J		0.0053			0.00088	J		<0.0042	U		<0.0023	U		0.0067			0.0021	J	
		VMP-24-34-100912	10/9/2012	<0.0075	U		<0.0074	U		0.0017	J		<0.0068	U		<0.0068	U		0.042			<0.0035	U		<0.006	U		<0.006	U	
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	<0.0052	U		<0.0051	U		0.0014	J		<0.0047	J	U	<0.0047	J	U	0.00098	J		<0.0024	U		0.011			0.0035	J	
		VMP-31-5-072012	7/20/2012	<0.0052	U		<0.0051	U		0.0011	J		0.00088	J		<0.0047	U		<0.0045	U		<0.0024	U		0.0017	J		<0.0041	U	
		VMP-31-5-102612	10/26/2012	<0.0075	U		<0.0074	U		<0.0078	U		0.002	J		<0.0068	U		0.093			<0.0035	U		0.003	J		<0.006	U	
	10 ft	VMP-31-10-042512	4/25/2012	<0.007	U		<0.0068	U		0.0012	J		<0.0063	J	U	<0.0063	J	U	0.029			<0.0032	U		0.007			0.0031	J	
		VMP-31-10-072612	7/26/2012	<0.0053	U		<0.0052	U		0.0012	J		0.0028	J		0.0012	J		<0.0046	U		<0.0025	U		0.011			0.0033	J	
		VMP-31-10-102612	10/26/2012	<0.0081	U		<0.008	U		<0.0083	U		0.0021	J		<0.0073	U		0.095			<0.0038	U		0.0026	J		<0.0064	U	
	20 ft	VMP-31-20-101912	10/19/2012	<7.5	U		<7.4	U		<7.8	U		<6.8	U		<6.8	U		960			<3.5	U		0.69	J		<6	U	
	30 ft	VMP-31-30-042512	4/25/2012	<2.7	U		<2.6	U		<2.8	U		0.42	J		<2.4	U		220			<1.2	U		2.6			<2.1	U	
		VMP-31-30-042512-Dup	4/25/2012	<2.7	U		<2.6	U		<2.8	U		0.44	J		<2.4	U		240			<1.2	U		2.8			<2.1	U	
		VMP-31-30-072012	7/20/2012	<0.52	U		<0.51	U		<0.54	U		<0.47	U		<0.47	U		17			<0.24	U		<0.41	U		<0.41	U	
		VMP-31-30-101912	10/19/2012	<0.47	U		<0.46	U		<0.48	U		<0.42	U		<0.42	U		17			<0.22	U		0.087	J		<0.37	U	
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	<0.0051	U		<0.005	U		0.0012	J		<0.0046	J	U	<0.0046	J	U	0.0036	J		<0.0024	U		0.0069			0.0031	J	
		VMP-32-5-072012	7/20/2012	<0.0046	U		<0.0045	U		0.0011	J		0.0022	J		0.00095	J		0.023			<0.0021	U		0.0035	J		0.0016	J	
		VMP-32-5-101812	10/18/2012	<0.0087	U		<0.0086	U		<0.009	U		0.0013	J	J	<0.0078	U		0.22			<0.0041	U		0.0027	J		<0.0069	U	
	10 ft	VMP-32-10-041612	4/16/2012	<0.0047	U		<0.0046	U		0.0015	J		<0.0042	U		<0.0042	U		0.0082			<0.0022	U		0.0042			<0.0037	U	
		VMP-32-10-072012	7/20/2012	<0.0053	U		<0.0053	U		0.0015	J		0.0015	J		<0.0048	U		0.016			<0.0025	U		0.0024	J		0.0011	J	
		VMP-32-10-101812	10/18/2012	<0.0081	U		<0.008	U		<0.0083	U		<0.0073	U	UJ	<0.0073	U		0.093			<0.0038	U		0.0018	J		<0.0064	U	
	20 ft	VMP-32-20-041612	4/16/2012	<0.11	U		<0.1	U		<0.11	U		<0.096	U		<0.096	U		24			<0.05	U		0.046	J		<0.085	U	
		VMP-32-20-072012	7/20/2012	<0.0052	U		<0.0051	U		0.0012	J		0.0011	J		<0.0047	U		0.0026	J		<0.0024	U		0.0014	J		<0.0041	U	
		VMP-32-20-101812	10/18/2012	<0.0075	U		<0.0074	U		0.0015	J		<0.0068	U	UJ	<0.0068	U		0.14			<0.0035	U		0.0016	J		<0.006	U	
	30 ft	VMP-32-30-041612	4/16/2012	<2.6	U		<2.5	U		<2.6	U		0.45	J		<2.3	U		710			<1.2	U		18			3.7		
		VMP-32-30-072012	7/20/2012	<5.3	U		<5.2	U		<5.4	U		<4.7	U		<4.7	U		470			<2.5	U		<4.2	U		<4.2	U	
		VMP-32-30-101812	10/18/2012	<0.3	U		<0.3	U		<0.31	U		<0.27	U		<0.27	U		27			<0.14	U		<0.24	U		<0.24	U	
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	<0.0047	U		0.0019	J		0.0014	J		<0.0042	U		<0.0042	U		0.3			<0.0022	U		0.0098			0.0026	J	
		VMP-42-10-041812-Dup	4/18/2012	<0.0048	U		<0.0047	U		<0.0049	U		<0.0043	U		<0.0043	U		0.26			<0.0022	U		0.0089			0.0026	J	
		VMP-42-10-071912	7/19/2012	<0.0052	U		<0.0051	U		0.0018	J	J	0.0024	J		<0.0047	J	U	0.0082			<0.0024	U		0.014			0.0045		
		VMP-42-10-101212	10/12/2012	<0.0084	U		<0.0083	U		<0.0087	U		<0.0076	U		<0.0076	U		0.008			<0.0039	U		<0.0067	U		<0.0067	U	
	20 ft	VMP-42-20-041812	4/18/2012	<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		66			<1.1	U		0.93	J		<1.9	U	
		VMP-42-20-071912	7/19/2012	<0.0051	U		<0.005	U		0.0057	J	J	0.0037	J		<0.0046	J	U	0.043			<0.0024	U		0.019			0.0062		
		VMP-42-20-101212	10/12/2012	<0.0074	U		<0.0073	U		0.0015	J		<0.0067	U		<0.0067	U		0.011			<0.0035	U		<0.0059	U		<0.0059	U	
		VMP-42-20-101212-Dup	10/12/2012	<0.0075	U		<0.0074	U		0.0018	J		<0.0068	U		<0.0068	U		0.0039	J		<0.0035	U		<0.006	J	U	<0.006	U	
	30 ft	VMP-42-30-041912	4/19/2012	<5.1	U		<5	U		<5.2	U		<4.6	U		<4.6	U		390			<2.4	U		<4.1	U		<4.1	U	
		VMP-42-30-071912	7/19/2012	<0.0048	U		<0.0047	U		0.01	J	J	0.0051		J	0.0063		J	10	S		<0.0022	U		0.032		J	0.0076		J
		VMP-42-30-101212	10/12/2012	<0.0079	U		<0.0078	U		0.0069	J		<0.0071	U		<0.0071	U		0.49			<0.0037	U		<0.0063	U		<0.0063	U	
		VMP-42-30-101212-Dup	10/12/2012	<0.0079	U		<0.0078	J	U	0.007	J		<0.0071	U		<0.0071	U		0.47			<0.0037	U		<0.0063	U		<0.0063	U	
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	<0.0053	U		<0.0053	U		<0.0055	U		0.0024	J		0.00087	J		0.02			<0.0025	U		0.0086			0.0024	J	
		VMP-43-10-071912	7/19/2012	<0.01	U		<0.01	U		<0.01	U		0.0042	J		0.0015	J		0.03			<0.0048	U		0.027			0.0085		
		VMP-43-10-101612	10/16/2012	<0.0087	U		<0.0086	U		<0.009	U		<0.0078	U	UJ	<0.0078	U		0.0069	J		<0.0041	U		0.0013	J		<0.0069	U	
	20 ft	VMP-43-20-041612	4/16/2012	<0.052	U		<0.051	U		<0.054	U		0.013	J		<0.047	U		45			<0.024	U		0.038	J		0.012	J	
		VMP-43-20-071912	7/19/2012	<0.019	U		<0.018	U		<0.019	U		0.0034	J		<0.017	U		3.3			<0.0088	U		0.019			0.006	J	
		VMP-43-20-101812	10/18/2012	<0.0072	U		<0.0071	U		0.0014	J		<0.0065	U	UJ	<0.0065	U		0.24			<0.0034	U		0.0018	J		<0.0057	U	
	30 ft	VMP-43-30-042312	4/23/2012	<0.048	U		<0.047	U		<0.049	U		<0.043	U		<0.043	U		6.8			<0.022	U		<0.038	U		<0.038	U	
		VMP-43-30-071912	7/19/2012	<0.0052	U		0.0011	J		0.0018	J	J	0.0046	J		0.0014	J		0.18			<0.0024	U		0.019			0.007		
		VMP-43-30-101812	10/18/2012	<0.0075	U		<0.0074	U		<0.0078	U		<0.0068	U	UJ	<0.0068	U		0.015			<0.0035	U		<0.006	U		<0.006	U	
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	<2.5	U		<2.4	U		<2.6	U		<2.2	U		<2.2	U		1200			<1.2	U		0.89	J		<2	U	
		VMP-44-10-072012	7/20/2012	<0.84	U		<0.82	U		<0.86	U		0.29	J	J	0.47	J	J	1200			<0.39	U		1.8		J	0.66	J	J
		VMP-44-10-081012	8/10/2012	<0.5	U		<0.49	U		<0.51	U		0.25	J	J	0.3	J	J	800			<0.23	U		1.3		J	0.41		J
		VMP-44-10-101212	10/12/2012	<1.5	U		0.53	J		<1.6	U		<1.4	U	UJ	<1.4	U		190			<0.72	U		0.2	J		0.17	J	
	20 ft	VMP-44-20-041912	4/19/2012	<0.55	U		<0.54	U		<0.56	U		0.1	J		0.23	J		350			<0.26	U		0.86			0.5		
		VMP-44-20-072512	7/25/2012	<0.94	U		<0.92	U		<0.96	U		<0.84	U		<0.84	U		500		J	<0.44	U		<0.74	U		<0.74	U	
		VMP-44-20-101212	10/12/2012	<3.1	U		0.76	J		<3.2	U		<2.8	U	UJ	<2.8	U		110			<1.4	U		0.3	J		0.25	J	
	30 ft	VMP-44-30-041912	4/19/2012	<0.32	U		<0.31	U		<0.33	U		0.16	J		0.075	J		23			<0.15	U		0.88			0.053	J	
		VMP-44-30-072512	7/25/2012	<0.053	U		<0.053	U		<0.055	U		0.025	J		0.042	J		1.4			<0.025	U		0.34			0.024	J	
		VMP-44-30-072512-Dup	7/25/2012	<0.053	U		<0.053	U		<0.055	U		0.028	J		0.038	J		1.4			<0.025	U		0.35			0.026	J	
		VMP-44-30-101512	10/15/2012	<0.33	U		<0.32	U		<0.34	U		<0.3	U	UJ	<0.3	U		29			<0.15	U		<0.26	U		<0.26	U	
		VMP-44-30-101512-Dup	10/15/2012	<0.31	U		<0.3	U		<0.32	U		<0.28	U	UJ	<0.28	U		28			<0.14	U		<0.24	U		<0.24	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 5
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS: VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			1.5			860												0.29			130			120		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	<0.005	U		<0.0049	U		0.0014	J		<0.0045	U		<0.0045	U		0.043			<0.0023	U		0.0046			<0.004	U	
		VMP-45-10-071912	7/19/2012	<0.0051	U		<0.005	U		0.0017	J	J	0.0017	J		0.00057	J		<0.0044	J	U	<0.0024	U		0.014			0.0035	J	
		VMP-45-10-101512	10/15/2012	<0.0079	U		<0.0078	U		0.0014	J		<0.0072	J	U	<0.0072	U		0.038			<0.0037	U		<0.0063	J	U	<0.0063	U	
	20 ft	VMP-45-20-041912	4/19/2012	<0.31	U		<0.31	U		<0.32	U		0.4			0.19	J		130			<0.14	U		8			2.5		
		VMP-45-20-071912	7/19/2012	<0.097	U		<0.096	U		<0.1	U		<0.088	U		<0.088	U		23			<0.046	U		0.065	J		0.015	J	
		VMP-45-20-101512	10/15/2012	<0.0075	U		<0.0074	U		<0.0078	U		<0.0068	U		<0.0068	U		3.4			<0.0035	U		<0.006	U		<0.006	U	
	30 ft	VMP-45-30-041912	4/19/2012	<0.21	U		<0.2	U		<0.21	U		<0.19	U		<0.19	U		400			<0.098	U		0.27		J	<0.16	U	
		VMP-45-30-071912	7/19/2012	<0.052	U		<0.051	U		<0.054	U		<0.047	U		<0.047	U		9.1			<0.024	U		<0.041	U		<0.041	U	
		VMP-45-30-101512	10/15/2012	<0.0075	U		<0.0074	U		0.0035	J		<0.0068	U		<0.0068	U		1.8			<0.0035	U		<0.006	U		<0.006	U	
		VMP-45-30-101512-Dup	10/15/2012	<0.0074	U		<0.0073	U		0.0039	J		<0.0067	U		<0.0067	U		1.9			<0.0035	U		<0.0059	U		<0.0059	U	

Notes
Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL
Indicates a historical exceedance or screening criteria.
Indicates a current exceedance or screening criteria.
Empty cell without a value indicates previous quarter analyte result was rejected or the analyte was not part of method list when sampled.
URS Qualifiers
J = Estimated detection
UJ = Estimated non-detect
U = Non-detect due to blank contamination

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						2.8			450000			52			42									40000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	0 024			<0 0068	U		0.1			<0 0088	U		<0.014	U		0 0024	J		<0 0029	U					0.004		
		VMP-10-5-111810	11/17/2010	0.0074	J		<0 0063	U		0.00098	J		0 0015	J		<0.012	U		<0 0047	U		<0.0027	U					0.002	J	
		VMP-10-5-021011	2/10/2011	<0.011	U		<0 0062	U		<0 0038	U		<0.008	U		<0.012	U		<0 0046	U		<0.0026	U					<0.0035	U	
		VMP-10-5-040511	4/5/2011	0 035			<0 0057	U		0.38			<0 0074	U		<0.011	U		<0 0043	U		<0 0024	U		0.013			0 0082	J	
		VMP-10-5-07/2911	7/29/2011	0.13			<0 0069	U		0.07			<0.009	U		<0.014	U		<0 0052	U		<0.003	U		<0.013	U		0.016	J	
		VMP-10-5-110411	11/4/2011	0 018			<0 0036	U		0.0033			<0 0046	U		<0 0072	U		<0 0027	U		<0.0015	U		<0.0066	U		0 0071	J	
		VMP-10-5-012512	1/26/2012	0 007	J		<0 0045	U		0 018			0.00086	J		<0.009	U		<0 0034	U		<0 0019	U		0 0059	J		0 0033	J	
		VMP-10-5-041212	4/12/2012	0.04			<0 0049	U		0.0078			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		0.011			0.013		
		VMP-10-5-071312	7/13/2012	0 033			<0.005	U		0.0025	J		<0 0065	U		<0 01	U		<0.037	U	UJ	<0 0021	U		<0.0092	U		0 0057	J	
		VMP-10-5-101612	10/16/2012	0 032	J		<0 0078	U		1 9			<0 01	U		<0.016	U		<0.059	U		<0 0034	U		0.085			<0.018	U	
	10 ft	VMP-10-10-090710	9/7/2010	0 023			<0 0068	U		0 075			<0 0088	U		<0.014	U		<0 0051	U		<0 0029	U					0 0033	J	
		VMP-10-10-111810	11/17/2010	0.01	J		<0 0067	U		0 001	J		0.0023	J		<0.013	U		<0.005	U		<0 0028	U					0 0018	J	
		VMP-10-10-021111	2/11/2011	0 011			<0 0052	U		0.0011	J		<0 0068	U		<0 01	U		<0 0039	U		<0.0022	U					0 0081		
		VMP-10-10-040611	4/6/2011	0.0084	J		<0 0068	J	U	0 067			<0 0088	U		<0.014	U		<0 0051	U		<0 0029	U		0 0086	J		0 0015	J	
		VMP-10-10-072911	7/29/2011	0 061			<0 0071	U		0 072			<0 0092	U		<0.014	U		<0 0054	U		<0.003	U		<0.013	U		0.023		
		VMP-10-10-110411	11/4/2011	0 012		J	<0 0046	U		0.0063			<0.006	J	U	<0 0092	J	U	<0 0035	U		<0.002	U		<0.0085	U		0 0045	J	
		VMP-10-10-110411-DUP	11/4/2011	0 051		J	<0 0046	U		0.0067			<0.006	U		<0 0092	J	U	<0 0035	U		<0.002	U		<0.0085	U		0 01	J	
		VMP-10-10-012512	1/26/2012	0 017			<0 0045	U		0.0042		J	<0 0059	U		<0.009	U		<0 0034	U		<0.0019	U		<0.0083	U	UJ	0.014		
		VMP-10-10-012512-DUP	1/26/2012	0.02			<0 0047	U		0 048		J	0.0007	J		<0 0094	U		<0 0036	U		<0.002	U		0.026		J	0.015		
		VMP-10-10-041112	4/11/2012	0 084			<0 0049	U		0.0096			<0 0064	U		<0 0099	U		<0.037	U		<0.0021	U		0 0039	J		0.034		
		VMP-10-10-071312	7/13/2012	0 029			<0 0049	U		0.01			<0 0063	U		<0 0097	U		<0.036	U	UJ	<0.0021	U		<0.0089	U		0 0038	J	
		VMP-10-10-101612	10/16/2012	0 024	J		<0 0082	U		0.95			<0 01	U		<0.016	U		<0.061	U		<0 0035	U		0.084			<0.019	U	
	20 ft	VMP-10-20-090710	9/7/2010	0 036			<0 0071	U		0 039		J	<0 0092	U		<0.014	U		<0 0054	U		<0.003	U					0 0058		
		VMP-10-20-090710-DUP	9/7/2010	0 029			<0 0067	U		0 019		J	<0 0086	U		<0.013	U		<0.005	U		<0 0028	U					0 0046		
		VMP-10-20-111810	11/17/2010	0.0093	J	J	<0.013	U		<0 0078	U		0 0042	J		<0.025	U		<0 0095	U		<0.0054	U					<0.0072	U	
		VMP-10-20-111810-Dup	11/17/2010	0.14		J	<0 0064	U		0.0017	J		0 0017	J		<0.013	U		<0 0048	U		<0.0027	U					0 0014	J	
		VMP-10-20-021111	2/11/2011	0.0092	J		<0 0063	U		0.02			<0 0082	U		<0.013	U		<0 0047	U		<0.0027	U					<0.0036	U	
		VMP-10-20-040611	4/6/2011	0.05			<0 0076	J	U	0.18			<0 0098	U		<0.015	U		<0 0057	U		<0 0032	U		0.022			0.096		
		VMP-10-20-072911	7/29/2011	0 055			<0 0071	U		0.12			<0 0091	U		<0.014	U		<0 0053	U		<0.003	U		<0.013	U		0.016		
		VMP-10-20-110411	11/4/2011	0 014			<0 0046	U		0.0042			<0.006	U		<0 0092	J	U	<0 0035	U		<0.002	U		0 0064	J		0.007	J	
		VMP-10-20-012612	1/26/2012	0 031			<0 0043	U		0 066			0.00095	J		<0 0087	U		<0 0033	U		<0 0018	U		0 01			0.028		
		VMP-10-20-041212	4/12/2012	0 032			<0 0049	U		0 011			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		0 0052	J		0 0068	J	
		VMP-10-20-071612	7/16/2012	0 021	J		<0 0046	U		0.0084			<0.006	U		<0 0092	U		<0.035	U	UJ	<0.002	U		<0.0085	U		0.003	J	
		VMP-10-20-101612	10/16/2012	0 077			<0 0082	U		0.16			<0.011	U		<0.016	U		<0.062	U		<0 0035	U		0.013	J		<0.019	U	
	30 ft	VMP-10-30-041212	4/12/2012	0 087			<0 0051	U		0.0039			<0 0066	U		<0 01	U		<0.038	J	UJ	<0 0022	U		0 0024	J		0.029		
		VMP-10-30-071612	7/16/2012	0 021			<0 0045	U		0 013			<0 0058	U		<0 0089	U		<0.034	U	UJ	<0 0019	U		<0.0082	U		0 0041	J	
		VMP-10-30-101612	10/16/2012	0 081			<0 0078	U		0 029			<0 01	U		<0.016	U		<0.058	U		<0 0033	U		<0.014	U		0 0059	J	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	0 036			<0 0064	U		0 014			<0 0083	U		<0.013	U		<0 0048	U		<0 0027	U					0 0048		
		VMP-11-5-112210	11/22/2010	0 015			<0 0067	U		0.00089	J		<0 0086	U		<0.013	U		<0.005	U		<0 0028	U					0 0034	J	
		VMP-11-5-021511	2/15/2011	0 018			<0 0059	U		0.0023	J		<0 0076	U		<0.012	U		<0 0044	U		<0.0025	U					0 0028	J	
		VMP-11-5-040611	4/6/2011	0.02	J		<0.056	U		8 9			<0.072	U		<0.11	U		<0.042	U		<0.024	U		0 86			<0.13	U	
		VMP-11-5-080711	8/7/2011	0 065	J		<0.077	U		0.1			<0.1	U		<0.15	U		<0.058	U		<0.033	U		<0.14	U		<0.18	U	
		VMP-11-5-111111	11/11/2011	0.0078	J		<0.015	U		0 016			<0 02	U		<0 03	U		<0.011	U		<0 0065	U		0.74			<0.035	U	
		VMP-11-5-012612	1/26/2012	0 014			<0 0045	U		0.0017	J		<0 0059	U		<0.009	U		<0 0034	U		<0.0019	U		<0.0083	U		0 0036	J	
		VMP-11-5-041912	4/19/2012	0 042			<0 0051	U		0 061			<0 0066	U		<0 01	U		<0.038	U		<0 0022	U		0 0034	J		0.047		
		VMP-11-5-071912	7/16/2012	0 036			<0 0066	J	U	0 006			<0 0085	U		<0.013	U		<0.049	U	UJ	<0 0028	U		<0.012	U		0.004	J	
		VMP-11-5-101612	10/16/2012	0 028	J		<0 0073	U		0 003	J		<0 0095	U		<0.015	U		<0.055	U		<0 0031	U		<0.013	U		0 0038	J	
	8 ft	VMP-11-8-090810	9/8/2010	0 017			<0 0067	U		0 024			<0 0086	U		<0.013	U		<0.005	U		<0 0028	U					0 0023	J	
		VMP-11-8-112210	11/22/2010	0 014			<0 0067	U		0.0017	J		<0 0086	U		<0.013	U		<0.005	U		<0 0028	U					<0.0038	U	
		VMP-11-8-021111	2/11/2011	0.0085	J		<0 0065	U		0.03			<0 0084	U		<0.013	U		<0 0048	U		<0 0028	U					<0.0037	U	
		VMP-11-8-021111-DUP	2/11/2011	0.0066	J		<0 0061	U		0 014			<0 0079	U		<0.012	U		<0 0046	U		<0.0026	U					<0.0035	U	
		VMP-11-8-040611	4/6/2011	<0.053	U		<0.029	U		6 2			<0.037	U		<0.057	U		<0.022	U		<0.012	U		0 23			<0.065	U	
		VMP-11-8-040611-DUP	4/6/2011	0 018	J		<0.025	U		5 5			<0.032	U		<0 05	U		<0.019	U		<0.011	U		0.17			<0.057	U	
		VMP-11-8-080711	8/7/2011	0 057	J		<0.077	U		0.33			<0.1	U		<0.15	U		<0.058	U		<0.033	U		<0.14	U		0.028	J	
		VMP-11-8-111411	11/14/2011	0 019			<0 0046	U		0.7			<0 0059	U		<0 0091	U		<0 0034	U		<0.0019	U		0.042			0 0052	J	
		VMP-11-8-012612	1/26/2012	0.0075	J		<0 0044	U		0.0016	J		<0 0057	U		<0 0088	U		<0 0033	U		<0.0019	U		<0.0081	U		0 0035	J	
		VMP-11-8-041912	4/19/2012	0 039			<0 0051	U		0.11			<0 0066	U		<0 01	U		<0.038	U		<0 0022	U		0 0042	J		0.054		
		VMP-11-8-072012	7/20/2012	0 025			<0 0051	U		0.0017	J		<0 0066	U		<0 01	U		<0.038	U		<0 0022	U		<0.0093	U		<0.012	U	
		VMP-11-8-101612	10/16/2012	0.08			<0 0074	U		0 012			<0 0096	U		<0.015	U		<0.056	U		<0 0032	U		<0.014	U		0 02		
		VMP-11-8-101612-Dup	10/16/2012	0 065			<0 0075	U		0 012			<0 0097	U		<0.015	U		<0.056	U		<0 0032	U		<0.014	U		0.022		
	29 ft	VMP-11-29-090810	9/8/2010	<0 31	U		<0.17	U		120			<0 22	U		<0 33	U		<0.12	U		<0.071	U					<0.095	U	
		VMP-11-29-112210	11/22/2010	<4.4	U		<2.4	U		460			<3.1	U		<4.8	U		<1.8	U		<1	U					<1.4	U	
		VMP-11-29-112210-Dup	11/22/2010	<3	U		<1.6	U		440			<2.1	U		<3.3	U		<1.2	U		<0.71	U					<0 94	U	
		VMP-11-29-021411	2/14/2011	0.01	J		<0 0065	U		0.0042			<0 0084	U		<0.013	U		<0 0048	U		<0.0028	U					<0.0037	U	
		VMP-11-29-040611	4/6/2011	0 023	J		<0.049	U		9.4			<0.063	U		<0.098	U		<0.037	U		<0.021	U		0 26			<0.11	U	
		VMP-11-29-082511	8/25/2011	0 018			<0 0071	U		0.0039	J		<0 0092	U		<0.014	U		<0 0054	U		<0.003	U		<0.013	U		0 0069	J	
		VMP-11-29-082511-Dup	8/25/2011	0 023			<0 0071	U		0.0039	J		<0 0092	U		<0.014	U		<0 0054	U		<0.003	U		<0.013	U		0 0062	J	
		VMP-11-29-111411	11/14/2011	0 015			<0 0045	U		0 009			<0 0059	U		<0.009	U		<0 0034	U		<0.0019	U		<0.0083	U		0.003	J	
		VMP-11-29-012612	1/26/2012	0.0049	J		<0 0043	U		0.0016	J		0 0026	J		<0 0087	U		<0 0033	U		<0.0018	U		<0.008	U		0 0012	J	
		VMP-11-29-042712	4/27/2012	0 014	J		<0 0045	U		0.14			<0 0059	U		<0.009	U		<0.034	U		<0 0019	U		<0.0083	U		0.016		
		VMP-11-29-072012	7/23/2012	0.11			<0 0045	J	U	0 018			0.0023	J		<0.009	U		<0.034	U		<0 0019	U		0.005	J		0.021		
		VMP-11-29-101612	10/16/2012	0 027	J		<0 0077	U		0.0015	J		<0 0099	U		<0.015	U		<0.057	U		<0.0033	U		<0.014	U		<0.017	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0 62	U		<1.4	U		370			<0.44	U		<0 68	U		<0 25	U		<0.14	U		0.13	J		<0.77	U	
		VMP-11-38-042312-Dup	4/23/2012	<2.2	U		<4.7	U		380			<1.5	U		<2.4	U		<0 89	U		<0 51	U		<2.2	U		<2.7	U	
		VMP-11-38-072312	7/23/2012	<1	U		<0 56	U		170			<0.73	U		<1.1	U		<0.42	U		<0 24	U		<1	U		<1.3	U	
		VMP-11-38-101612	10/16/2012	0 026	J		<0 0078	U		0.01			<0 01	U		<0.016	U		<0.058	U		<0 0033	U		0.012	J		<0.018	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						2.8			450000			52			42									40000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<13	U		<7	U		230			<9	U		<14	U		<5.2	U		<3	U					<4	U	
		VMP-12-5-120310	12/3/2010	<130	U		<69	U		16000			<89	U		<140	U		<52	U		<29	U					<39	U	
		VMP-12-5-021511	2/15/2011	<5.8	U		<3.2	U		80			<4.1	U		<6.3	U		<2.4	U		<1.3	U					<1.8	U	
		VMP-12-5-041911	4/19/2011	17	J		<23	U		5 8	J		<30	U		<46	U		<17	U		<9.9	U		3200			<53	U	
		VMP-12-5-080411	8/4/2011	<11	U		<6	U		200			<7.7	U		<12	U		<4.5	U		<2.6	U		2800			<14	U	
		VMP-12-5-111611	11/16/2011	<0 0077	U		<0 0042	U		0 9			<0 0055	U		<0 0084	U		<0 0032	U		<0.0018	U		0.098			0 0017	J	
		VMP-12-5-012412	1/24/2012	<0.087	J	U	<0.19	U		6 8			<0.061	U		<0 38	U		<0.036	U		<0 02	U		3			<0.11	U	
		VMP-12-5-041912	4/19/2012	0 021	J		<0 0047	U		0 063			<0 0061	U		<0 0094	U		<0.036	U		<0.002	U		0 0057	J		0 0051	J	
		VMP-12-5-072612	7/26/2012	0 057			<0.005	U		0.12		J	<0 0065	U		<0 01	U		<0.038	U		<0 0022	U		0.014			0 0057	J	
		VMP-12-5-072612-Dup	7/26/2012	0 032			<0 0046	U		0.0018	J	J	<0.006	U		<0 0092	U		<0.034	U		<0.002	U		<0.0085	U		<0 01	U	
		VMP-12-5-102412	10/24/2012	0 023	J		<0 0078	U		0 025			<0 01	U		<0.016	U		<0.058	U		<0 0033	U		<0.014	U		0 0054	J	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<16	U		<8.9	U		4100			<12	U		<18	U		<6.7	U		<3.8	U					<5.1	U	
		VMP-12-11.5-120310	12/3/2010	<14	U		<7.7	U		2000			<10	U		<15	U		<5.8	U		<3.3	U					<4.4	U	
		VMP-12-11.5-021511	2/15/2011	<13	U		<6.9	U		1600			<9	U		<14	U		<5.2	U		<3	U					<4	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<11	U		<6	U		1300			<7.7	U		<12	U		<4.5	U		<2.6	U					<3.4	U	
		VMP-12-11.5-041911	4/19/2011	15	J		<21	U		810			<27	U		<42	U		<16	U		<8.9	U		4300			<48	U	
		VMP-12-11.5-080411	8/4/2011	<13	U		<7.3	U		1200			<9.4	U		<14	U		<5.5	U		<3.1	U		1500			<17	U	
		VMP-12-11.5-111611	11/16/2011	<0.11	U		<0.058	U		4 6			<0.075	U		<0.12	U		<0.044	U		<0.025	U		2.8			<0.13	U	
		VMP-12-11.5-012412	1/24/2012	<1	U		<2.2	U		4.1			<0.7	U		<4.3	U		<0.41	U		<0 23	U		100			<1.2	U	
		VMP-12-11.5-041912	4/19/2012	<0.091	U		<0.049	U		0 065			<0.064	U		<0.099	U		<0.037	U		<0.021	U		0.3			<0.11	U	
		VMP-12-11.5-082012	8/20/2012	0 031	J	J	<0 0078	U		0 044			<0 01	U		<0.016	U		0 0032	J		<0 0034	U		<0.014	U		0.048		
		VMP-12-11.5-102612	10/26/2012	0 026	J		<0 0075	U		0.0098			<0 0097	U		<0.015	U		<0.056	U		<0.0032	U		0.041			0 0055	J	
	25 ft	VMP-12-25-090310	9/3/2010	<21	U		<11	U		14000			<15	U		<23	U		<8.5	U		<4.9	U					<6.5	U	
		VMP-12-25-120310	12/3/2010	<1	U		<0 56	U		3 8			<0.73	U		<1.1	U		<0.42	U		<0 24	U					<0 32	U	
		VMP-12-25-021511	2/15/2011	6 9	J		<14	U		7600			<18	U		<27	U		<10	U		<5.9	U					<7.8	U	
		VMP-12-25-041911	4/19/2011	27	J		<22	U		8300			<29	U		<45	U		<17	U		<9.6	U		3500			<51	U	
		VMP-12-25-080411	8/4/2011	<26	U		<14	U		3500			<18	U		<28	U		<11	U		<6.1	U		4000			<32	U	
		VMP-12-25-111611	11/16/2011	<30	U		<16	U		2600			<21	U		<32	U		<12	U		<6.9	U		3400			7.8	J	
		VMP-12-25-012412	1/24/2012	<11	U		<25	U		5100			<8	U		<50	U		<4.7	U		<2.6	U		3200			<14	U	
		VMP-12-25-012412-DUP	1/24/2012	7 3	J		<180	U		5400			<59	U		<360	U		<34	U		<19	U		3300			<100	U	
		VMP-12-25-041912	4/19/2012	<8.7	U		<4.7	U		500			<6.1	U		<9.4	U		<3.6	U		<2	U		360			<11	U	
		VMP-12-25-072712	7/27/2012	<9.5	U		<5.2	U		24			<6.7	U		<10	U		<3.9	U		<2.2	U		28			<12	U	
		VMP-12-25-072712-Dup	7/27/2012	<9.5	U		<5.2	U		30			<6.7	U		<10	U		<3.9	U		<2.2	U		34			<12	U	
		VMP-12-25-102512	10/25/2012	<4.1	U		<2.2	U		0.47	J		<2.9	U		<4.5	U		<1.7	U		<0 96	U		2.9	J		<5.1	U	
	39 ft	VMP-12-39-041911	4/19/2011	24	J		<22	U		10000			<28	U		<44	U		<16	U		<9.3	U		3200			<50	U	
		VMP-12-39-012412	1/24/2012	<83	U		<180	U		5400			<59	U		<360	U		<34	U		<19	U		3300			<100	U	
		VMP-12-39-041912	4/19/2012	5 6	J		<23	U		1400			<29	U		<45	U		<17	U		<9.7	U		930			<52	U	
		VMP-12-39-072612	7/26/2012	<19	U		<10	U		3100			<13	U		<21	U		<7.8	U		<4.4	U		580			<24	U	
		VMP-12-39-102412	10/24/2012	<50	U		<27	U		1200			<36	U		<55	U		<20	U		<12	U		93			<62	U	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	0 032	J		<0.046	U		9			<0.059	U		<0.091	U		<0.034	U		<0.019	U					0 0055	J	
		VMP-13-5-120110	12/1/2010	0 013			<0.006	U		0.0049			<0 0078	U		<0.012	U		<0 0045	U		<0 0026	U					<0.0034	J	U
		VMP-13-5-021811	2/18/2011	0 013	J		<0 0071	U		0.0023	J		<0 0092	U		<0.014	U		<0 0054	U		<0.003	U					0 0019	J	
		VMP-13-5-040511	4/5/2011	0 017	J		<0.014	U		0 048			<0.018	U		<0.028	U		<0.011	U		<0 0061	U		0.018	J		<0.032	U	
		VMP-13-5-080911	8/9/2011	0 061		J	<0.015	J	U	0 026		J	<0 02	U		<0.031	U		<0.011	U		<0 0065	U		1.7		J	0.013	J	
		VMP-13-5-080911-DUP	8/9/2011	0 095		J	<0.014	U		0 018		J	<0.018	U		<0.027	U		<0 01	U		<0 0058	U		1.2		J	0.015	J	
		VMP-13-5-111411	11/14/2011	0.01			<0 0048	U		0 011			<0 0062	U		<0 0095	U		<0 0036	U		<0.002	U		0 0032	J		0.003	J	
		VMP-13-5-012712	1/27/2012	0 034	J	J	<0.16	U		8 2		J	<0.052	U		<0 32	U		<0 03	U		<0.017	U		0 21		J	<0.091	U	
		VMP-13-5-042012	4/20/2012	0 019	J		<0 0046	J	U	0.0027	J		<0.006	U		<0 0092	U		<0.035	U		<0.002	U		<0.0085	U		0.019		
		VMP-13-5-071912	7/19/2012	0.1			<0 0048	U	UJ	0.0039			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		0 0029	J	J	0.017		
		VMP-13-5-071912-Dup	7/19/2012	0 097			<0 0048	U	UJ	0 004			<0 0063	U		<0 0097	U		<0.036	U		<0.0021	U			J	J	0.016		
		VMP-13-5-100912	10/9/2012	0 023	J		<0 0075	U		0 017			<0 0097	U		<0.015	U		<0.056	U		<0 0032	U		<0.014	U		0 0055	J	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	0 017	J		<0.017	U		3 3			<0.022	U		<0.034	U		<0.013	U		<0 0072	U					<0.0096	U	
		VMP 13-10 5-091310-Dup	9/13/2010	0.07			<0.016	U		3.4			<0.021	U		<0.033	U		<0.012	U		<0.007	U					0 0036	J	
		VMP-13-10.5-120110	12/1/2010	0 012			<0 0067	U		0.0045			<0 0087	U		<0.013	U		<0.005	U		<0 0029	U					<0.0038	J	U
		VMP-13-10.5-120110-DUP	12/1/2010	<0.013	J	U	<0.007	U		0.0066			<0.009	U		<0.014	U		<0 0052	U		<0.003	U					<0.004	J	U
		VMP-13-10.5-021811	2/18/2011	2 8	J		<2.8	U		420			<3.6	U		<5.5	U		<2.1	U		<1.2	U					<1.6	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<4.9	U		<2.7	U		420			<3.4	U		<5.3	U		<2	U		<1.1	U					<1.5	U	
		VMP-13-10.5-040511-DUP	4/5/2011	0 012	J		<0 0071	U		0 017			<0 0092	U		<0.014	U		<0 0054	U		<0.003	U		0.012	J		<0.016	U	
		VMP-13-10.5-080911	8/9/2011	<0 29	U		<0.16	U		51			<0.2	U		<0 31	U		<0.12	U		<0.067	U		33			<0 36	U	
		VMP-13-10.5-111411	11/14/2011	0 013			<0 0046	U		0 013			<0 0059	U		<0 0091	U		<0 0034	U		<0 0019	U		0 0054	J		0 0037	J	
		VMP-13-10.5-012712	1/26/2012	0.02	J		<0.013	U		2 6		J	<0.016	U		<0.025	U		<0 0095	U		<0 0054	U		0 05			<0.029	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.033	U		<0.018	U		3 9		J	<0.023	U		<0.036	U		<0.014	U		<0 0077	U		0 08			<0.041	U	
		VMP-13-10.5-042012	4/20/2012	0 027			0.0014	J		0.0088			<0 0059	U		<0.009	U		<0.034	U		<0 0019	U		0 0046	J		0.015		
		VMP-13-10.5-071912	7/19/2012	0.15			<0 0048	U	UJ	0.0078			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		0 0061	J	J	0.021		
		VMP-13-10.5-100912	10/9/2012	0 024	J		<0 0064	U		0 025			<0 0083	U		<0.013	U		<0.048	U		<0 0027	U		<0.012	U		0 0036	J	
		VMP-13-10.5-100912-Dup	10/9/2012	0 011	J		<0 0077	U		0 023			<0 0099	U		<0.015	U		<0.057	U		<0 0033	U		<0.014	U		<0.017	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<23	U		<12	U		5800			<16	U		<25	U		<9.4	U		<5.4	U					<7.1	U	
		VMP-13-21.5-120110	12/1/2010	<44	U		<24	U		5400			<31	U		<48	U		<18	U		<10	U					<14	U	
		VMP-13-21.5-021811	2/18/2011	<6.6	U		<3.6	U		640			<4.7	U		<7.2	U		<2.7	U		<1.5	U					<2.1	U	
		VMP-13-21.5-040511	4/5/2011	<9.6	U		<5.2	U		1400			<6.8	U		<10	U		<3.9	U		<2.2	U		35			<12	U	
		VMP-13-21.5-080911	8/9/2011	<1.2	U		<0 65	U		830			<0 84	U		<1.3	U		<0.49	U		<0 28	U		59			<1.5	U	
		VMP-13-21.5-111411	11/14/2011	3 6	J		<3	U		420			<3.8	U		<5.9	U		<2.2	U		<1.3	U		32			0 98	J	
		VMP-13-21.5-111411-DUP	11/14/2011	3.7	J		<3	U		410			<3.8	U		<5.9	U		<2.2	U		<1.3	U		31			<6.8	U	
		VMP-13-21.5-012712	1/27/2012	<1.3	U		<2.8	U		370		J	<0.9	U		<5.5	U		<0 52	U		<0.3	U		16		J	<1.6	U	
		VMP-13-21.5-042012	4/20/2012	0.17	J		<0.077	U		0 098			<0.1	U		<0.15	U		<0 58	U		<0.033	U		5 6			<0.18	U	
		VMP-13-21.5-071912	7/19/2012	0.18			<0 0048	U	UJ	0 009			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		0.13	J	J	0.038		
		VMP-13-21.5-100912	10/9/2012	0 012	J		<0 0078	U		0 088			<0 01	U		<0.016	U		<0.059	U		<0 0034	U		0 24			<0.018	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<200	U		<110	U		17000			<140	U		<220	U		<84	U		<48	U					<64	U	
		VMP-13-29.5-040511	4/5/2011	<130	U		<72	U		23000			<94	U		<140	U		<54	U		<31	U		94	J		<160	U	
		VMP-13-29.5-013012	1/30/2012	<4.1	U		<2.2	U		8600			<2.9	U		<4.4	U		<1.7	U		<0 94	U		32		J	<5	U	
		VMP-13-29.5-042012	4/20/2012	3 2	J		<2.9	U		2300			<3.8	U		<5.8	U		<22	U		<1.2	U		57			<6.6	U	
		VMP-13-29.5-071912	7/19/2012	<15	U		<8.3	U		2600			<11	U		<17	U		<6.2	U		<3.6	U		30			<19	U	
		VMP-13-29.5-100912	10/9/2012	<14	U		<7.8	U		630			<10	U		<16	U		<5.9	U		<3.4	U		51			<18	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						2.8			450000			52			42									40000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0 59	U		<0 32	U		0.71			<0.42	U		<0 64	U		<0 24	U		<0.14	U					<0.18	U	
		VMP-14-5-120110	12/1/2010	0 017			<0 0062	U		0 008			0 0012	J		<0.012	U		<0 0047	U		<0 0026	U					0 0028	J	
		VMP-14-5-021711	2/17/2011	0.0069	J		<0 0068	U		1 2			<0 0088	U		<0.014	U		<0 0051	U		<0 0029	U					<0.0039	U	
		VMP-14-5-040511	4/5/2011	0 012	J		<0.007	U		0 011			<0.009	U		<0.014	U		<0 0052	J	U	<0.003	U		1.5	E	J	<0.016	U	
		VMP-14-5-080811	8/8/2011	<13	U		<7.3	U		13			<9.4	U		<14	U		<5.4	U		<3.1	U		2600			<16	U	
		VMP-14-5-111411	11/14/2011	0.0078	J		<0.018	U		3.1			<0.024	U		<0.036	U		<0.014	U		<0 0078	U		0.011	J		<0.042	U	
		VMP-14-5-042012	4/20/2012	0 012	J		<0 0044	U		0 026			<0 0057	U		<0 0088	U		<0.033	U		<0 0019	U		0.037			0.018		
		VMP-14-5-072312	7/23/2012	0 2			0.0084			0.43			<0 0069	U		<0.011	U		0 0023	J		<0 0023	U		0 0038	J		0 09		
		VMP-14-5-101012	10/10/2012	0 012	J		<0 0075	U		0 025			<0 0097	U		<0.015	U		<0.056	U		<0 0032	U		<0.014	U		0 0038	J	
	11.5 ft	VMP 14-11 5-091010	9/10/2010	<9.1	U		<4.9	U		52			<6.4	U		<9.9	U		<3.7	U		<2.1	U					<2.8	U	
		VMP-14-11.5-120110	12/2/2010	<0.8	U		<0.43	U		0.28			<0 56	U		<0 87	U		<0 33	U		<0.18	U					<0 25	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0.72	U		<0 39	U		0.28			<0 51	U		<0.78	U		<0.3	U		<0.17	U					<0 22	U	
		VMP-14-11.5-021711	2/17/2011	<0 26	U		<0.14	U		0.86			<0.18	U		<0 28	U		<0.11	U		<0.061	U					<0.081	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0 26	U		<0.14	U		1			<0.18	U		<0 28	U		<0.11	U		<0.061	U					<0.081	U	
		VMP-14-11.5-040511	4/5/2011	<0.043	U		<0.023	U		0 079			<0 03	U		<0.046	U		<0.017	U		<0 0099	U		18	E	J	0.014	J	
		VMP-14-11.5-080811	8/8/2011	<1.3	U		<0.72	U		0.18	J		<0 93	U		<1.4	U		<0 54	U		<0 31	U		320			<1.6	U	
		VMP-14-11.5-111511	11/15/2011	1 8	J		<1.1	U		2 2			<1.4	U		<2.2	U		<0 84	U		<0.48	U		560			0 53	J	
		VMP-14-11.5-012612	1/26/2012	<8.4	U		<18	U		3 8			<5.9	U		<36	U		<3.4	U		<1.9	U		1500			<10	U	
		VMP-14-11.5-042312	4/23/2012	0 015	J		<0 0047	U		0.0068			<0 0061	U		<0 0094	U		<0.036	U		<0.002	U		0.044			0.011		
		VMP-14-11.5-042312-Dup	4/23/2012	0.0098	J		<0 0047	U		0.0068			<0 0061	U		<0 0094	U		<0.036	U		<0.002	U		0.046			0 0081	J	
		VMP-14-11.5-072512	7/25/2012	<3	U		<1.7	U		<1	U		<2.2	U		<3.3	U		<1.2	U		<0.71	U		460			<3.8	U	
		VMP-14-11.5-101012	10/10/2012	0 024	J		<0 0071	U		0.0039	J		<0 0092	U		<0.014	U		<0.054	U		<0.003	U		0.018			<0.016	U	
	20 ft	VMP 14-20-091010	9/10/2010	<140	U		<75	U		37000			<97	U		<150	U		<56	U		<32	U					<43	U	
		VMP 14-20-091010-Dup	9/10/2010	<140	U		<78	U		35000			<100	U		<160	U		<59	U		<33	U					<44	U	
		VMP-14-20-120110	12/2/2010	<370	U		<200	U		47000			<260	U		<400	U		<150	U		<87	U					<120	U	
		VMP-14-20-021811	2/18/2011	<210	U		<110	U		20000			<150	U		<230	U		<86	U		<49	U					<65	U	
		VMP-14-20-040511	4/5/2011	18	J		<49	U		22000			<64	U		<98	U		<37	U		<21	U		3400			<110	U	
		VMP-14-20-080811	8/8/2011	<33	U		<18	U		17000			<23	U		<36	U		<13	U		<7.6	U		6000			<41	U	
		VMP-14-20-111511	11/15/2011	<170	U		<92	U		16000			<120	U		<180	U		<69	U		<39	U		5900			<210	U	
		VMP-14-20-012612	1/26/2012	2 8	J	J	<36	U		17000			<12	U		<72	U		<6.8	U		<3.9	U		4100		J	<21	U	
		VMP-14-20-042312	4/23/2012	<9.1	U		<20	U		13000			<6.4	U		<9.9	U		<3.7	U		<2.1	U		2400			<11	U	
		VMP-14-20-072512	7/25/2012	<14	U		<7.9	U		13000			<10	U		<16	U		<5.9	U		<3.4	U		2200			<18	U	
		VMP-14-20-101612	10/16/2012	16	J		<36	U		9400			<47	U		<73	U		<27	U		<16	U		1100			<83	U	
	29 ft	VMP-14-29-021811	2/18/2011	240	J		<170	U		40000			<220	U		<330	U		<120	U		<71	U					<95	U	
		VMP-14-29-040511	4/5/2011	<260	U		<140	U		51000			<180	U		<280	U		<110	U		<61	U		4900			<320	U	
		VMP-14-29-012612	1/26/2012	<300	U		<650	U		26000			<210	U		<1300	U		<120	U		<69	U		4000			<370	U	
		VMP-14-29-042312	4/23/2012	<110	U		<230	U		22000			<75	U		<120	U		<43	U		<25	U		2800			<130	U	
		VMP-14-29-072512	7/25/2012	<110	U		<61	U		21000			<79	U		<120	U		<46	U		<26	U		2900			<140	U	
		VMP-14-29-101612	10/16/2012	<170	U		<91	U		9400			<120	U		<180	U		<68	U		<39	U		1600			<210	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	0 015			<0 0065	U		0.61			<0 0084	U		<0.013	U		<0 0049	J	U	<0 0028	U					0.001	J	
		VMP-15-5-113010	11/30/2010	<0 28	U		<0.15	U		<0.096	U		<0.2	U		<0 31	U		<0.12	U		<0.066	U					<0.088	U	
		VMP-15-5-021611	2/16/2011	0.33			<0.14	U		2			<0.19	U		<0 29	U		<0.11	U		<0.062	U					0 08	J	
		VMP-15-5-042011	4/20/2011	0 083	J		<0 34	U		1.4			<0.44	U		<0 68	U		<0 26	U		<0.15	U		6.3			<0.78	U	
		VMP-15-5-080811	8/8/2011	0 088			<0 0077	J	U	0.14			<0 01	U		<0.015	J	U	<0 0058	U		<0 0033	U		0 0059	J		0.016	J	
		VMP-15-5-111511	11/15/2011	<0.016	U		<0 0086	U		2.1			<0.011	U		<0.017	U		<0 0064	U		<0 0037	U		0.12			0 0034	J	
		VMP-15-5-020112	2/1/2012	0 012	J		<0.18	U		<0.027	U		<0.057	U		<0 35	U		<0.033	U		<0.019	U		<0.081	U		0 0093	J	
		VMP-15-5-042412	4/24/2012	0 026	J		<0.18	U		0 063			<0.059	U		<0 09	U		<0.034	U		<0.019	U		<0.083	U		<0.1	U	
		VMP-15-5-072512	7/25/2012	0 064			<0 0051	U		0 005			<0 0066	U		<0 01	U		0.002	J	J	<0 0022	U		<0.0094	U		0.013		
		VMP-15-5-102512	10/25/2012	0 026	J		0.0013	J		0 013			<0 01	U		<0.015	U		<0.058	U		<0 0033	U		0.18			0.015	J	
	21.5 ft	VMP 15-21 5-091410	9/14/2010	<1.3	U		<0.71	U		0.61			<0 92	U		<1.4	U		<0 53	U		<0.3	U					<0.4	U	
		VMP-15-21.5-113010	11/30/2010	<1.5	U		<0 83	U		<0 51	U		<1.1	U		<1.6	U		<0 62	U		<0 36	U					<0.47	U	
		VMP-15-21.5-021611	2/16/2011	<1.1	U		<0 58	U		2 2			<0.75	U		<1.2	U		<0.43	U		<0 25	U					<0 33	U	
		VMP-15-21.5-042011	4/20/2011	<1.7	U		<0 91	U		1.4			<1.2	U		<1.8	U		<0 68	U		<0 39	U		25			<2.1	U	
		VMP-15-21.5-080811	8/8/2011	0.37	J		<0.73	U		0 8			<0 94	U		<1.4	U		<0 55	U		<0 31	U		35			<1.7	U	
		VMP-15-21.5-111511	11/15/2011	<1.1	U		<0 58	U		0.18	J		<0.75	U		<1.2	U		<0.44	U		<0 25	U		4.4			<1.3	U	
		VMP-15-21.5-020112	2/1/2012	<0.8	U		<1.7	U		0.16	J	J	<0 56	U		<3.5	U		<0 33	U		<0.18	U		<0.8	U		<0 99	U	
		VMP-15-21.5-042412	4/24/2012	<0 35	U		<0.76	U		0.91			<0 24	U		<0 38	U		<0.14	U		<0.081	U		1			<0.43	U	
		VMP-15-21.5-072512	7/25/2012	0.19	J		<0 68	U		0.25	J		<0 89	U		<1.4	U		<0 51	U		<0 29	U		0 26	J		<1.6	U	
		VMP-15-21.5-102512	10/25/2012	<2	U		<1.1	U		0.24	J		<1.4	U		<2.2	U		<0 84	U		<0.48	U		1	J		<2.6	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<2.1	U		<1.2	U		0.24	J		<1.5	U		<2.3	U		<0 87	U		<0.49	U		1.1	J		<2.6	U	
	25.5 ft	VMP 15-25 5-091410	9/14/2010	0 013			<0 0067	U		0 3			<0 0086	U		<0.013	U		<0.005	U		<0 0028	U					0 0015	J	
		VMP-15-25.5-021611	2/16/2011	<0.16	U		<0.089	U		0.36			<0.12	U		<0.18	U		<0.067	U		<0.038	U					<0.051	U	
		VMP-15-25.5-042011	4/20/2011	<0.13	U		<0.073	U		1 6			<0.094	U		<0.14	U		<0.055	U		<0.031	U		0 06	J		<0.17	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.12	U		<0.068	U		1.4			<0.088	U		<0.14	U		<0.051	U		<0.029	U		0 27			<0.16	U	
		VMP-15-25.5-080811	8/8/2011	0 054	J		<0.073	U		0.13			<0.094	U		<0.14	U		<0.055	U		<0.031	U		0 58			<0.17	U	
		VMP-15-25.5-111511	11/15/2011	<0.041	U		<0.022	U		3.4			0.12			<0.045	U		<0.017	U		<0 0096	U		0 35			<0 051	U	
		VMP-15-25.5-073112	7/31/2012	0 091			<0.047	U		0 024	J		<0.061	U		<0.094	U		<0.036	U		<0 02	U		0.71			0.023	J	
		VMP-15-25.5-102512	10/25/2012	<0.035	U		<0 0077	U		0 034			<0 01	U		<0.015	U		<0.058	U		<0 0033	U		0.058			0.019		
	29 ft	VMP-15-29-073112	7/31/2012	0.1	J	J	<0.2	U		0.17		J	<0 26	U		<0.4	U		<0.15	U		<0.087	U		5.8		J	<0.46	U	
		VMP-15-29-102512	10/25/2012	<0.073	U		<0.016	U		0 026			<0.021	U		<0.032	U		<0.12	U		<0 0068	U		0 28			0.033	J	

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CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						2.8			450000			52			42									40000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<23	U		<12	U		17			<16	U		<25	U		<9.2	U		<5.3	U					<7	U	
		VMP-16-5-112910	11/29/2010	<10	U		<5.6	U		16		J	<7.3	U		<11	U		<4.2	U		<2.4	U					<3.2	U	
		VMP-16-5-021511	2/15/2011	<6.3	U		<3.4	U		10		J	<4.4	U		<6.8	U		<2.6	U		<1.5	U					<1.9	U	
		VMP-16-5-042211	4/22/2011	<8.4	U		<4.6	U		7			<5.9	U		<9.1	U		<3.4	U		<1.9	U		260			<10	U	
		VMP-16-5-080511	8/5/2011	0 5	J		<1.4	U		2 9			<1.9	U		<2.9	U		<1.1	U		<0 62	U		39			<3.3	U	
		VMP-16-5-042512	4/25/2012	<9.1	U		<20	U		6			<6.4	U		<9.9	U		<3.7	U		<2.1	U		140			<11	U	
		VMP-16-5-073012	7/30/2012	<8.5	U		<4.6	U		8 8		J	<6	U		<9.2	U		<3.5	U		<2	U		58		J	<10	U	
		VMP-16-5-102512	10/25/2012	<6.7	U		<3.6	U		0.63	J		<4.7	U		<7.3	U		<2.7	U		<1.6	U		4	J		<8.3	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	3 6	J		<13	U		17			<16	U		<26	U		<9.6	U		<5.5	U					<7.3	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<23	U		<13	U		16			<16	U		<26	U		<9.6	U		<5.5	U					<7.3	U	
		VMP-16-13.5-112910	11/29/2010	<66	U		<36	U		21	J		<47	U		<72	U		<27	U		<15	U					<21	U	
		VMP-16-13.5-021611	2/16/2011	<13	U		<7	U		7.1			<9	U		<14	U		<5.2	U		<3	U					<4	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<12	U		<6.8	U		9 3			<8.8	U		<14	U		<5.1	U		<2.9	U					<3.9	U	
		VMP-16-13.5-042211	4/22/2011	<13	U		<7.4	U		8 3			<9.5	U		<15	U		<5.5	U		<3.1	U		320			<17	U	
		VMP-16-13.5-080511	8/5/2011	<1.3	U	UJ	<0.71	U	UJ	0.54		J	<0 92	U	UJ	<1.4	U	UJ	<0 54	U	UJ	<0.3	U	UJ	14		J	<1.6	U	UJ
		VMP-16-13.5-042512	4/25/2012	<1.4	U		<3.2	U		7 6		J	<1	U		<1.6	U		<0 59	U		<0 34	U		360			<1.8	U	
		VMP-16-13.5-073012	7/30/2012	9 8	J		<24	U		27			<31	U		<47	U		<18	U		<10	U		180			<54	U	
		VMP-16-13.5-102512	10/25/2012	20	J		<73	U		22	J		<94	U		<140	U		<55	U		<31	U		77	J		<170	U	
	19 ft	VMP-16-19-090210	9/2/2010	<23	U		<13	U		27			<16	U		<26	U		<9.6	U		<5.5	U					<7.3	U	
		VMP-16-19-112910	11/29/2010	<51	U		<28	U		20			<36	U		<56	U		<21	U		<12	U					<16	U	
		VMP-16-19-021611	2/16/2011	<12	U		<6.7	U		7.7			<8.6	U		<13	U		<5	U		<2.8	U					<3.8	U	
		VMP-16-19-042711	4/27/2011	<12	U		<6.8	U		3.7	J		<8.8	U		<14	U		<5.1	U		<2.9	U		150			<16	U	
		VMP-16-19-042711-DUP	4/27/2011	<12	U		<6.7	U		3.1	J		<8.6	U		<13	U		<5	U		<2.8	U		160			<15	U	
		VMP-16-19-042512	4/25/2012	5 2	J		<73	U		12			<24	U		<36	U		<14	U		<7.8	U		390			<42	U	
		VMP-16-19-073012	7/30/2012	<30	U		<16	U		14			<21	U		<33	U		<12	U		<7	U		230			<37	U	
		VMP-16-19-102512	10/25/2012	15	J		<68	U		14	J		<88	U		<140	U		<51	U		<29	U		130			<160	U	
	31 ft	VMP-16-31-090310	9/3/2010	0 033			<0 0075	U		0.0064			<0 0097	U		<0.015	U		0 0019	J		<0 0032	U					0 0056		
		VMP-16-31-112910	11/29/2010	<52	U		<28	U		20			<36	U		<56	U		<21	U		<12	U					<16	U	
		VMP-16-31-042512	4/25/2012	6.7	J		<89	U		15			<29	U		<44	U		<17	U		<9.5	U		470			<51	U	
		VMP-16-31-073012	7/30/2012	8.1	J		<18	U		16			<23	U		<36	U		<14	U		<7.7	U		320			<41	U	
		VMP-16-31-102512	10/25/2012	<160	U		<85	U		12	J		<110	U		<170	U		<64	U		<36	U		150	J		<190	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	0.06		J	<0.007	U		0.0051			<0.009	U		<0.015	U		<0.005	U		<0.003	U					0.018		J
		VMP-17-5-DUP	6/21/2010	0 027		J	<0.007	U		0.0044	J		<0 01	U		<0.016	U		<0.005	U		<0.003	U					0 0028	J	J
		VMP-17-5-090110	9/1/2010	0.25			<0.007	U		0.0086			<0.009	U		<0.014	U		<0 0052	U		<0.003	U					0.096		
		VMP-17-5-112210	11/22/2010	0.03			<0.007	U		0.0044			<0.009	U		<0.014	U		<0 0052	U		<0.003	U					0 0048		
		VMP-17-5-020711	2/7/2011	0 012	J		<0 0065	U		0.0061			<0 0084	U		<0.013	U		<0 0049	U		<0 0028	U					<0.0037	U	
		VMP-17-5-040611	4/6/2011	0 039	J		<0.026	U		5 8			<0.034	U		<0.052	U		<0 02	U		<0.011	U		0.13			0.005	J	
		VMP-17-5-080111	8/1/2011	<0.18	U		<0.1	U		0.17			<0.13	U		<0.2	U		<0.075	U		<0.042	U		14			<0 23	U	
		VMP-17-5-110711	11/7/2011	0 029			<0 0044	J	U	0.0018	J		<0 0057	U		<0 0088	U		<0 0033	U		<0 0019	U		0 0067	J		0 0063	J	
		VMP-17-5-012612	1/26/2012	0 013			<0 0046	U		0.0022	J		<0.006	U		<0 0092	U		<0 0035	U		<0.002	U		0 0025	J		0 0098	J	
		VMP-17-5-041112	4/11/2012	0 028			<0 0047	U		0 021			<0 0061	U		<0 0094	U		<0.036	U		<0.002	U		0 0051	J		0.039		
		VMP-17-5-071112	7/11/2012	0 099			<0 0051	U	UJ	0.11			<0 0066	U		<0 01	U		<0.038	U		<0 0022	U		0 0061	J		0.034		
		VMP-17-5-100912	10/9/2012	0 062			<0 0078	U		0.0043	J		<0 01	U		<0.016	U		<0.059	U		<0 0034	U		<0.014	U		0 0055	J	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	3 6			<0.063	U		0.82			<0.081	U		<0.12	U		<0.047	U		<0.027	U					<0.14	U	
		VMP-25-5-040811	4/8/2011	0 043	J		<0.028	U		5 2			<0.037	U		<0.057	U		<0.021	U		<0.012	U		0.12			<0.065	U	
		VMP-25-5-080911	8/9/2011	0.16			<0.006	J	U	0.31			<0 0078	U		<0.012	J	U	<0 0045	U		<0 0026	U		0.094			0.058		
		VMP-25-5-111711	11/17/2011	0.0076	J		<0 0043	U		0 011			<0 0056	U		<0 0087	U		<0 0033	U		<0 0018	U		<0.008	U		0 0013	J	
		VMP-25-5-013112	1/31/2012	0.02	J		<0.032	U		4 8			<0.041	U		<0.063	U		<0.024	U		<0.013	U		4			0 01	J	
		VMP-25-5-042512	4/25/2012	0 024			<0 0049	U		0 066			<0 0064	U		<0 0099	U		<0.037	U		<0 0021	U		<0.0091	U		0.031		
		VMP-25-5-072612	7/26/2012	0 021	J		<0.017	U		0.21			<0.022	U		<0.034	U		<0.13	U		<0 0073	U		2			0.017	J	
		VMP-25-5-102612	10/26/2012	0 012	J		<0.007	U		0.0017	J		<0.009	U		<0.014	U		<0.052	U		<0.003	U		<0.013	U		0 0035	J	
	21 ft	VMP-25-21-031511	3/15/2011	1200		J	<12	U		97		J	<16	U		<24	U		<9.2	U		<5.2	U					<28	U	
		VMP-25-21-031511-DUP	3/15/2011	1800		J	<16	U		140		J	<20	U		<31	U		<12	U		<6.7	U					<36	U	
		VMP-25-21-040811	4/8/2011	<240	U		<130	U		130			<170	U		<260	U		<98	U		<56	U		14000			<300	U	
		VMP-25-21-040811-DUP	4/8/2011	<240	U		<130	U		120			<170	U		<260	U		<99	U		<56	U		13000			<300	U	
		VMP-25-21-080911	8/9/2011	<78	U		<43	U		1100			<55	U		<85	U		<32	U		<18	U		15000			<97	U	
		VMP-25-21-111711	11/17/2011	<110	U		<58	U		25	J		<75	U		<120	U		<44	U		<25	U		6800			<130	U	
		VMP-25-21-111711-DUP	11/17/2011	<160	U		<86	U		18	J		<110	U		<170	U		<64	U		<37	U		6900			<200	U	
		VMP-25-21-013112	1/31/2012	<56	U		<120	U		59			<39	U		<240	U		<23	U		<13	U		8300			<69	U	
		VMP-25-21-013112-DUP	2/1/2012	<52	U		<110	U		62			<36	U		<220	U		<21	U		<12	U		9500			<64	U	
		VMP-25-21-042512	4/25/2012	6.7	J		<77	U		37			<25	U		<38	U		<14	U		<8.2	U		12000			<44	U	
		VMP-25-21-072612	7/26/2012	<60	U		<33	U		48			<42	U		<65	U		<24	U		<14	U		15000			<74	U	
		VMP-25-21-102612	10/26/2012	<360	U		<200	U		48	J		<250	U		<390	U		<150	U		<84	U		14000			<440	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	4.4			<0.055	U		<0.034	U		<0.071	U		<0.11	U		<0.41	U		<0.023	U		<0.1	U		12		
		VMP-29-10-100812	10/8/2012	8.4			<0.097	U		0.47			<0.12	U		<0.19	U		<0.73	U		<0.042	U		<0.18	U		22		
	20 ft	VMP-29-20-073012	7/30/2012	170			<0 65	U		0 066	J		<0 84	U		<1.3	U		<0.49	U		<0 28	U		<1.2	U		270		
		VMP-29-20-073012-Dup	7/30/2012	150			<0.6	U		0 047	J		<0.78	U		<1.2	U		<0.45	U		<0 26	U		<1.1	U		240		
		VMP-29-20-100812	10/8/2012	15			<0.097	U		0.12			<0.12	U		<0.19	U		<0.73	U		<0.042	U		<0.18	U		31		
	30 ft	VMP-29-30-073012	7/30/2012	26			<0.11	U		0 057	J		<0.14	U		<0 21	U		<0 08	U		<0.046	U		<0.2	U		60		
		VMP-29-30-100812	10/8/2012	54			<0.48	U		0.11	J		<0 62	U		<0 96	U		<3.6	U		<0.2	U		<0 88	U		72		

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			alpha-Chlorotoluene			Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
				750000						2.8			450000			52			42									40000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	35			<0.19	U		0 016	J		<0 25	U		<0 39	U		<0.14	U		<0.083	U		<0 36	U		97		
		VMP-30-10-100812	10/8/2012	0.87			<0 0073	U		0 016			<0 0094	U		<0.014	U		<0.055	U		<0 0031	U		<0.013	U		2.3		
	20 ft	VMP-30-20-073012	7/30/2012	200			<0 82	U		2.1			<1.1	U		<1.6	U		<0 62	U		<0 35	U		<1.5	U		390		
		VMP-30-20-100812	10/8/2012	44			<0.3	U		0.35			<0 39	U		<0.6	U		<2.2	U		<0.13	U		<0 55	U		45		
	30 ft	VMP-30-30-073012	7/30/2012	320			<0 85	U		7 2			<1.1	U		<1.7	U		<0 63	U		<0 36	U		<1.6	U		380		
		VMP-30-30-100812	10/8/2012	75			<0 62	U		5.4			<0 81	U		<1.2	U		<4.7	U		<0 27	U		0.49	J		100		
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	0.08			<0 0063	U		0.16			<0 0081	U		<0.012	U		<0.047	U		<0 0027	U		0.092			0.022		
		VMP-41-10-100912	10/9/2012	0.02	J		<0 0077	U		0 034			<0 0099	U		<0.015	U		<0.057	U		<0 0033	U		<0.014	U		0.012	J	
	20 ft	VMP-41-20-072712	7/27/2012	0 048			<0 0048	U		0 039			<0 0063	U		<0 0097	U		<0.036	U		<0 0021	U		<0.0089	U		0.012		
		VMP-41-20-072712-Dup	7/27/2012	0 047			<0 0049	U		0 044			<0 0064	U		<0 0099	U		<0.037	U		<0.0021	U		<0.0091	U		0.013		
		VMP-41-20-100912	10/9/2012	0 055			<0 0075	U		0 027			<0 0097	U		<0.015	U		<0.056	U		<0 0032	U		<0.014	U		0.012	J	
		VMP-41-20-100912-Dup	10/9/2012	0 024	J		<0 0077	U		0 027			<0 0099	U		<0.015	U		<0.057	U		<0.0033	U		<0.014	U		0.009	J	
	30 ft	VMP-41-30-072712	7/27/2012	0 094			<0 0049	U		0.34			<0 0064	U		<0 0099	U		<0.037	U		<0 0021	U		0 02			0.023		
		VMP-41-30-100912	10/9/2012	0 019	J		<0.008	U		0 041			<0 01	U		<0.016	U		<0 06	U		<0 0034	U		<0.015	U		0.008	J	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				5300			1.5			420			57000						0.92									0.06		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	0.01			<0 0083	U		<0 0061	U		<0.011	U		<0 0035	U		<0 0064	U		<0.011	U		0 0092			<0 01	U	
		VMP-10-5-111810	11/17/2010	<0 0038	U		0 001	J		<0 0056	U		<0 01	U		<0 0032	U		<0 0059	U		<0 01	U		0 0048			<0.0093	U	
		VMP-10-5-021011	2/10/2011	<0 0037	U		<0 0075	U		<0 0055	U		<0 01	U		<0 0031	U		<0 0058	U		<0 0098	U		0.023			<0.0091	U	
		VMP-10-5-040511	4/5/2011	<0.014	U		<0 0069	U		<0 0051	U		<0 0094	U		<0.012	U		<0 0054	U		<0 0091	U		0 0053			<0.0084	U	
		VMP-10-5-07/2911	7/29/2011	0.0079	J		<0 0084	U		<0 0062	U		<0.011	U		<0.014	U		<0 0065	U		<0.011	U		<0.0046	U		<0 01	U	
		VMP-10-5-110411	11/4/2011	<0 0086	U		<0 0044	U		<0 0032	U		<0 0059	U		<0 0073	U		<0 0034	U		<0 0057	U		<0.0024	U		<0.0053	U	
		VMP-10-5-012512	1/26/2012	<0.011	U		<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		<0 0043	U		<0 0072	U		0.00067	J		<0.0067	U	
		VMP-10-5-041212	4/12/2012	<0.012	J	U	<0 0059	U		<0 0043	J	U	<0.008	U		<0 0099	U		<0 0046	U		<0.019	U		<0.0032	U		<0.0072	U	
		VMP-10-5-071312	7/13/2012	<0.012	J	U	<0 0061	U		<0 0044	J	U	<0 0082	U		<0 01	U		<0 0047	U		<0 02	U		<0.0033	J	U	<0.0074	U	
		VMP-10-5-101612	10/16/2012	<0.019	U		<0 0095	U		<0.007	U		<0.013	U		<0.016	U		<0 0074	U		<0.031	U		0.018			<0.012	U	
	10 ft	VMP-10-10-090710	9/7/2010	0.04			<0 0083	U		<0 0061	U		<0.011	U		<0 0035	U		<0 0064	U		<0.011	U		0 0052			<0 01	U	
		VMP-10-10-111810	11/17/2010	<0.004	U		0.0012	J		<0 0059	U		<0.011	U		<0 0034	U		<0 0063	U		<0.011	U		0 0053			<0.0099	U	
		VMP-10-10-021111	2/11/2011	<0 0031	U		<0 0064	U		<0 0046	U		<0 0086	U		<0 0027	U		<0 0049	U		<0 0083	U		0 0034	J		<0.0078	U	
		VMP-10-10-040611	4/6/2011	0.0014	J		<0 0083	U		<0 0061	J	U	0.0024	J		<0.014	U		<0 0064	U		<0.011	U		0 0021	J		<0 01	J	U
		VMP-10-10-072911	7/29/2011	0.0088	J		<0 0087	U		<0 0064	U		<0.012	U		<0.014	U		<0 0067	U		0 0018	J		0 0019	J		<0.011	U	
		VMP-10-10-110411	11/4/2011	<0.011	J	U	<0 0056	U		<0 0041	J	U	<0 0076	U		<0 0094	U		<0 0044	U		<0 0074	U		<0.0031	U		<0.0069	U	
		VMP-10-10-110411-DUP	11/4/2011	<0.011	J	U	<0 0056	U		<0 0041	J	U	<0 0076	J	U	<0 0094	U		<0 0044	U		<0 0074	U		<0.0031	U		<0.0069	U	
		VMP-10-10-012512	1/26/2012	<0.011	U		<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		<0 0043	U		<0 0072	U		<0.003	U		<0.0067	U	
		VMP-10-10-012512-DUP	1/26/2012	<0.011	U		<0 0058	U		<0 0042	U		<0 0078	U		<0 0096	U		<0 0045	U		<0 0076	U		0 0029	J		<0.007	U	
		VMP-10-10-041112	4/11/2012	<0.012	U		<0.006	U		<0 0044	U		<0 0081	U		<0 01	U		<0 0047	U		0 0079	J		0 0069			<0.0073	U	
		VMP-10-10-071312	7/13/2012	<0.012	J	U	<0 0059	U		<0 0043	J	U	<0.008	U		<0 0099	U		<0 0046	U		<0.019	U		<0.0032	J	U	<0.0072	U	
		VMP-10-10-101612	10/16/2012	<0 02	U		<0 0099	U		<0 0073	U		<0.013	U		<0.017	U		<0 0077	U		<0.033	U		0 0058			<0.012	U	
	20 ft	VMP-10-20-090710	9/7/2010	0.0021	J		<0 0087	U		<0 0064	U		<0.012	U		<0 0036	U		<0 0067	U		<0.011	U		0 0035	J		<0.011	U	
		VMP-10-20-090710-DUP	9/7/2010	0.0034	J		<0 0081	U		<0 0059	U		<0.011	U		<0 0034	U		<0 0063	U		<0.011	U		0.002	J		<0.0099	U	
		VMP-10-20-111810	11/17/2010	<0 0076	U		<0.015	U		<0.011	U		<0.021	U		<0 0064	U		0 0017	J		<0 02	U		0 0025	J		<0.019	U	
		VMP-10-20-111810-Dup	11/17/2010	<0 0038	U		<0 0078	U		<0 0057	U		<0 01	U		<0 0032	U		0 0014	J		<0 01	U		0 0056			<0.0095	U	
		VMP-10-20-021111	2/11/2011	<0 0038	U		<0 0077	U		<0 0056	U		<0 01	U		<0 0032	U		<0.006	U		<0 01	U		0 0027	J		<0.0094	U	
		VMP-10-20-040611	4/6/2011	<0.018	J	U	<0 0092	U		<0 0068	J	U	<0.012	U		<0.016	U		<0 0072	U		<0.012	U		0 0034	J		<0.011	U	
		VMP-10-20-072911	7/29/2011	<0.017	U		<0 0086	U		<0 0063	U		<0.012	U		<0.014	U		<0 0067	U		<0.011	U		<0.0047	U		<0 01	U	
		VMP-10-20-110411	11/4/2011	<0.011	J	U	<0 0056	U		<0 0041	J	U	<0 0076	U		<0 0094	U		<0 0044	U		<0 0074	U		<0.0031	U		<0.0069	U	
		VMP-10-20-012612	1/26/2012	<0 01	U		<0 0053	U		<0 0039	U		<0 0072	U		<0 0089	U		<0 0041	U		<0 0069	U		0 0062			<0.0064	U	
		VMP-10-20-041212	4/12/2012	<0.012	J	U	<0 0059	U		<0 0043	J	U	<0.008	U		<0 0099	U		<0 0046	U		<0.019	U		<0.0032	U		<0.0072	U	
		VMP-10-20-071612	7/16/2012	<0.011	J	U	<0 0056	U		<0 0041	J	U	<0 0076	U		<0 0094	U		<0 0044	U		<0.018	U		<0.0031	J	U	<0.0069	U	
		VMP-10-20-101612	10/16/2012	0.0066	J		<0 01	U		<0 0073	U		<0.014	U		<0.017	U		<0 0078	U		<0.033	U		0 0016	J		<0.012	U	
	30 ft	VMP-10-30-041212	4/12/2012	<0.012	U		<0 0062	U		<0 0045	U		<0 0083	U		<0 01	U		<0 0048	U		<0 02	U		0.005			<0.0075	U	
		VMP-10-30-071612	7/16/2012	<0.011	J	U	<0 0054	U		<0.004	J	U	<0 0074	U		<0 0091	U		<0 0042	J	U	<0.018	U		<0.003	J	U	<0.0066	U	
		VMP-10-30-101612	10/16/2012	<0.019	U		<0 0094	U		<0 0069	U		<0.013	U		<0.016	U		<0 0073	U		<0.031	U		0.002	J		<0.012	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	0.0021	J		<0 0078	U		<0 0057	U		<0 01	U		<0 0032	U		0 0019	J		<0 01	U		0 0012	J		<0.0095	U	
		VMP-11-5-112210	11/22/2010	<0.004	J	U	<0 0081	U		<0 0059	U		<0.011	U		<0 0034	U		0 0039	J		<0.011	U		<0.0044	U		<0.0099	U	
		VMP-11-5-021511	2/15/2011	<0 0036	U		<0 0072	U		<0 0052	U		<0 0097	U		<0.003	U		0 0025	J		<0 0094	U		0 0089			<0.0088	U	
		VMP-11-5-040611	4/6/2011	0.0088	J		<0.068	U		<0 05	U		<0.092	U		<0.11	U		<0.053	U		0.055	J		0.082			<0.083	U	
		VMP-11-5-080711	8/7/2011	<0.046	U		<0.093	U		<0.068	U		<0.13	U		<0.16	U		<0.072	U		<0.12	U		<0.051	U		<0.11	U	
		VMP-11-5-111111	11/11/2011	<0.036	U		<0.018	U		<0.014	U		<0.025	U		<0.031	U		0.006	J		<0.024	U		0.14			<0.022	U	
		VMP-11-5-012612	1/26/2012	<0.011	U		<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		0.01			<0 0072	U		<0.003	U		<0.0067	U	
		VMP-11-5-041912	4/19/2012	<0.012	J	U	<0 0062	U		<0 0045	U		<0 0083	U		<0 01	U		<0 0048	U		<0 02	U		0 0013	J		<0.0075	U	
		VMP-11-5-071912	7/16/2012	<0.016	J	U	<0.008	U		<0 0058	J	U	<0.011	U		<0.013	U		<0 0062	J	U	<0.026	U		0 0032	J		<0.0098	U	
		VMP-11-5-101612	10/16/2012	<0.018	U		<0 0089	U		<0 0065	U		<0.012	U		<0.015	U		<0 0069	U		<0.029	U		<0.0049	U		<0.011	U	
	8 ft	VMP-11-8-090810	9/8/2010	<0 0049		U	<0 0081	U		<0 0059	U		<0.011	U		<0 0034	U		0 0014	J		<0.011	U		0.00085	J		<0.0099	U	
		VMP-11-8-112210	11/22/2010	<0.004	J	U	<0 0081	U		<0 0059	U		<0.011	U		<0 0034	U		<0 0063	U		<0.011	U		<0.0044	U		<0.0099	U	
		VMP-11-8-021111	2/11/2011	<0 0039	U		<0 0079	U		<0 0058	U		<0.011	U		<0 0033	U		0 0018	J		<0 01	U		0 0013	J		<0.0096	U	
		VMP-11-8-021111-DUP	2/11/2011	<0 0036	U		<0 0074	U		<0 0054	U		<0 01	U		<0 0031	U		0 0019	J		<0 0097	U		0.001	J		<0.009	U	
		VMP-11-8-040611	4/6/2011	<0.069	U		<0.035	U		<0.026	U		<0.047	U		<0.058	U		<0.027	U		<0.046	U		0.042			<0.043	U	
		VMP-11-8-040611-DUP	4/6/2011	0.0041	J		<0 03	U		<0.022	U		<0.041	U		<0.051	U		0 0029	J		<0 04	U		0.047			<0.037	U	
		VMP-11-8-080711	8/7/2011	<0.046	U		<0.093	U		<0.068	U		<0.13	U		<0.16	U		<0.072	U		<0.12	U		<0.051	U		<0.11	U	
		VMP-11-8-111411	11/14/2011	0.0037	J		<0 0055	U		<0.004	U		<0 0075	U		<0 0093	U		0 0026	J		<0 0073	U		0 0077			<0.0068	U	
		VMP-11-8-012612	1/26/2012	<0.011	U		<0 0054	U		<0 0039	U		<0 0073	U		<0.009	U		0 0094			<0 0071	U		<0.0029	U		<0.0066	U	
		VMP-11-8-041912	4/19/2012	<0.012	J	U	<0 0062	U		<0 0045	U		<0 0083	U		<0 01	U		<0 0048	U		<0 02	U		0.001	J		<0.0075	U	
		VMP-11-8-072012	7/20/2012	<0.012	U		<0 0062	U		<0 0045	U		<0 0083	U		<0 01	U		<0 0048	U		<0 02	U		<0.0034	U		<0.0075	U	
		VMP-11-8-101612	10/16/2012	<0.018	U		<0.009	U		<0 0066	U		<0.012	U		<0.015	U		<0.007	U		<0 03	U		0 0017	J		<0.011	U	
		VMP-11-8-101612-Dup	10/16/2012	<0.018	U		<0 0091	U		<0 0066	U		<0.012	U		<0.015	U		0 0042	J		<0 03	U		0 0021	J		<0.011	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0.1	U		<0.2	U		<0.15	U		<0 27	U		<0.085	U		<0.16	U		<0 27	U		0.068	J		<0 25	U	
		VMP-11-29-112210	11/22/2010	<1.4	U		<2.9	U		<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		<1.6	U		<3.5	U	
		VMP-11-29-112210-Dup	11/22/2010	<1	U		<2	U		<1.5	U		<2.7	U		<0 84	U		<1.6	U		<2.6	U		<1.1	U		<2.5	U	
		VMP-11-29-021411	2/14/2011	<0 0039	U		<0 0079	U		<0 0058	U		<0.011	U		<0 0033	U		0 0069			<0 01	U		0.032			<0.0096	U	
		VMP-11-29-040611	4/6/2011	0.0075	J		<0.059	U		<0.044	U		<0 08	U		<0.1	U		<0.046	U		<0.078	U		0.065			<0.073	U	
		VMP-11-29-082511	8/25/2011	<0.017	U		<0 0087	U		<0 0064	U		<0.012	U		<0.014	U		0.013			<0.011	U		<0.0048	U		<0.011	U	
		VMP-11-29-082511-Dup	8/25/2011	<0.017	U		<0 0087	U		<0 0064	U		<0.012	U		<0.014	U		0.013			<0.011	U		<0.0048	U		<0.011	U	
		VMP-11-29-111411	11/14/2011	<0.011	U		<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		0.014			<0 0072	U		0 0014	J		<0.0067	U	
		VMP-11-29-012612	1/26/2012	<0 01	U		<0 0053	U		<0 0039	U		<0 0072	U		<0 0089	U		0.024			<0 0069	U		<0.0029	U		<0.0064	U	
		VMP-11-29-042712	4/27/2012	<0.011	J	U	<0 0055	U		<0.004	J	U	<0 0074	U		<0 0092	U		0.019			<0.018	U		0 0029	J		<0.0067	U	
		VMP-11-29-072012	7/23/2012	0 009	J		<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		0.019			<0.018	U		0 0067			<0.0067	U	
		VMP-11-29-101612	10/16/2012	<0.018	U		<0 0093	U		<0 0068	U		<0.013	U		<0.016	U		0.08			<0 03	U		<0.0051	U		<0.011	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0.2	U		<0.41	U		<0.3	U		<0 56	U		<0 69	U		<0 32	U		<0 54	U		<0 22	U		<0.5	U	
		VMP-11-38-042312-Dup	4/23/2012	<0.71	U		<1.4	U		<1	U		<2	U		<2.4	U		<1.1	U		<1.9	U		<0.79	U		<1.8	U	
		VMP-11-38-072312	7/23/2012	<0 34	U		<0 68	U		<0.5	U		<0 92	U		<1.1	U		<0 53	U		<0.9	U		<0 37	U		<0 83	U	
		VMP-11-38-101612	10/16/2012	0 074			<0 0094	U		<0 0069	U		<0.013	U		<0.016	U		0.028			0 0075	J		0.005			<0.012	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				5300			1.5			420			57000						0.92									0.06		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<4.2	U		<8.5	U		<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		410			<10	U	
		VMP-12-5-120310	12/3/2010	<41	U		<84	U		<61	U		<110	U		<35	U		<65	U		<110	U		750			<100	U	
		VMP-12-5-021511	2/15/2011	<1.9	U		<3.8	U		<2.8	U		<5.2	U		<1.6	U		<3	U		<5	U		88			<4.7	U	
		VMP-12-5-041911	4/19/2011	<14	U		<28	U		<20	U		<38	U		<47	U		<22	U		<37	U		300			<34	U	
		VMP-12-5-080411	8/4/2011	<3.6	U		<7.3	U		<5.3	U		<9.8	U		<12	U		<5.6	U		<9.5	U		230			<8.9	U	
		VMP-12-5-111611	11/16/2011	0.0055	J		<0 0051	U		0.0018	J		<0 0069	U		<0 0086	U		<0.004	U		<0 0067	U		0.016			<0.0063	U	
		VMP-12-5-012412	1/24/2012	<0.028	U		<0.058	U		<0.042	U		<0.078	U		<0.096	U		<0.045	U		<0.076	U		0 95			<0 07	U	
		VMP-12-5-041912	4/19/2012	<0.011	J	U	<0 0058	U		<0 0042	U		<0 0078	U		<0 0096	U		<0 0045	U		0 0047	J		0.046			0 0016	J	
		VMP-12-5-072612	7/26/2012	<0.012	J	U	<0 0061	U		<0 0045	J	U	<0 0083	U		<0 01	U		0 0049			<0 02	U		0.006			<0.0075	U	
		VMP-12-5-072612-Dup	7/26/2012	<0.011	J	U	<0 0056	U		<0 0041	J	U	<0 0076	U		<0 0094	U		<0 0043	U		<0.018	U		<0.0031	U		<0.0068	U	
		VMP-12-5-102412	10/24/2012	<0.019	J	U	<0 0094	U		<0 0069	J	U	<0.013	U		<0.016	U		0 0014	J		<0.031	U		<0.0052	U		<0.012	U	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<5.4	U		<11	U		<7.9	U		<15	U		<4.6	U		<8.4	U		<14	U		580			<13	U	
		VMP-12-11.5-120310	12/3/2010	<4.6	U		<9.4	U		<6.9	U		<13	U		<3.9	U		<7.3	U		<12	U		340			<11	U	
		VMP-12-11.5-021511	2/15/2011	<4.2	U		<8.4	U		<6.2	U		<11	U		<3.5	U		<6.5	U		<11	U		450			<10	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<3.6	U		<7.3	U		<5.3	U		<9.8	U		<3	U		<5.6	U		<9.5	U		390			<8.9	U	
		VMP-12-11.5-041911	4/19/2011	<12	U		<25	U		<19	U		<34	U		<43	U		<20	U		<33	U		420			<31	U	
		VMP-12-11.5-080411	8/4/2011	<4.4	U		<8.9	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		160			<11	U	
		VMP-12-11.5-111611	11/16/2011	<0.14	U		<0.071	U		0 028	J		<0.096	U		<0.12	U		<0.055	U		<0.093	U		0 28			<0.086	U	
		VMP-12-11.5-012412	1/24/2012	<0 33	U		<0 66	U		<0.48	U		<0 89	U		<1.1	U		<0 51	U		<0 87	U		2.8			<0 81	U	
		VMP-12-11.5-041912	4/19/2012	<0 03	U		<0 06	U		<0.044	U		<0.081	U		<0.1	U		<0.047	U		<0.079	U		0 06			<0.073	U	
		VMP-12-11.5-082012	8/20/2012	<0.019	J	U	<0 0095	U		<0.007	J	U	<0.013	U		<0.016	U		0 0062	J		<0.031	U		<0.0052	U		<0.012	U	
		VMP-12-11.5-102612	10/26/2012	<0.018	U		<0 0091	U		<0 0066	U		<0.012	U		<0.015	U		<0.007	U		<0 03	U		0 0037	J		<0.011	U	
	25 ft	VMP-12-25-090310	9/3/2010	<6.8	U		<14	U		<10	U		<19	U		<5.8	U		<11	U		<18	U		650			<17	U	
		VMP-12-25-120310	12/3/2010	<0 34	U		<0 68	U		<0.5	U		<0 93	U		<0 29	U		<0 53	U		<0.9	U		18			<0 84	U	
		VMP-12-25-021511	2/15/2011	<8.3	U		<17	U		<12	U		<23	U		<7	U		<13	U		<22	U		410			<20	U	
		VMP-12-25-041911	4/19/2011	<14	U		<27	U		<20	U		<37	U		<46	U		<21	U		<36	U		430			<33	U	
		VMP-12-25-080411	8/4/2011	<8.6	U		<17	U		<13	U		<23	U		<29	U		<13	U		<23	U		320			<21	U	
		VMP-12-25-111611	11/16/2011	23	J		<20	U		4 8	J		<27	U		<33	U		<15	U		<26	U		320			<24	U	
		VMP-12-25-012412	1/24/2012	<3.7	U		<7.6	U		<5.5	U		<10	U		<13	U		<5.8	U		<9.9	U		460		J	<9.2	U	
		VMP-12-25-012412-DUP	1/24/2012	<27	U		<55	U		<40	U		<74	U		<92	U		<43	U		<72	U		410			<67	U	
		VMP-12-25-041912	4/19/2012	<2 8	U		<5.8	U		<4.2	U		<7.8	U		<9.6	U		<4.5	U		<7.6	U		54			<7	U	
		VMP-12-25-072712	7/27/2012	<3.1	U		<6.3	U		<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		59			<7.7	U	
		VMP-12-25-072712-Dup	7/27/2012	<3.1	U		<6.3	U		<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		73			<7.7	U	
		VMP-12-25-102512	10/25/2012	<1.3	U		<2.7	U		<2	U		<3.7	U		<4.6	U		<2.1	U		<3.6	U		3.1			<3.3	U	
	39 ft	VMP-12-39-041911	4/19/2011	<13	U		<26	U		<19	U		<36	U		<44	U		<20	U		<35	U		570			<32	U	
		VMP-12-39-012412	1/24/2012	<27	U		<55	U		<40	U		<74	U		<92	U		<43	U		<72	U		560			<67	U	
		VMP-12-39-041912	4/19/2012	<14	U		<28	U		<20	U		<37	U		<46	U		<21	U		<36	U		260			<34	U	
		VMP-12-39-072612	7/26/2012	1.1	J		<13	U		<9.2	U		<17	U		<21	U		<9.8	U		<17	U		110			<15	U	
		VMP-12-39-102412	10/24/2012	5 3	J		<33	U		<24	U		<45	U		<56	U		<26	U		<44	U		66			<41	U	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	0 018	J		<0.055	U		<0 04	U		<0.075	U		<0.023	U		<0.043	U		<0.073	U		0.014	J		<0.068	U	
		VMP-13-5-120110	12/1/2010	<0 0036	U		<0 0073	U		<0 0054	U		<0 0099	U		<0 0031	U		<0 0057	U		<0 0096	U		0.031			<0.009	U	
		VMP-13-5-021811	2/18/2011	<0 0043	U		<0 0087	U		<0 0064	U		<0.012	U		<0 0036	U		<0 0067	U		<0.011	U		0.003	J		<0.011	U	
		VMP-13-5-040511	4/5/2011	<0.034	U		<0.017	U		<0.013	U		<0.024	U		<0.029	U		<0.013	U		<0.023	U		0 0021	J		<0.021	U	
		VMP-13-5-080911	8/9/2011	<0.037	U		<0.019	U		0.0046	J		<0.025	U		<0.031	U		<0.014	U		<0.024	U		0 0068	J		<0.023	U	
		VMP-13-5-080911-DUP	8/9/2011	<0.033	J	U	<0.017	U		0.0044	J		<0.022	U		<0.028	U		<0.013	U		<0.022	U		0 0048	J		<0 02	U	
		VMP-13-5-111411	11/14/2011	0.0018	J		<0 0058	U		<0 0042	U		<0 0078	U		<0 0097	U		<0 0045	U		<0 0076	U		<0 0032	U		<0.0071	U	
		VMP-13-5-012712	1/27/2012	<0.024	U		<0.049	U		<0.036	U		<0.066	U		<0.082	U		<0.038	U		<0.064	U		0.081		J	<0 06	U	
		VMP-13-5-042012	4/20/2012	0 002	J		<0 0056	U		<0 0041	U		<0 0076	U		<0 0094	U		0 0022	J		<0.018	U		<0 0031	U		<0.0069	U	
		VMP-13-5-071912	7/19/2012	<0.012	U		<0 0059	U		0.0011	J		<0.008	U		<0 0099	U		0 0056			<0.019	J	U	0 0028	J		<0 0072	J	U
		VMP-13-5-071912-Dup	7/19/2012	<0.012	U		<0 0059	U		0.0011	J		<0.008	U		<0 0099	U		0 006			<0.019	U		0 0025	J		<0 0072	U	
		VMP-13-5-100912	10/9/2012	<0.018	U		<0 0091	U		<0 0066	U		<0.012	U		<0.015	U		<0.007	U		<0 03	U		0 0014	J		<0.011	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	0.0056	J		<0 02	U		<0.015	U		<0.028	U		<0 0086	U		<0.016	U		<0.027	U		0.014			<0.025	U	
		VMP 13-10 5-091310-Dup	9/13/2010	0.02			<0 02	U		<0.015	U		<0.027	U		<0 0084	U		<0.016	U		<0.026	U		0.015			<0.024	U	
		VMP-13-10.5-120110	12/1/2010	<0.004	U		<0 0081	U		<0.006	U		<0.011	U		<0 0034	U		0 0012	J		<0.011	U		0 0029	J		<0 01	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0 0042	U		<0 0085	U		<0 0062	U		<0.012	U		<0 0036	U		0.00098	J		<0.011	U		0 0048			<0 01	U	
		VMP-13-10.5-021811	2/18/2011	<1.7	U		<3.4	U		<2.5	U		<4.6	U		<1.4	U		<2.6	U		<4.4	U		0.78	J		<4.1	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<1 6	U		<3.2	U		<2.4	U		<4.4	U		<1.4	U		<2.5	U		<4.2	U		0 9	J		<4	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0.017	U		<0 0087	U		<0 0064	U		<0.012	J	U	<0.014	U		<0 0067	U		<0.011	U		0 0039	J		<0.011	J	U
		VMP-13-10.5-080911	8/9/2011	<0.094	U		<0.19	U		<0.14	U		<0 26	U		<0 32	U		<0.15	U		<0 25	U		<0.1	U		<0 23	U	
		VMP-13-10.5-111411	11/14/2011	<0.011	U		<0 0055	U		<0.004	U		<0 0075	U		<0 0093	U		<0 0043	U		<0 0073	U		<0.003	U		<0.0068	U	
		VMP-13-10.5-012712	1/26/2012	<0 03	U		<0.015	U		<0.011	U		<0.021	U		<0.026	U		<0.012	U		<0 02	U		0.029			<0.019	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.044	U		<0.022	U		<0.016	U		<0 03	U		<0.037	U		<0.017	U		<0.029	U		0.043			<0.027	U	
		VMP-13-10.5-042012	4/20/2012	<0.011	J	U	<0 0055	U		<0.004	U		<0 0074	U		<0 0092	U		0 0016	J		<0.018	U		0 0013	J		0 0015	J	
		VMP-13-10.5-071912	7/19/2012	0.0055	J		<0 0059	U		0 00092	J		<0.008	U		<0 0099	U		0 0032	J		<0.019	U		0 0048			<0.0072	J	U
		VMP-13-10.5-100912	10/9/2012	<0.015	U		<0 0078	U		<0 0057	U		<0 01	U		<0.013	U		<0.006	U		<0.026	U		0.003	J		<0.0095	U	
		VMP-13-10.5-100912-Dup	10/9/2012	<0.018	U		<0 0093	U		<0 0068	U		<0.013	U		<0.016	U		<0 0072	U		<0 03	U		<0 0051	U		<0.011	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<7.5	U		<15	U		<11	U		<21	U		<6.4	U		<12	U		<20	U		2 5	J		<18	U	
		VMP-13-21.5-120110	12/1/2010	<15	U		<30	U		<22	U		<40	U		<12	U		<23	U		<39	U		<16	U		<36	U	
		VMP-13-21.5-021811	2/18/2011	0.36	J		<4.4	U		<3.2	U		<6	U		<1.8	U		<3.4	U		<5.8	U		0.7	J		<5.4	U	
		VMP-13-21.5-040511	4/5/2011	<3.1	U		<6.4	U		<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		1	J		<7.8	U	
		VMP-13-21.5-080911	8/9/2011	<0 39	U		<0.79	U		<0 58	U		<1.1	U		<1.3	U		<0 62	U		<1	U		<0.43	U		<0 97	U	
		VMP-13-21.5-111411	11/14/2011	3 5	J		<3.6	U		<2.6	U		<4.9	U		<6.1	U		<2.8	U		<4.7	U		0 67	J		<4.4	U	
		VMP-13-21.5-111411-DUP	11/14/2011	3.4	J		<3.6	U		<2.6	U		<4.9	U		<6.1	U		<2.8	U		<4.7	U		0 95	J		<4.4	U	
		VMP-13-21.5-012712	1/27/2012	<0.42	U		<0 84	U		<0 62	U		<1.1	U		<1.4	U		<0 65	U		<1.1	U		0 9		J	<1	U	
		VMP-13-21.5-042012	4/20/2012	0.15	J		<0.094	U		0 037	J		<0.13	U		<0.16	U		<0.073	U		<0 31	U		0.18			<0.11	U	
		VMP-13-21.5-071912	7/19/2012	0.0047	J		<0 0059	U		0.0013	J		<0.008	U		<0 0099	U		<0 0046	U		<0.019	U		0 0053			<0.0072	J	U
		VMP-13-21.5-100912	10/9/2012	0.0047	J		<0 0095	U		<0.007	U		<0.013	U		<0.016	U		<0 0074	U		<0.031	U		0 0028	J		<0.012	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<67	U		<140	U		<99	U		<180	U		<57	U		<100	U		<180	U		<74	U		<160	U	
		VMP-13-29.5-040511	4/5/2011	<44	U		<88	U		<64	U		<120	U		<150	U		<68	U		<120	U		<48	U		<110	U	
		VMP-13-29.5-013012	1/30/2012	<1.3	U		<2.7	U		<2	U		<3.6	U		<4.5	U		<2.1	U		<3.5	U		4		J	<3.3	U	
		VMP-13-29.5-042012	4/20/2012	2.4	J		<3.5	U		1.1	J		<4.8	U		<5.9	U		<2.7	U		<12	U		2 6			<4.3	U	
		VMP-13-29.5-071912	7/19/2012	<5	U		<10	U		<7.4	U		<14	U		<17	U		<7.9	U		<13	U		<5.5	U		<12	U	
		VMP-13-29.5-100912	10/9/2012	<4.7	U		1 5	J		<7	U		<13	U		<16	U		<7.4	U		<12	U		2 2	J		<12	U	

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				5300			1.5			420			57000						0.92									0.06		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0.19	U		<0 39	U		<0 28	U		<0 53	U		<0.16	U		<0.3	U		<0 51	U		0 85			<0.48	U	
		VMP-14-5-120110	12/1/2010	<0 0037	U		<0 0076	U		<0 0055	U		<0 01	U		<0 0032	U		0.00067	J		<0 0099	U		0.001	J		<0.0092	U	
		VMP-14-5-021711	2/17/2011	<0 0041	J	U	<0 0083	U		<0 0061	U		<0.011	U		<0 0035	U		<0 0064	U		<0.011	U		0.069			<0 01	U	
		VMP-14-5-040511	4/5/2011	<0.017	J	U	<0 0085	U		<0 0062	U		<0.011	U		<0.014	U		<0 0066	U		<0.011	U		0 0013	J		<0 01	U	
		VMP-14-5-080811	8/8/2011	<4.4	U		<8.8	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		91			<11	U	
		VMP-14-5-111411	11/14/2011	0.0088	J		<0.022	U		<0.016	U		<0 03	U		<0.037	U		<0.017	U		<0.029	U		<0.012	U		<0.027	U	
		VMP-14-5-042012	4/20/2012	<0.011	J	U	<0 0054	U		<0 0039	J	U	<0 0073	U		<0.009	U		<0 0042	U		<0.018	U		0.008			<0.0066	U	
		VMP-14-5-072312	7/23/2012	<0.013	U		<0 0065	U		<0 0047	U		<0 0088	U		<0.011	U		0 0013	J		0 0039	J		<0.0035	U		<0.0079	U	
		VMP-14-5-101012	10/10/2012	<0.018	U		<0 0091	U		<0 0066	U		<0.012	U		<0.015	U		<0.007	U		<0 03	U		<0.005	U		<0.011	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<3	U		<6	U		<4.4	U		<8.1	U		<2.5	U		<4.7	U		<7.9	U		140			<7.3	U	
		VMP-14-11.5-120110	12/2/2010	<0 26	U		<0 53	U		<0 39	U		<0.72	U		<0 22	U		<0.41	U		<0 69	U		3 6			<0 64	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0 24	U		<0.48	U		<0 35	U		<0 65	U		<0.2	U		<0 37	U		<0 63	U		3.7			<0 58	U	
		VMP-14-11.5-021711	2/17/2011	0 052	J		<0.17	U		<0.13	U		<0 24	U		<0.073	U		<0.13	U		<0 23	U		2.7			<0 21	U	
		VMP-14-11.5-021711-DUP	2/17/2011	0 041	J		<0.17	U		<0.13	U		<0 24	U		<0.073	U		<0.13	U		<0 23	U		3			<0 21	U	
		VMP-14-11.5-040511	4/5/2011	<0.056	J	U	<0.028	U		<0.021	U		<0.038	U		0 037	J		<0.022	U		<0.037	U		1 2			<0.034	U	
		VMP-14-11.5-080811	8/8/2011	<0.43	U		<0 87	U		<0 64	U		<1.2	U		0.24	J		<0 68	U		<1.1	U		1 6			<1.1	U	
		VMP-14-11.5-111511	11/15/2011	1.7	J		<1.4	U		<0 99	U		<1.8	U		<2.3	U		<1	U		<1.8	U		12			<1.6	U	
		VMP-14-11.5-012612	1/26/2012	<2.7	U		<5.5	U		<4	U		<7.5	U		<9.3	U		<4.3	U		<7.3	U		22			<6.8	U	
		VMP-14-11.5-042312	4/23/2012	<0.011	J	U	<0 0058	U		<0 0042	J	U	<0 0078	U		<0 0096	U		<0 0045	U		<0.019	U		0 0056			<0.007	U	
		VMP-14-11.5-042312-Dup	4/23/2012	<0.011	J	U	<0 0058	U		<0 0042	J	U	<0 0078	U		<0 0096	U		<0 0045	U		<0.019	U		0 0053			<0.007	U	
		VMP-14-11.5-072512	7/25/2012	<1	U		<2	U		<1.5	U		<2.7	U		<3.4	U		<1.6	U		<2.6	U		1 8			<2.5	U	
		VMP-14-11.5-101012	10/10/2012	0 008	J		<0 0087	U		<0 0064	U		<0.012	U		<0.014	U		<0 0067	U		<0.028	U		0 0029	J		<0.011	U	
	20 ft	VMP 14-20-091010	9/10/2010	<45	U		<92	U		<67	U		<120	U		<38	U		<71	U		<120	U		250			<110	U	
		VMP 14-20-091010-Dup	9/10/2010	<47	U		<95	U		<70	U		<130	U		<40	U		<74	U		<120	U		240			<120	U	
		VMP-14-20-120110	12/2/2010	<120	U		<250	U		<180	U		<330	U		<100	U		<190	U		<320	U		310			<300	U	
		VMP-14-20-021811	2/18/2011	<69	U		<140	U		<100	U		<190	U		<58	U		<110	U		<180	U		160			<170	U	
		VMP-14-20-040511	4/5/2011	<30	U		<60	U		<44	U		<81	U		<100	U		<46	U		<78	U		150			<73	U	
		VMP-14-20-080811	8/8/2011	<11	U		<22	U		<16	U		<29	U		<36	U		<17	U		<28	U		<12	U		<26	U	
		VMP-14-20-111511	11/15/2011	<220	U		<110	U		<82	U		<150	U		<190	U		<87	U		<150	U		240			<140	U	
		VMP-14-20-012612	1/26/2012	1 5	J	J	<11	U		<8	U		<15	U		<18	U		<8.5	U		<14	U		230		J	<13	U	
		VMP-14-20-042312	4/23/2012	<3	U		<6	U		<4.4	U		<8.1	U		<10	U		<4.7	U		<7.9	U		240			<7.3	U	
		VMP-14-20-072512	7/25/2012	<4.7	U		<9.6	U		<7	U		<13	U		<16	U		<7.4	U		<12	U		180			<12	U	
		VMP-14-20-101612	10/16/2012	<22	U		<44	U		<32	U		<60	U		<74	U		<34	U		<58	U		150			<54	U	
	29 ft	VMP-14-29-021811	2/18/2011	<100	U		<200	U		<150	U		<270	U		<85	U		<160	U		<260	U		180			<250	U	
		VMP-14-29-040511	4/5/2011	<86	U		<170	U		<130	U		<240	U		<290	U		<130	U		<230	U		250			<210	U	
		VMP-14-29-012612	1/26/2012	<98	U		<200	U		<140	U		<270	U		<330	U		<150	U		<260	U		250			<240	U	
		VMP-14-29-042312	4/23/2012	<35	U		<70	U		<52	U		<95	U		<120	U		<55	U		<92	U		220			<86	U	
		VMP-14-29-072512	7/25/2012	<36	U		<74	U		<54	U		<100	U		<120	U		<57	U		<97	U		210			<90	U	
		VMP-14-29-101612	10/16/2012	<55	U		<110	U		<81	U		<150	U		<180	U		<86	U		<140	U		140			<140	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	<0 0039	J	U	<0 0079	U		<0 0058	U		<0.011	U		<0 0033	U		0 0013	J		<0 01	U		0 0048			<0 0097	U	
		VMP-15-5-113010	11/30/2010	<0.093	U		<0.19	U		<0.14	U		<0 25	U		0.22			<0.15	U		<0 25	UJ	UJ	8 6			<0 23	U	
		VMP-15-5-021611	2/16/2011	0.11			<0.18	U		<0.13	U		<0 24	U		<0.074	U		<0.14	U		<0 23	U		0 29			<0 22	U	
		VMP-15-5-042011	4/20/2011	<0 2	U		<0.42	U		<0.3	U		<0 56	U		<0.7	U		<0 32	U		<0 54	U		3 2			<0 51	U	
		VMP-15-5-080811	8/8/2011	0.0042	J		<0 0093	U		<0 0068	J	U	<0.013	U		<0.016	U		0 0023	J		<0.012	U		<0 0051	U		<0.011	J	U
		VMP-15-5-111511	11/15/2011	<0.021	U		<0 01	U		0.0083			<0.014	U		<0.018	U		<0 0081	U		<0.014	U		0.031			<0.013	U	
		VMP-15-5-020112	2/1/2012	<0.027	U		<0.054	U		<0.039	U		<0.073	U		<0 09	U		<0.042	U		<0.071	U		<0.029	U		<0.066	U	
		VMP-15-5-042412	4/24/2012	<0.027	U		<0.055	U		<0 04	U		<0.074	U		<0.092	U		<0.043	U		<0.072	U		<0 03	U		<0.067	U	
		VMP-15-5-072512	7/25/2012	0 018		J	0.0014	J		<0 0045		U	<0 0084	U		<0 01	U		0 025			0.017	J		0.00085	J		<0 0076	U	
		VMP-15-5-102512	10/25/2012	<0.018	J	U	<0 0093	U		<0 0068	J	U	<0.013	U		<0.016	U		0 002	J		<0.031	U		0 0018	J		<0.011	U	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<0.43	U		<0 86	U		<0 63	U		<1.2	U		<0 36	U		<0 67	U		<1.1	U		4			<1	U	
		VMP-15-21.5-113010	11/30/2010	<0 5	U		<1	U		<0.74	U		<1.4	U		<0.42	U		<0.78	U		<1.3	UJ	UJ	6			<1.2	U	
		VMP-15-21.5-021611	2/16/2011	<0 35	U		<0.7	U		<0 52	U		<0 95	U		<0.3	U		<0 55	U		<0 92	U		2.4			<0 86	U	
		VMP-15-21.5-042011	4/20/2011	<0 55	U		<1.1	U		<0 81	U		<1.5	U		<1.8	U		<0 86	U		<1.4	U		6			<1.4	U	
		VMP-15-21.5-080811	8/8/2011	<0.44	U		<0 89	U		<0 65	U		<1.2	U		<1.5	U		<0 69	U		<1.2	U		<0.48	U		<1.1	U	
		VMP-15-21.5-111511	11/15/2011	<1.4	U		<0.71	U		<0 52	U		<0 96	U		<1.2	U		<0 55	U		<0 93	U		2 3			<0 86	U	
		VMP-15-21.5-020112	2/1/2012	0 091	J	J	<0 53	U		<0 39	U		<0.72	U		<0 89	U		<0.41	U		<0 69	U		<0 29	U		<0 64	U	
		VMP-15-21.5-042412	4/24/2012	0 041	J		<0 23	U		<0.17	U		<0 31	U		<0 39	U		<0.18	U		<0.3	U		<0.12	U		<0 28	U	
		VMP-15-21.5-072512	7/25/2012	<0.41	U		<0 83	U		<0 61	U		<1.1	U		<1.4	U		<0 65	U		<1.1	U		0 53			<1	U	
		VMP-15-21.5-102512	10/25/2012	<0 67	U		<1.4	U		<1	U		<1.8	U		<2.3	U		<1	U		<1.8	U		0 25	J		<1.7	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<0 69	U		<1.4	U		<1	U		<1.9	U		<2.4	U		<1.1	U		<1.8	U		0.16	J		<1.7	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	<0.004	J	U	<0 0081	U		<0 0059	U		<0.011	U		<0 0034	U		0 0023	J		<0.011	U		0.084			<0.0099	U	
		VMP-15-25.5-021611	2/16/2011	0 028	J		<0.11	U		<0.079	U		<0.15	U		<0.045	U		<0.084	U		<0.14	U		0.45			<0.13	U	
		VMP-15-25.5-042011	4/20/2011	<0.044	U		<0.089	U		<0.065	U		<0.12	U		<0.15	U		<0.069	U		<0.12	U		0.062			<0.11	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.041	U		<0.083	U		<0.061	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		0.1			<0.1	U	
		VMP-15-25.5-080811	8/8/2011	<0.044	U		<0.089	U		<0.065	U		<0.12	U		<0.15	U		0.34			<0.12	U		<0.048	U		<0.11	U	
		VMP-15-25.5-111511	11/15/2011	<0.054	U		<0.027	U		0 012	J		<0.037	U		<0.046	U		<0.021	U		<0.036	U		0.12			<0.033	U	
		VMP-15-25.5-073112	7/31/2012	<0.028	U		<0.058	U		<0.042	U		<0.078	U		<0.096	U		<0.045	U		<0.076	U		0 04			<0 07	U	
		VMP-15-25.5-102512	10/25/2012	<0.018	U		<0 0093	U		<0 0068	U		<0.013	U		<0.016	U		<0 0072	U		<0.031	U		0 02			<0.011	U	
	29 ft	VMP-15-29-073112	7/31/2012	<0.12	U		<0 25	U		<0.18	U		<0 33	U		<0.41	U		<0.19	U		<0 32	U		1		J	<0.3	U	
		VMP-15-29-102512	10/25/2012	<0.038	U		<0.019	U		<0.014	U		<0.026	U		<0.033	U		<0.015	U		<0.064	U		0.083			<0.024	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				5300			1.5			420			57000						0.92									0.06		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<7.4	U		<15	U		<11	U		<20	U		<6.3	U		<12	U		<20	U		160			<18	U	
		VMP-16-5-112910	11/29/2010	<3.4	U		<6.8	U		<5	U		<9.3	U		2.4	J	J	<5.3	U		<9	UJ	UJ	150		J	<8.4	U	
		VMP-16-5-021511	2/15/2011	<2	U		<4.2	U		<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		99		J	<5.1	U	
		VMP-16-5-042211	4/22/2011	<2.7	U		<5.5	U		<4	U		<7.5	U		<9.3	U		<4.3	U		<7.3	U		100			<6.8	U	
		VMP-16-5-080511	8/5/2011	<0 88	U		<1.8	U		<1.3	U		<2.4	U		<3	U		<1.4	U		<2.3	U		22			<2.2	U	
		VMP-16-5-042512	4/25/2012	<3	U		<6	U		<4.4	U		<8.1	U		<10	U		<4.7	U		<7.9	U		67			<7.3	U	
		VMP-16-5-073012	7/30/2012	<2.8	U		<5.6	U		<4.1	U		<7.6	U		<9.4	U		<4.4	U		<7.4	U		77		J	<6.9	U	
		VMP-16-5-102512	10/25/2012	<2.2	U		<4.4	U		<3.2	U		<6	U		<7.4	U		<3.4	U		<5.8	U		4 9			<5.4	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	<7.7	U		<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		150			<19	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<7.7	U		<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		140			<19	U	
		VMP-16-13.5-112910	11/29/2010	<22	U		<44	U		<32	U		<60	U		<18	U		<34	U		<58	UJ	UJ	180			<54	U	
		VMP-16-13.5-021611	2/16/2011	<4.2	U		<8.5	U		<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		78			<10	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<4.1	U		<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		84			<10	U	
		VMP-16-13.5-042211	4/22/2011	<4.4	U		<8.9	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		120			<11	U	
		VMP-16-13.5-080511	8/5/2011	<0.43	U	UJ	<0 87	U	UJ	<0 64	U	UJ	<1.2	U	UJ	<1.4	U	UJ	<0 67	U	UJ	<1.1	U	UJ	6.4		J	<1.1	U	UJ
		VMP-16-13.5-042512	4/25/2012	<0.47	U		<0 96	U		<0.7	U		<1.3	U		<1.6	U		<0.74	U		<1.2	U		150		J	<1.2	U	
		VMP-16-13.5-073012	7/30/2012	2.4	J		<29	U		<21	U		<39	U		<48	U		<22	U		<38	U		170			<35	U	
		VMP-16-13.5-102512	10/25/2012	14	J		<89	U		<65	U		<120	U		<150	U		<69	U		<120	U		140			<110	U	
	19 ft	VMP-16-19-090210	9/2/2010	<7.7	U		<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		190			<19	U	
		VMP-16-19-112910	11/29/2010	<17	U		<34	U		<25	U		<46	U		<14	U		<26	U		<45	UJ	UJ	170			<41	U	
		VMP-16-19-021611	2/16/2011	<4	U		<8.1	U		<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		80			<9.9	U	
		VMP-16-19-042711	4/27/2011	<4.1	U		<8.3	U		<6.1	U		<11	U		<14	U		<6.4	U		<11	U		64			<10	U	
		VMP-16-19-042711-DUP	4/27/2011	<4	U		<8.1	U		<5.9	U		<11	U		<14	U		<6.3	U		<11	U		64			<9.9	U	
		VMP-16-19-042512	4/25/2012	<11	U		<22	U		<16	U		<30	U		<37	U		<17	U		<29	U		160			<27	U	
		VMP-16-19-073012	7/30/2012	1 5	J		<20	U		<14	U		<27	U		<33	U		<15	U		<26	U		150			<24	U	
		VMP-16-19-102512	10/25/2012	14	J		<83	U		<61	U		<110	U		<140	U		<64	U		<110	U		170			<100	U	
	31 ft	VMP-16-31-090310	9/3/2010	0.0036	J		<0 0091	U		<0 0066	U		<0.012	U		<0 0038	U		<0.007	U		<0.012	U		0.049			<0.011	U	
		VMP-16-31-112910	11/29/2010	<17	U		<34	U		<25	U		<46	U		<14	U		<27	U		<45	UJ	UJ	170			<42	U	
		VMP-16-31-042512	4/25/2012	<13	U		<27	U		<20	U		<36	U		<45	U		<21	U		<35	U		210			<33	U	
		VMP-16-31-073012	7/30/2012	3 9	J		<22	U		<16	U		<30	U		<37	U		<17	U		<29	U		200			<27	U	
		VMP-16-31-102512	10/25/2012	7 8	J		<100	U		<76	U		<140	U		<170	U		<80	U		<140	U		170			<130	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.004	U		<0.009	U		<0.006	U		<0.012	U		<0.003	U		<0.007	U		<0.012	U		0 36			<0.011	U	
		VMP-17-5-DUP	6/21/2010	<0.004	J	U	<0.009	U		<0.006	U		<0.013	U		<0.004	U		<0.007	U		<0.012	U		0 32			<0.012	U	
		VMP-17-5-090110	9/1/2010	<0 0042	J	U	<0 0085	U		<0 0062	J	U	<0.011	U		<0 0035	U		<0 0066	U		0 0045	J		0 02			<0 01	U	
		VMP-17-5-112210	11/22/2010	<0 0042	J	U	<0 0085	U		<0 0062	U		<0.011	U		<0 0035	U		<0 0066	U		0 0035	J		<0 0046	U		<0 01	U	
		VMP-17-5-020711	2/7/2011	<0 0039	U		<0 0079	U		<0 0058	U		<0.011	U		<0 0033	U		<0 0062	U		<0 01	U		0.029			<0.0097	U	
		VMP-17-5-040611	4/6/2011	0.0058	J		<0.032	U		<0.023	U		<0.043	U		<0.053	U		<0.025	U		<0.042	U		0.034			<0.039	U	
		VMP-17-5-080111	8/1/2011	<0 24	U		<0.12	U		<0.089	U		<0.16	U		<0.2	U		<0.094	U		<0.16	U		0.054	J		<0.15	U	
		VMP-17-5-110711	11/7/2011	<0.011	U		<0 0054	U		<0 0039	U		<0 0073	U		<0.009	U		<0 0042	U		<0 0071	U		<0 0029	U		<0.0066	U	
		VMP-17-5-012612	1/26/2012	<0.011	U		<0 0056	U		<0 0041	U		<0 0076	U		<0 0094	U		<0 0044	U		<0 0074	U		<0.0031	U		<0.0069	U	
		VMP-17-5-041112	4/11/2012	<0.011	U		<0 0058	U		<0 0042	U		<0 0078	U		<0 0096	U		<0 0045	U		<0.019	U		0 0019	J		<0.007	U	
		VMP-17-5-071112	7/11/2012	<0.012	U		<0 0062	U		<0 0045	U		<0 0083	U		<0 01	U		<0 0048	U		<0 02	U		0.004			<0.0075	U	
		VMP-17-5-100912	10/9/2012	<0.019	U		<0 0095	U		<0.007	U		<0.013	U		<0.016	U		<0 0074	U		<0.031	U		<0.0052	U		<0.012	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	0.0047	J		<0.076	U		1			<0.1	U		<0.13	U		0.048	J		<0.1	U		6			<0.093	U	
		VMP-25-5-040811	4/8/2011	0 019	J		<0.035	U		0.0043	J		<0.047	U		<0.058	U		<0.027	U		<0.045	U		0.12			<0.042	U	
		VMP-25-5-080911	8/9/2011	0.0095	J		<0 0073	U		<0 0054	J	U	<0 0099	U		<0.012	U		0 0021	J		<0 0096	U		0.039			<0.009	J	U
		VMP-25-5-111711	11/17/2011	0.0023	J		<0 0053	U		<0 0039	U		<0 0072	U		<0 0089	U		0 0017	J		<0 0069	U		<0.0029	U		<0.0064	U	
		VMP-25-5-013112	1/31/2012	0 006	J		<0.038	U		0.0072	J		<0.052	U		<0.064	U		<0 03	U		<0 05	U		0 25			<0.047	U	
		VMP-25-5-042512	4/25/2012	<0.012	J	U	<0.006	U		<0 0044	J	U	<0 0081	U		<0 01	U		0 0036	J		<0 02	U		0.00068	J		<0.0073	U	
		VMP-25-5-072612	7/26/2012	<0.041	U		<0.021	U		0.0087	J		<0.028	U		<0.035	U		0.02			<0.068	U		0.48			<0.025	U	
		VMP-25-5-102612	10/26/2012	<0.017	U		<0 0085	U		<0 0062	U		<0.011	U		<0.014	U		0.004	J		<0.028	U		<0.0046	U		<0 01	U	
	21 ft	VMP-25-21-031511	3/15/2011	6 3	J		<15	U		29		J	<20	U		3.7	J		<12	U		<20	U		1400		J	<18	U	
		VMP-25-21-031511-DUP	3/15/2011	9	J		<19	U		44		J	<26	U		<32	U		<15	U		<25	U		2200		J	<23	U	
		VMP-25-21-040811	4/8/2011	61	J		<160	U		<120	U		<210	U		<260	U		<120	U		<210	U		1800			<190	U	
		VMP-25-21-040811-DUP	4/8/2011	57	J		<160	U		<120	U		<220	U		<270	U		<120	U		<210	U		1700			<200	U	
		VMP-25-21-080911	8/9/2011	<26	U		<52	U		<38	U		<70	U		<87	U		<40	U		<68	U		<28	U		<63	U	
		VMP-25-21-111711	11/17/2011	<140	U		<71	U		<52	U		<96	U		<120	U		9 8	J		<93	U		860			<86	U	
		VMP-25-21-111711-DUP	11/17/2011	<210	U		<100	U		<76	U		<140	U		<180	U		<81	U		<140	U		800			<130	U	
		VMP-25-21-013112	1/31/2012	<18	U		<37	U		<27	U		<50	U		<62	U		<28	U		<48	U		1400			<45	U	
		VMP-25-21-013112-DUP	2/1/2012	<17	U		<34	U		<25	U		<46	U		<58	U		<27	U		<45	U		1600			<42	U	
		VMP-25-21-042512	4/25/2012	<12	U		<23	U		<17	U		<32	U		<39	U		<18	U		62			1400			<29	U	
		VMP-25-21-072612	7/26/2012	3	J		<40	U		<29	U		<54	U		<66	U		<31	U		<52	U		1400			<48	U	
		VMP-25-21-102612	10/26/2012	<120	U		<240	U		<170	U		<320	U		<400	U		<180	U		<310	U		1400			<290	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	0.39			<0.067	U		<0.049	U		<0 09	U		<0.11	U		<0.052	U		<0 22	U		<0.036	U		<0.081	U	
		VMP-29-10-100812	10/8/2012	0.15	J		<0.12	U		<0.086	U		<0.16	U		<0.2	U		<0.092	U		<0 39	U		<0.065	U		<0.14	U	
	20 ft	VMP-29-20-073012	7/30/2012	0.83			<0.79	U		<0 58	U		<1.1	U		<1.3	U		<0 61	U		<1	U		<0.43	U		<0 96	U	
		VMP-29-20-073012-Dup	7/30/2012	0.74			<0.74	U		<0 54	U		<1	U		<1.2	U		<0 57	U		<0 97	U		<0.4	U		<0.9	U	
		VMP-29-20-100812	10/8/2012	0.23	J		<0.12	U		<0.086	U		<0.16	U		<0.2	U		<0.092	U		<0 39	U		<0.065	U		<0.14	U	
	30 ft	VMP-29-30-073012	7/30/2012	0.32			<0.13	U		<0.095	U		<0.18	U		<0 22	U		0.02	J		<0.17	U		<0.071	U		<0.16	U	
		VMP-29-30-100812	10/8/2012	1 5			<0 58	U		<0.42	U		<0.79	U		<0 98	U		<0.45	U		<1.9	U		<0 32	U		<0.71	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane		
				5300			1.5			420			57000						0.92									0.06		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	0 2			<0 24	U		<0.17	U		<0 32	U		<0 39	U		<0.18	U		<0 31	U		<0.13	U		<0 29	U	
		VMP-30-10-100812	10/8/2012	0.02			<0 0089	U		<0 0065	U		<0.012	U		<0.015	U		<0 0069	U		<0.029	U		0 0013	J		<0.011	U	
	20 ft	VMP-30-20-073012	7/30/2012	0.83			<1	U		<0.73	U		<1.4	U		<1.7	U		<0.78	U		<1.3	U		<0 55	U		<1.2	U	
		VMP-30-20-100812	10/8/2012	1.1			<0 36	U		<0 27	U		<0.49	U		<0 61	U		<0 28	U		<1.2	U		<0.2	U		<0.44	U	
	30 ft	VMP-30-30-073012	7/30/2012	0.31	J		<1	U		<0.75	U		<1.4	U		<1.7	U		<0.8	U		<1.4	U		<0 56	U		<1.2	U	
		VMP-30-30-100812	10/8/2012	1 2	J		<0.76	U		<0 55	U		<1	U		<1.3	U		<0 59	U		<2.5	U		<0.41	U		<0 92	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	<0.015	U		<0 0076	U		<0 0056	U		<0 01	U		<0.013	U		<0 0059	U		<0.025	U		0 0065			<0.0093	U	
		VMP-41-10-100912	10/9/2012	<0.018	U		<0 0093	U		<0 0068	U		<0.013	U		<0.016	U		<0 0072	U		<0 03	U		<0.0051	U		<0 011	U	
	20 ft	VMP-41-20-072712	7/27/2012	<0.012	U		<0 0059	U		<0 0043	U		<0.008	U		<0 0099	U		<0 0046	U		<0.019	U		0.00088	J		<0.0072	U	
		VMP-41-20-072712-Dup	7/27/2012	<0.012	U		<0.006	U		<0 0044	U		<0 0081	U		<0.01	U		<0 0047	U		<0 02	U		0.00069	J		<0.0073	U	
		VMP-41-20-100912	10/9/2012	<0.018	U		<0 0091	U		<0 0066	U		<0.012	U		<0.015	U		<0.007	U		0 0079	J		<0.005	U		<0 011	U	
		VMP-41-20-100912-Dup	10/9/2012	<0.018	U		<0 0093	U		<0 0068	U		<0.013	U		<0.016	U		<0 0072	U		<0 03	U		<0.0051	U		<0 011	U	
	30 ft	VMP-41-30-072712	7/27/2012	<0.012	U		<0.006	U		<0 0044	U		<0 0081	U		<0 01	U		0 0013	J		<0 02	U		0 0051			<0.0073	U	
		VMP-41-30-100912	10/9/2012	<0.019	U		<0 0098	U		<0 0072	U		<0.013	U		<0.016	U		<0 0076	U		<0.032	U		<0.0054	U		<0 012	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				1700						6800						4200			0.81			1600			1100000			510		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	<0 0079	U		<0 0079	U		<0 0079	U		0.0024	J		<0 0053	U		<0 0053	U		<0 0052	U		<0.0052	U		<0.0052	U	
		VMP-10-5-111810	11/17/2010	<0 0073	U		<0 0073	U		<0 0073	U		0.0017	J		<0 0049	U		<0 0049	U		<0 0048	U		<0.0048	U		<0.0048	U	
		VMP-10-5-021011	2/10/2011	<0 0072	U		<0 0072	U		<0 0072	U		0.0024	J		<0 0048	U		<0 0048	U		<0 0047	U		<0.0047	U		<0.0047	U	
		VMP-10-5-040511	4/5/2011	<0 0066	J	U	<0 0066	U		<0 0066	J	U	0.0021	J		<0 0044	U		<0 0044	U		<0 0044	U		<0.0044	U		<0.0044	U	
		VMP-10-5-07/2911	7/29/2011	<0.008	U		<0.008	U		<0.008	U		0 002	J		<0 0054	U		<0 0054	U		<0 0053	U		<0.0053	U		<0.0053	U	
		VMP-10-5-110411	11/4/2011	<0 0042	U		<0 0042	U		<0 0042	U		0.0018	J		<0 0028	U		<0 0028	U		<0 0028	U		<0.0028	U		<0.0028	U	
		VMP-10-5-012512	1/26/2012	<0 0053	U		<0 0053	U		<0 0053	U		0.0025	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-10-5-041212	4/12/2012	<0 0056	U		<0 0056	U		<0 0056	U		0.0023	J		<0 0038	U		<0 0038	U		<0 0037	U		<0.0037	U		<0.0037	U	
		VMP-10-5-071312	7/13/2012	<0 0058	U		<0 0058	U		<0 0058	J	U	0.0028	J		<0 0039	U		<0 0039	U		<0 0038	U		<0.0038	U		<0.0038	U	
		VMP-10-5-101612	10/16/2012	<0 0091	U		<0 0091	U		<0 0091	U		0 002	J		<0 0061	U		<0 0061	U		<0.006	U		<0.006	U		<0.006	U	
	10 ft	VMP-10-10-090710	9/7/2010	<0 0079	U		<0 0079	U		<0 0079	U		0.0025	J		<0 0053	U		<0 0053	U		<0 0052	U		<0.0052	U		<0.0052	U	
		VMP-10-10-111810	11/17/2010	<0 0078	U		<0 0078	U		<0 0078	U		0.0022	J		<0 0052	U		<0 0052	U		<0 0051	U		<0.0051	U		<0.0051	U	
		VMP-10-10-021111	2/11/2011	<0 0061	U		<0 0061	U		<0 0061	J	U	0.0015	J		<0 0041	U		<0 0041	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-10-10-040611	4/6/2011	<0 0079	J	U	<0 0079	J	U	<0 0079	J	U	0.0023	J		<0 0053	U		<0 0053	U		<0 0052	U		<0.0052	J	U	<0.0052	U	
		VMP-10-10-072911	7/29/2011	<0 0083	U		<0 0083	U		<0 0083	U		0.0021	J		<0 0056	U		<0 0056	U		<0 0055	U		<0.0055	U		<0.0055	U	
		VMP-10-10-110411	11/4/2011	<0 0054	U		<0 0054	U		<0 0054	U		0.0026	J		<0 0036	U		<0 0036	U		<0 0035	U		0 0031	J		<0.0035	U	
		VMP-10-10-110411-DUP	11/4/2011	<0 0054	U		<0 0054	U		<0 0054	U		0.0026	J		<0 0036	U		<0 0036	U		<0 0035	U		0 0018	J		<0.0035	U	
		VMP-10-10-012512	1/26/2012	<0 0053	U		<0 0053	U		<0 0053	U		0.0032	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-10-10-012512-DUP	1/26/2012	0.0015	J		<0 0055	U		<0 0055	U		0.0026	J		<0 0037	U		<0 0037	U		<0 0036	U		<0.0036	U		<0.0036	U	
		VMP-10-10-041112	4/11/2012	<0 0057	U		<0 0057	J	U	<0 0057	U		0 002	J		<0 0039	U		<0 0039	U		<0 0038	U		<0.0038	U		<0.0038	U	
		VMP-10-10-071312	7/13/2012	<0 0056	U		<0 0056	U		<0 0056	J	U	0.0023	J		<0 0038	U		<0 0038	U		<0 0037	U		<0.0037	U		<0.0037	U	
		VMP-10-10-101612	10/16/2012	<0 0095	U		<0 0095	U		<0 0095	U		0.0019	J		<0 0064	U		<0 0064	U		<0 0063	U		<0.0063	U		<0.0063	U	
	20 ft	VMP-10-20-090710	9/7/2010	<0 0083	U		<0 0083	U		<0 0083	U		0.0027	J		<0 0056	U		<0 0056	U		<0 0055	U		<0.0055	U		<0.0055	U	
		VMP-10-20-090710-DUP	9/7/2010	<0 0078	U		<0 0078	U		<0 0078	U		0.0033	J		<0 0052	U		<0 0052	U		<0 0051	U		<0.0051	U		<0.0051	U	
		VMP-10-20-111810	11/17/2010	<0.015	U		<0.015	U		<0.015	U		0.0028	J		<0 0099	U		<0 0099	U		<0 0097	U		<0.0097	U		<0.0097	U	
		VMP-10-20-111810-Dup	11/17/2010	<0 0074	U		<0 0074	U		<0 0074	U		0.0019	J		<0.005	U		<0.005	U		<0 0049	U		<0.0049	U		<0.0049	U	
		VMP-10-20-021111	2/11/2011	<0 0073	U		<0 0073	U		<0 0073	U		0 002	J		<0 0049	U		<0 0049	U		<0 0048	U		<0.0048	U		<0.0048	U	
		VMP-10-20-040611	4/6/2011	<0 0088	J	U	<0 0088	J	U	<0 0088	J	U	0.0021	J		<0.006	U		<0 0059	U		<0 0058	U		<0.0058	U		<0.0058	U	
		VMP-10-20-072911	7/29/2011	<0 0082	U		<0 0082	U		<0 0082	U		0.0023	J		<0 0055	U		<0 0055	U		<0 0054	U		<0.0054	U		<0.0054	U	
		VMP-10-20-110411	11/4/2011	<0 0054	U		<0 0054	U		<0 0054	U		0.0027	J		<0 0036	U		<0 0036	U		<0 0035	U		0 0011	J		<0.0035	U	
		VMP-10-20-012612	1/26/2012	<0.005	U		<0.005	U		<0.005	U		0.0024	J		<0 0034	U		<0 0034	U		<0 0033	U		<0.0033	U		<0.0033	U	
		VMP-10-20-041212	4/12/2012	<0 0056	U		<0 0056	U		<0 0056	J	U	0.0023	J		<0 0038	U		<0 0038	U		<0 0037	U		<0.0037	U		<0.0037	U	
		VMP-10-20-071612	7/16/2012	<0 0054	U		<0 0054	U		<0 0054	J	U	0.0028	J		<0 0036	U		<0 0036	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-10-20-101612	10/16/2012	<0 0096	U		<0 0096	U		<0 0096	U		0.0022	J		<0 0064	U		<0 0064	U		<0 0063	U		<0.0063	U		<0.0063	U	
	30 ft	VMP-10-30-041212	4/12/2012	<0 0059	U		<0 0059	U		<0 0059	U		0.0035	J		<0.004	U		<0.004	U		<0 0039	U		<0.0039	U		<0.0039	U	
		VMP-10-30-071612	7/16/2012	<0 0052	U		<0 0052	U		<0 0052	J	U	0.0026	J		<0 0035	U		<0 0035	U		<0 0034	U		<0.0034	U		<0.0034	U	
		VMP-10-30-101612	10/16/2012	<0.009	U		<0.009	U		<0.009	U		0.0026	J		<0 0061	U		<0 0061	U		<0 0059	U		<0.0059	U		<0.0059	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	<0 0074	U		<0 0074	U		<0 0074	U		0.0025	J		<0.005	U		<0.005	U		<0 0049	U		<0.0049	U		<0.0049	U	
		VMP-11-5-112210	11/22/2010	<0 0078	U		0.0011	J		<0 0078	U		0.0019	J		<0 0052	U		<0 0052	U		<0 0051	U		<0.0051	U		<0.0051	U	
		VMP-11-5-021511	2/15/2011	<0 0068	U		<0 0068	U		<0 0068	U		0.0029	J		<0 0046	U		<0 0046	U		<0 0045	U		<0.0045	U		<0.0045	U	
		VMP-11-5-040611	4/6/2011	<0.065	U		<0.065	U		<0.065	U		<0.053	U		<0.044	U		<0.044	U		<0.043	U		<0.043	U		<0.043	U	
		VMP-11-5-080711	8/7/2011	<0.089	U		<0.089	U		<0.089	U		<0.073	U		<0 06	U		<0 06	U		<0.059	U		<0.059	U		<0.059	U	
		VMP-11-5-111111	11/11/2011	<0.018	U		<0.018	U		<0.018	U		<0.014	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-11-5-012612	1/26/2012	<0 0053	U		<0 0053	U		<0 0053	U		0.0024	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-11-5-041912	4/19/2012	<0 0059	U		<0 0059	U		<0 0059	J	U	0.0028	J		<0.004	U		0.00084	J		<0 0039	U		<0.0039	U		<0.0039	U	
		VMP-11-5-071912	7/16/2012	<0 0076	U		<0 0076	J	U	<0 0076	J	U	0.0022	J		<0 0051	U		<0 0051	J	U	<0.005	U		<0.005	U		<0.005	U	
		VMP-11-5-101612	10/16/2012	<0 0085	U		<0 0085	U		<0 0085	U		0.0022	J		<0 0057	U		<0 0057	U		<0 0056	U		<0.0056	U		<0.0056	U	
	8 ft	VMP-11-8-090810	9/8/2010	<0 0078	U		<0 0078	U		<0 0078	U		0.0038	J		<0 0052	U		<0 0052	U		<0 0051	U		<0.0051	U		<0.0051	U	
		VMP-11-8-112210	11/22/2010	<0 0078	U		<0 0078	U		<0 0078	U		0.0022	J		<0 0052	U		<0 0052	U		<0 0051	U		<0.0051	U		<0.0051	U	
		VMP-11-8-021111	2/11/2011	<0 0075	U		<0 0075	U		<0 0075	U		0.0035	J		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-11-8-021111-DUP	2/11/2011	<0 0071	U		<0 0071	U		<0 0071	U		0.0033	J		<0 0048	U		<0 0048	U		<0 0046	U		<0.0046	U		<0.0046	U	
		VMP-11-8-040611	4/6/2011	<0.033	U		<0.033	U		<0.033	U		<0.027	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.029	U		<0.029	U		<0.029	U		<0.024	U		<0.019	U		<0.019	U		<0.019	U		<0.019	U		<0.019	U	
		VMP-11-8-080711	8/7/2011	<0.089	U		<0.089	U		<0.089	U		<0.073	U		<0 06	U		<0 06	U		<0.059	U		<0.059	U		<0.059	U	
		VMP-11-8-111411	11/14/2011	<0 0053	U		<0 0053	U		<0 0053	U		0.0025	J		<0 0036	U		<0 0036	U		<0 0035	U		0 0011	J		<0.0035	U	
		VMP-11-8-012612	1/26/2012	<0 0051	U		<0 0051	U		<0 0051	U		0.0028	J		<0 0035	U		<0 0035	U		<0 0034	U		<0.0034	U		<0.0034	U	
		VMP-11-8-041912	4/19/2012	<0 0059	U		<0 0059	U		<0 0059	J	U	0.0028	J		<0.004	U		<0.004	U		<0 0039	U		<0.0039	U		<0.0039	U	
		VMP-11-8-072012	7/20/2012	<0 0059	U		<0 0059	U		<0 0059	U		0.0027	J		<0.004	U		<0.004	U		<0 0039	U		<0.0039	U		<0.0039	U	
		VMP-11-8-101612	10/16/2012	<0 0086	U		<0 0086	U		<0 0086	U		0.0028	J		<0 0058	U		<0 0058	U		<0 0057	U		<0.0057	U		<0.0057	U	
		VMP-11-8-101612-Dup	10/16/2012	<0 0087	U		<0 0087	U		<0 0087	J	U	0.0022	J		<0 0058	U		<0 0058	U		<0 0057	U		<0.0057	U		<0.0057	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0.19	U		<0.19	U		<0.19	U		<0.16	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U	
		VMP-11-29-112210	11/22/2010	<2.8	U		<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		<1.8	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.9	U		<1.9	U		<1.9	U		<1.6	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U	
		VMP-11-29-021411	2/14/2011	<0 0075	U		<0 0075	U		<0 0075	U		0.0041	J		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-11-29-040611	4/6/2011	<0.057	U		<0.057	U		<0.057	U		<0.047	U		<0.038	U		<0.038	U		<0.037	U		<0.037	U		<0.037	U	
		VMP-11-29-082511	8/25/2011	<0 0083	U		<0 0083	U		<0 0083	U		0.0023	J		<0 0056	U		<0 0056	U		<0 0055	U		<0.0055	U		<0.0055	U	
		VMP-11-29-082511-Dup	8/25/2011	<0 0083	U		<0 0083	U		<0 0083	U		0.0023	J		<0 0056	U		<0 0056	U		<0 0055	U		<0.0055	U		<0.0055	U	
		VMP-11-29-111411	11/14/2011	<0 0053	U		<0 0053	U		<0 0053	U		0.0019	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-11-29-012612	1/26/2012	<0.005	U		<0.005	U		<0.005	U		0.0025	J		<0 0034	U		<0 0034	U		<0 0033	U		<0.0033	U		<0.0033	U	
		VMP-11-29-042712	4/27/2012	<0 0053	U		<0 0053	U		<0 0053	J	U	0.0022	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-11-29-072012	7/23/2012	<0 0053	U		<0 0053	U		<0 0053	U		0.0024	J		<0 0035	U		<0 0035	U		<0 0035	U		<0.0035	U		<0.0035	U	
		VMP-11-29-101612	10/16/2012	<0 0089	U		<0 0089	U		<0 0089	U		0.0024	J		<0.006	U		<0.006	U		<0 0059	U		<0.0059	U		<0.0059	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0 39	U		<0 39	U		<0 39	U		<0 32	U		<0 26	U		<0 26	U		<0 26	U		<0 26	U		<0 26	U	
		VMP-11-38-042312-Dup	4/23/2012	<1.4	U		<1.4	U		<1.4	U		<1.1	U		<0 93	U		<0 93	U		<0 91	U		<0 91	U		<0 91	U	
		VMP-11-38-072312	7/23/2012	<0 65	U		<0 65	U		<0 65	U		<0 54	U		<0.44	U		<0.44	U		<0.43	U		<0.43	U		<0.43	U	
		VMP-11-38-101612	10/16/2012	<0.009	U		<0.009	U		<0.009	J	U	0.0026	J		<0 0061	U		<0 0061	U		<0 0059	U		<0.0059	U		<0.0059	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				1700						6800						4200			0.81			1600			1100000			510		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<8.1	U		<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U		<5.3	U	
		VMP-12-5-120310	12/3/2010	<80	U		<80	U		<80	U		<66	U		<54	U		<54	U		<53	U		<53	U		<53	U	
		VMP-12-5-021511	2/15/2011	<3.7	U		<3.7	U		<3.7	U		<3	U		<2.5	U		<2.5	U		<2.4	U		<2.4	U		<2.4	U	
		VMP-12-5-041911	4/19/2011	<27	U		<27	U		<27	U		<22	U		<18	U		<18	U		<18	U		<18	U		<18	U	
		VMP-12-5-080411	8/4/2011	<6.9	U		<6.9	U		<6.9	U		<5.7	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		<4.6	U	
		VMP-12-5-111611	11/16/2011	<0 0049	U		<0 0049	U		<0 0049	U		<0.004	U	UJ	<0 0033	U		<0 0033	U		<0 0032	U		<0.0032	U		<0.0032	U	
		VMP-12-5-012412	1/24/2012	<0.055	U		<0.055	U		<0.055	U		<0.045	U		<0.037	U		<0.037	U		<0.036	U		<0.036	U		<0.036	U	
		VMP-12-5-041912	4/19/2012	<0 0055	U		<0 0055	U		<0 0055	U		0.0029	J		<0 0037	U		<0 0037	U		<0 0036	U		<0.0036	U		<0.0036	U	
		VMP-12-5-072612	7/26/2012	<0 0059	U		<0 0059	U		<0 0059	J	U	0.0032	J		<0 0039	U		<0 0039	U		<0 0039	U		<0 0039	U		<0.0039	U	
		VMP-12-5-072612-Dup	7/26/2012	<0 0054	U		<0 0054	U		<0 0054	J	U	0.0059			<0 0036	U		<0 0036	U		<0 0035	U		<0 0035	U		<0.0035	U	
		VMP-12-5-102412	10/24/2012	<0.009	U		<0.009	U		<0.009	U		0.0024	J		<0 0061	U		<0 0061	U		<0 0059	U		<0 0059	U		<0.0059	U	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<10	U		<10	U		<10	U		<8.5	U		<7	U		<7	U		<6.8	U		<6.8	U		<6.8	U	
		VMP-12-11.5-120310	12/3/2010	<9	U		<9	U		<9	U		<7.4	U		<6	U		<6	U		<5.9	U		<5.9	U		<5.9	U	
		VMP-12-11.5-021511	2/15/2011	<8	U		<8	U		<8	U		<6.6	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U		<5.3	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<6.9	U		<6.9	U		<6.9	U		<5.7	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		<4.6	U	
		VMP-12-11.5-041911	4/19/2011	<24	U		<24	U		<24	U		<20	U		<16	U		<16	U		<16	U		<16	U		<16	U	
		VMP-12-11.5-080411	8/4/2011	<8.5	U		<8.5	U		<8.5	U		<7	U		<5.7	U		<5.7	U		<5.6	U		<5.6	U		<5.6	U	
		VMP-12-11.5-111611	11/16/2011	<0.068	U		<0.068	U		<0.068	U		<0.056	U	UJ	<0.046	U		<0.046	U		<0.045	U		<0.045	U		<0.045	U	
		VMP-12-11.5-012412	1/24/2012	<0 63	U		<0 63	U		<0 63	U		<0 52	U		<0.42	U		<0.42	U		<0.42	U		<0.42	U		<0.42	U	
		VMP-12-11.5-041912	4/19/2012	<0.057	U		<0.057	U		<0.057	U		<0.047	U		<0.039	U		<0.039	U		<0.038	U		<0.038	U		<0.038	U	
		VMP-12-11.5-082012	8/20/2012	<0 0091	U		0 003	J		<0 0091	J	U	0 004	J	J	<0 0061	U		<0 0061	U		<0.006	U		<0.006	U		<0.006	U	
		VMP-12-11.5-102612	10/26/2012	<0 0087	U		<0 0087	U		<0 0087	U		0.0022	J		<0 0058	U		<0 0058	U		<0 0057	U		<0 0057	U		<0.0057	U	
	25 ft	VMP-12-25-090310	9/3/2010	<13	U		<13	U		<13	U		<11	U		<8.9	U		<8.9	U		<8.7	U		<8.7	U		<8.7	U	
		VMP-12-25-120310	12/3/2010	<0 66	U		<0 66	U		<0 66	U		<0 54	U		<0.44	U		<0.44	U		<0.43	U		<0.43	U		<0.43	U	
		VMP-12-25-021511	2/15/2011	<16	U		<16	U		<16	U		<13	U		<11	U		<11	U		<10	U		<10	U		<10	U	
		VMP-12-25-041911	4/19/2011	<26	U		<26	U		<26	U		<21	U		<18	U		<18	U		<17	U		<17	U		<17	U	
		VMP-12-25-080411	8/4/2011	<16	U		<16	U		<16	U		<14	U		<11	U		<11	U		<11	U		<11	U		<11	U	
		VMP-12-25-111611	11/16/2011	<19	U		<19	U		<19	U		<16	U	UJ	<13	U		11	J		<12	U		<12	U		<12	U	
		VMP-12-25-012412	1/24/2012	<7 2	U		<7.2	U		<7.2	U		<5.9	U		<4.8	U		<4.8	U		<4.8	U		<4.8	U		<4.8	U	
		VMP-12-25-012412-DUP	1/24/2012	<53	U		<53	U		<53	U		<43	U		<35	U		<35	U		<35	U		<35	U		<35	U	
		VMP-12-25-041912	4/19/2012	<5 5	U		<5 5	U		<5.5	U		<4.5	U		<3.7	U		<3.7	U		<3.6	U		<3.6	U		<3.6	U	
		VMP-12-25-072712	7/27/2012	<6	U		<6	U		<6	U		<5	U		<4.1	U		<4.1	U		<4	U		<4	U		<4	U	
		VMP-12-25-072712-Dup	7/27/2012	<6	U		<6	U		<6	U		<5	U		<4.1	U		<4.1	U		<4	U		<4	U		<4	U	
		VMP-12-25-102512	10/25/2012	<2 6	U		<2 6	U		<2.6	U		<2.1	U		<1.8	U		<1.8	U		<1.7	U		<1.7	U		<1.7	U	
	39 ft	VMP-12-39-041911	4/19/2011	<25	U		<25	U		<25	U		<21	U		<17	U		<17	U		<17	U		<17	U		<17	U	
		VMP-12-39-012412	1/24/2012	<53	U		<53	U		<53	U		<43	U		<35	U		<35	U		<35	U		<35	U		<35	U	
		VMP-12-39-041912	4/19/2012	<26	U		<26	U		<26	U		<22	U		<18	U		<18	U		<17	U		<17	U		<17	U	
		VMP-12-39-072612	7/26/2012	<12	U		<12	U		<12	U		<9.9	U		<8.1	U		<8.1	U		<8	U		<8	U		<8	U	
		VMP-12-39-102412	10/24/2012	<32	U		<32	U		<32	U		<26	U		<21	U		<21	U		<21	U		<21	U		<21	U	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	<0.053	U		<0.053	U		<0.053	U		<0.044	U		<0.036	U		<0.036	U		<0.035	U		<0.035	U		<0.035	U	
		VMP-13-5-120110	12/1/2010	<0.007	U		<0.007	U		<0.007	U		0.0032	J		<0 0047	U		<0 0047	U		<0 0046	U		<0 0046	U		<0 0046	U	
		VMP-13-5-021811	2/18/2011	<0 0083	U		<0 0083	U		<0 0083	U		0.0024	J		<0 0056	U		<0 0056	U		<0 0055	U		<0 0055	U		<0 0055	U	
		VMP-13-5-040511	4/5/2011	<0.016	J	U	<0.016	U		<0.016	J	U	<0.014	U		<0.011	U		<0.011	U		<0.011	U		<0.011	U		<0.011	U	
		VMP-13-5-080911	8/9/2011	<0.018	U		<0.018	J	U	<0.018	J	U	0.0027	J		<0.012	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-13-5-080911-DUP	8/9/2011	<0.016	U		<0.016	U		<0.016	U		0 003	J		<0.011	U		<0.011	U		<0 01	U		<0 01	U		<0 01	U	
		VMP-13-5-111411	11/14/2011	<0 0055	U		<0 0055	U		<0 0055	U		0 002	J		<0 0037	U		<0 0037	U		<0 0036	U		<0 0036	U		<0 0036	U	
		VMP-13-5-012712	1/27/2012	<0.046	U		<0.046	U		<0.046	U		<0.038	U		<0.031	U		<0.031	U		<0.031	U		<0.031	U		<0.031	U	
		VMP-13-5-042012	4/20/2012	<0 0054	U		<0 0054	U		<0 0054	J	U	0.0028	J		<0 0036	U		<0 0036	U		<0 0035	U		<0 0035	U		<0 0035	U	
		VMP-13-5-071912	7/19/2012	<0 0056	U		<0 0056	U		<0 0056	J	U	0.0028	J		<0 0038	U		0 0011	J		<0 0037	U		<0 0037	U		<0 0037	U	
		VMP-13-5-071912-Dup	7/19/2012	<0 0056	U		<0 0056	U		<0 0056	U		0.0032	J		<0 0038	U		0 0008	J		<0 0037	U		<0 0037	U		<0 0037	U	
		VMP-13-5-100912	10/9/2012	<0 0087	U		<0 0087	U		<0 0087	J	U	0.0025	J		<0 0058	U		<0 0058	U		<0 0057	U		<0 0057	U		<0 0057	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	<0 02	U		<0 02	U		<0 02	U		0.0032	J		<0.013	U		<0.013	U		<0.013	U		<0.013	U		<0.013	U	
		VMP 13-10 5-091310-Dup	9/13/2010	<0 019	U		<0.019	U		<0.019	U		0.0034	J		<0.013	U		<0.013	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-13-10.5-120110	12/1/2010	<0 0078	U		<0 0078	U		<0 0078	U		0 003	J		<0 0052	U		<0 0052	U		<0 0051	U		<0 0051	U		<0 0051	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0 0081	U		<0 0081	U		<0 0081	U		0.0032	J		<0 0055	U		<0 0055	U		<0 0054	U		<0 0054	U		<0 0054	U	
		VMP-13-10.5-021811	2/18/2011	<3 2	U		<3 2	U		<3 2	U		<2 6	U		<2.2	U		<2.2	U		<2.1	U		<2.1	U		<2.1	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<3.1	U		<3.1	U		<3.1	U		<2 5	U		<2.1	U		<2.1	U		<2	U		<2	U		<2	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0 0083	U		<0 0083	U		<0 0083	J	U	0.0021	J		<0 0056	U		<0 0056	U		<0 0055	U		<0 0055	U		<0 0055	U	
		VMP-13-10.5-080911	8/9/2011	<0.18	U		<0.18	U		<0.18	U		<0.15	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U	
		VMP-13-10.5-111411	11/14/2011	<0 0053	U		<0 0053	U		<0 0053	U		0 002	J		<0 0036	U		<0 0036	U		<0 0035	U		<0 0035	U		<0 0035	U	
		VMP-13-10.5-012712	1/26/2012	<0 015	U		<0 015	U		<0.015	U		0.0024	J		<0 0099	U		<0 0099	U		<0 0097	U		<0 0097	U		<0 0097	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0 021	U		<0 021	U		<0.021	U		<0.017	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U	
		VMP-13-10.5-042012	4/20/2012	<0 0053	U		<0 0053	U		<0 0053	J	U	0 003	J		<0 0035	U		<0 0035	J	U	<0 0035	U		<0 0035	U		<0 0035	U	
		VMP-13-10.5-071912	7/19/2012	<0 0056	U		0.0082			<0 0056	U		0.0031	J		<0 0038	U		<0 0038	U		<0 0037	U		<0 0037	U		<0 0037	U	
		VMP-13-10.5-100912	10/9/2012	<0 0074	U		<0 0074	U		<0 0074	U		0.0024	J		<0.005	U		<0.005	U		<0 0049	U		<0 0049	U		<0 0049	U	
		VMP-13-10.5-100912-Dup	10/9/2012	<0 0089	U		<0 0089	U		<0 0089	U		0 002	J		<0.006	U		<0.006	U		<0 0059	U		<0 0059	U		<0 0059	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<14	U		<14	U		<14	U		<12	U		<9 8	U		<9 8	U		<9.6	U		<9.6	U		<9.6	U	
		VMP-13-21.5-120110	12/1/2010	<28	U		<28	U		<28	U		<23	U		<19	U		<19	U		<18	U		<18	U		<18	U	
		VMP-13-21.5-021811	2/18/2011	<4 2	U		<4 2	U		<4 2	U		<3 5	U		<2 8	U		<2 8	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-13-21.5-040511	4/5/2011	<6.1	U		<6.1	U		<6.1	U		<5	U		<4.1	U		<4.1	U		<4	U		<4	U		<4	U	
		VMP-13-21.5-080911	8/9/2011	<0.76	U		<0.76	U		<0.76	U		<0 62	U		<0 51	U		<0 51	U		<0.5	U		<0.5	U		<0.5	U	
		VMP-13-21.5-111411	11/14/2011	<3.4	U		0.56	J		0.77	J		<2 8	U		<2 3	U		1.4	J		<2.3	U		<2.3	U		<2.3	U	
		VMP-13-21.5-111411-DUP	11/14/2011	<3.4	U		<3.4	U		0.71	J		<2 8	U		<2 3	U		1 6	J		<2.3	U		<2.3	U		<2.3	U	
		VMP-13-21.5-012712	1/27/2012	<0 8	U		<0 8	U		<0 8	U		<0 66	U		<0 54	U		<0 54	U		<0 53	U		<0 53	U		<0 53	U	
		VMP-13-21.5-042012	4/20/2012	<0 09	U		<0 09	U		0 014	J		<0.074	U		<0 06	U		<0 06	U		<0.059	U		<0.059	U		<0.059	U	
		VMP-13-21.5-071912	7/19/2012	<0 0056	U		0.0067			<0 0056	U		0.0025	J		<0 0038	U		<0 0038	U		<0 0037	U		<0 0037	U		<0 0037	U	
		VMP-13-21.5-100912	10/9/2012	<0 0091	U		<0 0091	U		<0 0091	U		0.0025	J		<0 0061	U		<0 0061	U		<0.006	U		<0.006	U		<0.006	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<130	U		<130	U		<130	U		<110	U		<87	U		<87	U		<86	U		<86	U		<86	U	
		VMP-13-29.5-040511	4/5/2011	<84	U		<84	U		<84	U		<69	U		<57	U		<57	U		<56	U		<56	U		<56	U	
		VMP-13-29.5-013012	1/30/2012	<2 6	U		<2 6	U		<2 6	U		<2.1	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U	
		VMP-13-29.5-042012	4/20/2012	<3.4	U		<3.4	U		<3.4	U		<2 8	U		<2 3	U		<2 3	U		<2.2	U		<2.2	U		<2.2	U	
		VMP-13-29.5-071912	7/19/2012	<9.7	U		<9.7	U		<9.7	U		<8	U		<6 5	U		<6 5	U		<6.4	U		<6.4	U		<6.4	U	
		VMP-13-29.5-100912	10/9/2012	<9.1	U		<9.1	U		<9.1	U		<7 5	U		<6.1	U		<6.1	U		<6	U		<6	U		<6	U	

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				1700						6800						4200			0.81			1600			1100000			510		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0 37	U		<0 37	U		<0 37	U		<0 31	U		<0 25	U		<0 25	U		<0 24	U		<0 24	U		<0 24	U	
		VMP-14-5-120110	12/1/2010	<0 0072	U		<0 0072	U		<0 0072	U		0.0025	J		<0 0048	U		<0 048	U		<0 0048	U		<0.0048	U		<0.0048	U	
		VMP-14-5-021711	2/17/2011	<0 0079	U		<0 0079	U		<0 0079	U		0.0023	J		<0 0053	U		<0 0053	U		<0 0052	U		<0.0052	U		<0.0052	U	
		VMP-14-5-040511	4/5/2011	<0 0081	J	U	<0 0081	J	U	<0 0081	J	U	0.0023	J		<0 0054	U		<0 0054	U		<0 0053	U		<0.0053	U		<0.0053	U	
		VMP-14-5-080811	8/8/2011	<8.4	U		<8.4	U		<8.4	U		<6.9	U		<5.7	U		<5.7	U		<5.6	U		<5.6	U		<5.6	U	
		VMP-14-5-111411	11/14/2011	<0.021	U		<0.021	U		<0.021	U		<0.017	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U		<0.014	U	
		VMP-14-5-042012	4/20/2012	0.0012	J		0.0014	J		<0 0051	J	U	0.0025	J		<0 0035	U		0.00037	J		<0 0034	U		<0.0034	U		<0.0034	U	
		VMP-14-5-072312	7/23/2012	<0 0062	U		<0 0062	U		<0 0062	U		0.0028	J		<0 0042	U		<0 0042	U		<0 0041	U		<0.0041	U		<0.0041	U	
		VMP-14-5-101012	10/10/2012	<0 0087	U		<0 0087	U		<0 0087	U		0.0024	J		<0 0058	U		<0 0058	U		<0 0057	U		<0.0057	U		<0.0057	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<5.7	U		<5.7	U		<5.7	U		<4.7	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U		<3.8	U	
		VMP-14-11.5-120110	12/2/2010	<0.5	U		<0.5	U		<0.5	U		<0.42	U		<0 34	U		<0 34	U		<0 33	U		<0 33	U		<0 33	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0.46	U		<0.46	U		<0.46	U		<0 38	U		<0 31	U		<0 31	U		<0.3	U		<0.3	U		<0.3	U	
		VMP-14-11.5-021711	2/17/2011	<0.16	U		<0.16	U		<0.16	U		<0.14	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.16	U		<0.16	U		<0.16	U		<0.14	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-14-11.5-040511	4/5/2011	<0.027	U		<0.027	U		<0.027	U		<0.022	U		<0.018	U		<0.018	U		<0.018	U		<0.018	U		<0.018	U	
		VMP-14-11.5-080811	8/8/2011	<0 84	U		<0 84	U		<0 84	U		<0 69	U		<0 56	U		<0 56	U		<0 55	U		<0 55	U		<0 55	U	
		VMP-14-11.5-111511	11/15/2011	<1.3	U		0.21	J		0.31	J		<1.1	U		<0 87	U		0.89			<0 86	U		<0 86	U		<0 86	U	
		VMP-14-11.5-012612	1/26/2012	<5.3	U		<5.3	U		<5.3	U		<4.4	U		<3.6	U		<3.6	U		<3.5	U		<3.5	U		<3.5	U	
		VMP-14-11.5-042312	4/23/2012	<0 0055	U		<0 0055	U		<0 0055	J	U	0.0023	J		<0 0037	U		0.00076	J		<0 0036	U		<0.0036	U		<0.0036	U	
		VMP-14-11.5-042312-Dup	4/23/2012	<0 0055	U		<0 0055	U		<0 0055	J	U	0.0014	J		<0 0037	U		<0 0037	U		<0 0036	U		<0 0036	U		<0.0036	U	
		VMP-14-11.5-072512	7/25/2012	<1.9	U		<1.9	U		<1.9	U		<1.6	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U		<1.3	U	
		VMP-14-11.5-101012	10/10/2012	<0 0083	U		<0 0083	U		<0 0083	U		0.0023	J		<0 0056	U		<0 0056	U		<0 0055	U		<0 0055	U		<0.0055	U	
	20 ft	VMP 14-20-091010	9/10/2010	<87	U		<87	U		<87	U		<72	U		<59	U		<59	U		<58	U		<58	U		<58	U	
		VMP 14-20-091010-Dup	9/10/2010	<91	U		<91	U		<91	U		<75	U		<61	U		<61	U		<60	U		<60	U		<60	U	
		VMP-14-20-120110	12/2/2010	<240	U		<240	U		<240	U		<190	U		<160	U		<160	U		<160	U		<160	U		<160	U	
		VMP-14-20-021811	2/18/2011	<130	U		<130	U		<130	U		<110	U		<90	U		<90	U		<88	U		<88	U		<88	U	
		VMP-14-20-040511	4/5/2011	<57	U		<57	U		<57	U		<47	U		<38	U		<38	U		<38	U		<38	U		<38	U	
		VMP-14-20-080811	8/8/2011	<21	U		<21	U		<21	U		<17	U		<14	U		<14	U		<14	U		<14	U		<14	U	
		VMP-14-20-111511	11/15/2011	<110	U		<110	U		<110	U		<88	U		<72	U		<72	U		<70	U		<70	U		<70	U	
		VMP-14-20-012612	1/26/2012	<10	U		<10	U		<10	U		<8.6	U		<7.1	U		<7.1	U		<6.9	U		<6.9	U		<6.9	U	
		VMP-14-20-042312	4/23/2012	<5.7	U		<5.7	U		<5.7	U		<4.7	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U		<3.8	U	
		VMP-14-20-072512	7/25/2012	<9 2	U		<9.2	U		<9.2	U		<7.5	U		<6.2	U		<6.2	U		<6	U		<6	U		<6	U	
		VMP-14-20-101612	10/16/2012	<42	U		<42	U		<42	U		<35	U		<28	U		<28	U		<28	U		<28	U		<28	U	
	29 ft	VMP-14-29-021811	2/18/2011	<190	U		<190	U		<190	U		<160	U		<130	U		<130	U		<130	U		<130	U		<130	U	
		VMP-14-29-040511	4/5/2011	<160	U		<160	U		<160	U		<140	U		<110	U		<110	U		<110	U		<110	U		<110	U	
		VMP-14-29-012612	1/26/2012	<190	U		<190	U		<190	U		<160	U		<130	U		<130	U		<120	U		<120	U		<120	U	
		VMP-14-29-042312	4/23/2012	<67	U		<67	U		<67	U		<55	U		<45	U		<45	U		<44	U		<44	U		<44	U	
		VMP-14-29-072512	7/25/2012	<71	U		<71	U		<71	U		<58	U		<48	U		<48	U		<46	U		<46	U		<46	U	
		VMP-14-29-101612	10/16/2012	<100	U		<100	U		<100	U		<87	U		<71	U		<71	U		<70	U		<70	U		<70	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	<0 0076	U		<0 0076	U		<0 0076	U		0 002	J		<0 0051	U		<0 0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-15-5-113010	11/30/2010	<0.18	U		<0.18	U		<0.18	U		<0.15	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U		<0.12	U	
		VMP-15-5-021611	2/16/2011	<0.17	U		<0.17	U		<0.17	U		<0.14	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-15-5-042011	4/20/2011	<0.4	U		<0.4	U		<0.4	U		<0 33	U		<0 27	U		<0 27	U		<0 26	U		<0 26	U		<0 26	U	
		VMP-15-5-080811	8/8/2011	<0 0089	J	U	<0 0089	J	U	<0 0089	J	U	0.0026	J		<0.006	U		<0.006	J	U	<0 0059	U		<0 0059	U		<0 0059	U	
		VMP-15-5-111511	11/15/2011	<0 01	U		<0 01	U		<0 01	U		<0 0082	U		<0 0067	U		<0 0067	U		<0 0066	U		<0 0066	U		<0 0066	U	
		VMP-15-5-020112	2/1/2012	<0 051	U		<0.051	U		<0.051	U		<0.042	U		<0.035	U		<0.035	U		<0.034	U		<0.034	U		<0.034	U	
		VMP-15-5-042412	4/24/2012	<0 053	U		<0.053	U		<0.053	U		<0.043	U		<0.035	U		<0.035	U		<0.035	U		<0.035	U		<0.035	U	
		VMP-15-5-072512	7/25/2012	<0 0059	U		<0 0059	J	U	<0 0059	J	U	0.0029	J		<0.004	U		<0.004	U		<0 0039	U		<0 0039	U		<0 0039	U	
		VMP-15-5-102512	10/25/2012	<0 0089	U		<0 0089	U		<0 0089	J	U	0.0024	J		<0.006	U		<0.006	U		<0 0059	U		<0 0059	U		<0 0059	U	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<0 82	U		<0 82	U		<0 82	U		<0 68	U		<0 55	U		<0 55	U		<0 54	U		<0 54	U		<0 54	U	
		VMP-15-21.5-113010	11/30/2010	<0 96	U		<0 96	U		<0 96	U		<0.79	U		<0 65	U		<0 65	U		<0 64	U		<0 64	U		<0 64	U	
		VMP-15-21.5-021611	2/16/2011	<0 67	U		<0 67	U		<0 67	U		<0 55	U		<0.45	U		<0.45	U		<0.44	U		<0.44	U		<0.44	U	
		VMP-15-21.5-042011	4/20/2011	<1	U		<1	U		<1	U		<0 87	U		<0.71	U		<0.71	U		<0.7	U		<0.7	U		<0.7	U	
		VMP-15-21.5-080811	8/8/2011	<0 85	U		<0 85	U		<0 85	U		<0.7	U		<0 57	U		<0 57	U		<0 56	U		<0 56	U		<0 56	U	
		VMP-15-21.5-111511	11/15/2011	<0 68	U		<0 68	U		<0 68	U		<0 56	U	UJ	<0.46	U		<0.46	U		<0.45	U		<0.45	U		<0.45	U	
		VMP-15-21.5-020112	2/1/2012	<0 5	U		<0 5	U		<0 5	U		<0.42	U		<0 34	U		<0 34	U		<0 33	U		<0 33	U		<0 33	U	
		VMP-15-21.5-042412	4/24/2012	<0 22	U		<0 22	U		<0 22	U		<0.18	U		<0.15	U		<0.15	U		<0.14	U		<0.14	U		<0.14	U	
		VMP-15-21.5-072512	7/25/2012	<0 8	U		<0 8	U		<0 8	U		<0 66	U		<0 54	U		<0 54	U		<0 52	U		<0 52	U		<0 52	U	
		VMP-15-21.5-102512	10/25/2012	<1 3	U		<1 3	U		<1 3	U		<1.1	U		<0 88	U		<0 88	U		<0 86	U		<0 86	U		<0 86	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<1 3	U		<1 3	U		<1 3	U		<1.1	U		<0 9	U		<0 9	U		<0 88	U		<0 88	U		<0 88	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	<0 0078	U		<0 0078	U		<0 0078	U		0 002	J		<0 0052	U		<0 0052	U		<0 0051	U		<0 0051	U		<0 0051	U	
		VMP-15-25.5-021611	2/16/2011	<0.1	U		<0.1	U		<0.1	U		<0.085	U		<0 07	U		<0 07	U		<0.068	U		<0.068	U		<0.068	U	
		VMP-15-25.5-042011	4/20/2011	<0 085	U		<0 085	U		<0 085	U		<0 07	U		<0.057	U		<0.057	U		<0.056	U		<0.056	U		<0.056	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0 079	U		<0 079	U		<0 079	U		<0.065	U		<0.053	U		<0.053	U		<0.052	U		<0.052	U		<0.052	U	
		VMP-15-25.5-080811	8/8/2011	<0 085	U		<0 085	U		<0 085	U		<0 07	U		<0.057	U		<0.057	U		<0.056	U		<0.056	U		<0.056	U	
		VMP-15-25.5-111511	11/15/2011	<0 026	U		<0 026	U		<0 026	U		<0 021	U	UJ	<0.018	U		<0.018	U		<0.017	U		<0.017	U		<0.017	U	
		VMP-15-25.5-073112	7/31/2012	<0 055	U		<0 055	U		<0 055	U		<0 045	U		<0.037	U		<0.037	U		<0.036	U		<0.036	U		<0.036	U	
		VMP-15-25.5-102512	10/25/2012	<0 0089	U		<0 0089	U		<0 0089	U		<0 0073	U		<0.006	U		<0.006	U		<0 0059	U		<0 0059	U		<0 0059	U	
	29 ft	VMP-15-29-073112	7/31/2012	<0 24	U		<0 24	U		<0 24	U		<0.19	U		<0.16	U		<0.16	U		<0.16	U		<0.16	U		<0.16	U	
		VMP-15-29-102512	10/25/2012	<0 018	U		<0 018	U		<0 018	U		<0 015	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U		<0.012	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				1700						6800						4200			0.81			1600			1100000			510		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<14	U		<14	U		<14	U		<12	U		<9.6	U		<9.6	U		<9.4	U		<9.4	U		<9.4	U	
		VMP-16-5-112910	11/29/2010	<6.6	U		<6.6	U		<6.6	U		<5.4	U		<4.4	U		<4.4	U		<4.3	U		<4.3	U		<4.3	U	
		VMP-16-5-021511	2/15/2011	<4	U		<4	U		<4	U		<3.3	U		<2.7	U		<2.7	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-16-5-042211	4/22/2011	<5.3	U		<5.3	U		<5.3	U		<4.4	U		<3.6	U		<3.6	U		<3.5	U		<3.5	U		<3.5	U	
		VMP-16-5-080511	8/5/2011	<1.7	U		<1.7	U		<1.7	U		<1.4	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U	
		VMP-16-5-042512	4/25/2012	<5.7	U		<5.7	U		<5.7	U		<4.7	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U		<3.8	U	
		VMP-16-5-073012	7/30/2012	<5.4	U		<5.4	U		<5.4	U		<4.4	U		<3.6	U		<3.6	U		<3.5	U		<3.5	U		<3.5	U	
		VMP-16-5-102512	10/25/2012	<4.2	U		<4.2	U		<4.2	U		<3.5	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	<15	U		<15	U		<15	U		<12	U		<10	U		<10	U		<9.8	U		<9.8	U		<9.8	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<15	U		<15	U		<15	U		<12	U		<10	U		<10	U		<9.8	U		<9.8	U		<9.8	U	
		VMP-16-13.5-112910	11/29/2010	<42	U		<42	U		<42	U		<35	U		<28	U		<28	U		<28	U		<28	U		<28	U	
		VMP-16-13.5-021611	2/16/2011	<8.1	U		<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U		<5.3	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-16-13.5-042211	4/22/2011	<8.5	U		<8.5	U		<8.5	U		<7	U		<5.7	U		<5.7	U		<5.6	U		<5.6	U		<5.6	U	
		VMP-16-13.5-080511	8/5/2011	<0 83	U	UJ	<0 83	U	UJ	<0 83	U	UJ	<0 68	U	UJ	<0 56	U	UJ	<0 56	U	UJ	<0 55	U	UJ	<0 55	U	UJ	<0 55	U	UJ
		VMP-16-13.5-042512	4/25/2012	<0 92	U		<0 92	U		<0 92	U		<0.75	U		<0 62	U		<0 62	U		<0.6	U		<0.6	U		<0.6	U	
		VMP-16-13.5-073012	7/30/2012	<28	U		<28	U		<28	U		<23	U		<18	U		<18	U		<18	U		<18	U		<18	U	
		VMP-16-13.5-102512	10/25/2012	<85	U		<85	U		<85	U		<70	U		<57	U		<57	U		<56	U		<56	U		<56	U	
	19 ft	VMP-16-19-090210	9/2/2010	<15	U		<15	U		<15	U		<12	U		<10	U		<10	U		<9.8	U		<9.8	U		<9.8	U	
		VMP-16-19-112910	11/29/2010	<32	U		<32	U		<32	U		<27	U		<22	U		<22	U		<21	U		<21	U		<21	U	
		VMP-16-19-021611	2/16/2011	<7.8	U		<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.2	U		<5.1	U		<5.1	U		<5.1	U	
		VMP-16-19-042711	4/27/2011	<7.9	U		<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		<5.2	U	
		VMP-16-19-042711-DUP	4/27/2011	<7.8	U		<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.2	U		<5.1	U		<5.1	U		<5.1	U	
		VMP-16-19-042512	4/25/2012	<21	U		<21	U		<21	U		<17	U		<14	U		<14	U		<14	U		<14	U		<14	U	
		VMP-16-19-073012	7/30/2012	<19	U		<19	U		<19	U		<16	U		<13	U		<13	U		<12	U		<12	U		<12	U	
		VMP-16-19-102512	10/25/2012	<79	U		<79	U		<79	U		<65	U		<53	U		<53	U		<52	U		<52	U		<52	U	
	31 ft	VMP-16-31-090310	9/3/2010	<0 0087	U		<0 0087	U		<0 0087	U		0.0018	J		<0 0058	U		<0 0058	U		<0 0057	U		<0.0057	U		<0.0057	U	
		VMP-16-31-112910	11/29/2010	<33	U		<33	U		<33	U		<27	U		<22	U		<22	U		<22	U		<22	U		<22	U	
		VMP-16-31-042512	4/25/2012	<26	U		<26	U		<26	U		<21	U		<17	U		<17	U		<17	U		<17	U		<17	U	
		VMP-16-31-073012	7/30/2012	<21	U		<21	U		<21	U		<17	U		<14	U		<14	U		<14	U		<14	U		<14	U	
		VMP-16-31-102512	10/25/2012	<99	U		<99	U		<99	U		<81	U		<66	U		<66	U		<65	U		<65	U		<65	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.008	U		<0.008	U		<0.008	U		0.0022	J		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-17-5-DUP	6/21/2010	<0.009	U		<0.009	U		<0.009	U		0 002	J		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-17-5-090110	9/1/2010	0 002	J		<0 0081	U		<0 0081	U		0.0026	J		<0 0054	U		<0 0054	U		<0 0053	U		<0.0053	U		<0.0053	U	
		VMP-17-5-112210	11/22/2010	<0 0081	U		<0 0081	U		<0 0081	U		0.0022	J		<0 0054	U		<0 0054	U		<0 0053	U		<0.0053	U		<0.0053	U	
		VMP-17-5-020711	2/7/2011	<0 0076	J	U	<0 0076	J	U	<0 0076	J	U	0.0013	J		<0 0051	U		<0 0051	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-17-5-040611	4/6/2011	<0 03	U		<0 03	U		<0 03	U		<0.025	U		<0 02	U		<0 02	U		<0 02	U		<0 02	U		<0 02	U	
		VMP-17-5-080111	8/1/2011	<0.12	U		<0.12	U		<0.12	U		<0.095	U		<0.078	U		<0.078	U		<0.076	U		<0.076	U		<0.076	U	
		VMP-17-5-110711	11/7/2011	<0 0051	U		<0 0051	J	U	<0 0051	J	U	0.0018	J		<0 0035	U		<0 0035	U		<0 0034	U		<0.0034	U		<0.0034	U	
		VMP-17-5-012612	1/26/2012	<0 0054	U		<0 0054	U		<0 0054	U		0.0022	J		<0 0036	U		<0 0036	U		<0 0035	U		0 0092			<0.0035	U	
		VMP-17-5-041112	4/11/2012	<0 0055	U		<0 0055	U		<0 0055	J	U	0.0017	J		<0 0037	U		<0 0037	U		<0 0036	U		<0 0036	U		<0.0036	U	
		VMP-17-5-071112	7/11/2012	<0 0059	U		<0 0059	U		<0 0059	U		0.0026	J		<0.004	U		<0.004	U		<0 0039	U		<0 0039	U		<0.0039	U	
		VMP-17-5-100912	10/9/2012	<0 0091	U		<0 0091	U		<0 0091	J	U	0.0021	J		<0 0061	U		<0 0061	U		<0.006	U		<0.006	U		<0.006	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.073	U		<0.073	U		<0.073	U		<0 06	U		<0.049	U		<0.049	U		<0.048	U		<0.048	U		<0.048	U	
		VMP-25-5-040811	4/8/2011	<0.033	J	U	<0.033	U		<0.033	U		<0.027	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U	
		VMP-25-5-080911	8/9/2011	<0.007	J	U	<0.007	J	U	<0.007	J	U	0.0025	J		<0 0047	U		0 0022	J		<0 0046	U		<0 0046	U		<0.0046	U	
		VMP-25-5-111711	11/17/2011	<0.005	U		<0.005	U		<0.005	U		0.0014	J	J	<0 0034	U		<0 0034	U		<0 0033	U		<0 0033	U		<0.0033	U	
		VMP-25-5-013112	1/31/2012	<0.037	U		<0.037	U		<0.037	U		<0 03	U		<0.025	U		<0.025	U		<0.024	U		<0.024	U		<0.024	U	
		VMP-25-5-042512	4/25/2012	<0 0057	U		<0 0057	U		<0 0057	J	U	0.0023	J		<0 0039	U		<0 0039	U		<0 0038	U		<0 0038	U		<0.0038	U	
		VMP-25-5-072612	7/26/2012	<0 02	U		<0 02	U		<0 02	J	U	<0.016	U		<0.013	U		<0.013	U		<0.013	U		<0.013	U		<0.013	U	
		VMP-25-5-102612	10/26/2012	<0 0081	U		<0 0081	U		<0 0081	U		<0 0066	U		<0 0054	U		<0 0054	U		<0 0053	U		<0 0053	U		<0 0053	U	
	21 ft	VMP-25-21-031511	3/15/2011	<14	U		<14	U		<14	U		<12	U		<9.6	U		<9.6	U		<9.4	U		<9.4	U		<9.4	U	
		VMP-25-21-031511-DUP	3/15/2011	<18	U		<18	U		<18	U		<15	U		<12	U		<12	U		<12	U		<12	U		<12	U	
		VMP-25-21-040811	4/8/2011	22	J		<150	U		<150	U		<120	U		<100	U		<100	U		<100	U		<100	U		<100	U	
		VMP-25-21-040811-DUP	4/8/2011	<150	U		<150	U		<150	U		<130	U		<100	U		<100	U		<100	U		<100	U		<100	U	
		VMP-25-21-080911	8/9/2011	<50	U		<50	U		<50	U		<41	U		<33	U		<33	U		22	J		11	J		<33	U	
		VMP-25-21-111711	11/17/2011	<68	U		<68	U		<68	U		<56	U	UJ	<46	U		<46	U		<45	U		<45	U		<45	U	
		VMP-25-21-111711-DUP	11/17/2011	<100	U		<100	U		<100	U		<82	U	UJ	<67	U		<67	U		<66	U		<66	U		<66	U	
		VMP-25-21-013112	1/31/2012	<35	U		<35	U		<35	U		<29	U		<24	U		<24	U		<23	U		<23	U		<23	U	
		VMP-25-21-013112-DUP	2/1/2012	<33	U		<33	U		<33	U		<27	U		<22	U		<22	U		<22	U		<22	U		<22	U	
		VMP-25-21-042512	4/25/2012	<22	U		<22	U		<22	U		<18	U		<15	U		<15	U		<15	U		<15	U		<15	U	
		VMP-25-21-072612	7/26/2012	<38	U		<38	U		<38	U		<31	U		<26	U		<25	U		<25	U		<25	U		<25	U	
		VMP-25-21-102612	10/26/2012	<230	U		<230	U		<230	U		<190	U		<150	U		<150	U		<150	U		<150	U		<150	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	<0 064	U		<0.064	U		<0.064	U		<0.052	U		<0.043	U		<0.043	U		<0.042	U		<0.042	U		<0.042	U	
		VMP-29-10-100812	10/8/2012	<0.11	U		<0.11	U		<0.11	U		<0.093	U		<0.076	U		<0.076	U		<0.074	U		<0.074	U		<0.074	U	
	20 ft	VMP-29-20-073012	7/30/2012	<0.75	U		<0.75	U		<0.75	U		<0 62	U		<0 51	U		<0 51	U		<0.5	U		<0.5	U		<0.5	U	
		VMP-29-20-073012-Dup	7/30/2012	<0.7	U		<0.7	U		<0.7	U		<0 58	U		<0.47	U		<0.47	U		<0.46	U		<0.46	U		<0.46	U	
		VMP-29-20-100812	10/8/2012	<0.11	U		<0.11	U		<0.11	U		<0.093	U		<0.076	U		<0.076	U		<0.074	U		<0.074	U		<0.074	U	
	30 ft	VMP-29-30-073012	7/30/2012	<0.12	U		<0.12	U		<0.12	U		<0.1	U		<0.083	U		<0.083	U		<0.082	U		<0.082	U		<0.082	U	
		VMP-29-30-100812	10/8/2012	<0 56	U		<0 56	U		0 059	J		<0.46	U		<0 37	U		<0 37	U		<0 37	U		<0 37	U		<0 37	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene		
				1700						6800						4200			0.81			1600			1100000			510		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	<0 22	U		<0 22	U		<0 22	U		<0.18	U		<0.15	U		<0.15	U		<0.15	U		<0.15	U		<0.15	U	
		VMP-30-10-100812	10/8/2012	<0 0085	U		<0 0085	U		<0 0085	U		0.0022	J		<0 0057	U		<0 0057	U		<0 0056	U		<0.0056	U		<0.0056	U	
	20 ft	VMP-30-20-073012	7/30/2012	<0 96	U		<0 96	U		<0 96	U		<0.79	U		<0 64	U		<0 64	U		<0 63	U		<0 63	U		<0 63	U	
		VMP-30-20-100812	10/8/2012	<0 35	U		<0 35	U		0 034	J		<0 29	U		<0 23	U		<0 23	U		<0 23	U		<0 23	U		<0 23	U	
	30 ft	VMP-30-30-073012	7/30/2012	<0 98	U		<0 98	U		<0 98	U		<0 81	U		<0 66	U		<0 66	U		<0 65	U		<0 65	U		<0 65	U	
		VMP-30-30-100812	10/8/2012	<0.72	U		<0.72	U		<0.72	U		<0.6	U		<0.49	U		<0.49	U		<0.48	U		<0.48	U		<0.48	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	<0 0073	U		<0 0073	U		<0 0073	U		<0.006	U		<0 0049	U		<0 0049	U		<0 0048	U		<0.0048	U		<0.0048	U	
		VMP-41-10-100912	10/9/2012	<0 0089	U		<0 0089	U		<0 0089	U		0.0032	J		<0.006	U		<0.006	U		<0 0059	U		<0.0059	U		<0.0059	U	
	20 ft	VMP-41-20-072712	7/27/2012	<0 0056	U		<0 0056	U		<0 0056	U		0 003	J		<0 0038	U		<0 0038	U		<0 0037	U		<0 0037	U		<0 0037	U	
		VMP-41-20-072712-Dup	7/27/2012	<0 0057	U		<0 0057	U		<0 0057	U		0.0032	J		<0 0039	U		<0 0039	U		<0 0038	U		<0 0038	U		<0 0038	U	
		VMP-41-20-100912	10/9/2012	<0 0087	U		<0 0087	U		<0 0087	U		0.0026	J		<0 0058	U		<0 0058	U		<0 0057	U		<0 0057	U		<0.0057	U	
		VMP-41-20-100912-Dup	10/9/2012	<0 0089	U		<0 0089	J	U	<0 0089	J	U	0.0028	J		<0.006	U		<0.006	U		<0 0059	U		<0 0059	U		<0.0059	U	
	30 ft	VMP-41-30-072712	7/27/2012	<0 0057	U		<0 0057	U		<0 0057	U		0 003	J		<0 0039	U		<0 0039	U		<0 0038	U		<0 0038	U		<0 0038	U	
		VMP-41-30-100912	10/9/2012	<0 0093	U		<0 0093	U		<0 0093	J	U	0.0031	J		<0 0063	U		<0 0063	U		<0 0062	U		<0 0062	U		<0.0062	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				45			0.46			6.2			6.2			2.3						8300								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	<0 0046	U		<0 0061	U		<0.006	U		<0.006	U		<0.019	U		0.015			0.009			0 0072			<0 01	U	
		VMP-10-5-111810	11/17/2010	<0 0042	U		<0 0056	U		<0 0055	U		<0 0055	U		<0.017	U		0.004	J		0 0014	J		<0.0059	U		<0.0093	U	
		VMP-10-5-021011	2/10/2011	<0 0041	U		<0 0055	U		<0 0054	U		<0 0054	U		<0.017	U		<0.009	U		0 0029	J		0 0013	J		<0.0091	U	
		VMP-10-5-040511	4/5/2011	<0 0038	J	U	<0 0051	U		<0.005	U		<0.005	U		<0.016	U		0.028			0 0018	J		0.005	J		<0.0084	U	
		VMP-10-5-07/2911	7/29/2011	0 00098	J		<0 0062	U		<0 0061	U		<0 0061	U		0.041			0.05			0 0012	J		<0.0066	J	U	<0 01	U	
		VMP-10-5-110411	11/4/2011	0.0014	J		<0 0032	U		<0 0032	U		<0 0032	U		<0 01	U		0.011			0.00086	J		<0.0034	J	U	<0.0053	U	
		VMP-10-5-012512	1/26/2012	0.0014	J		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.017			<0 0038	U		<0.0043	U		<0.0067	U	
		VMP-10-5-041212	4/12/2012	<0.033	J	U	<0 0043	U		<0 0043	U		<0 0043	U		<0.014	U		0.025			0.00077	J		<0.0046	U		<0.0072	U	
		VMP-10-5-071312	7/13/2012	<0.034	J	U	<0 0044	U		<0 0044	U		<0 0044	U		<0.014	U		0 0029	J		<0 0042	J	U	<0.0047	U		<0.0074	U	
		VMP-10-5-101612	10/16/2012	<0.053	U		<0.007	U		<0 0069	U		<0 0069	U		<0.022	U		<0.011	U		<0 0066	U		<0.0074	U		<0.012	U	
	10 ft	VMP-10-10-090710	9/7/2010	<0 0046	U		<0 0061	U		<0.006	U		<0.006	U		0 0077	J		0 0079	J		<0 0057	U		<0.0065	U		<0 01	U	
		VMP-10-10-111810	11/17/2010	0 001	J		<0.006	U		<0 0058	U		<0 0058	U		0 0042	J		0 0096	J		0 0014	J		<0.0063	U		<0.0099	U	
		VMP-10-10-021111	2/11/2011	<0 0035	U		<0 0047	U		<0 0046	U		<0 0046	U		<0.014	U		0.1			0 0017	J		<0.005	J	U	<0.0077	U	
		VMP-10-10-040611	4/6/2011	0 016			<0 0061	U		<0.006	J	U	<0.006	J	U	<0.019	U		0.013			0.00094	J		<0.0065	J	U	<0 01	U	
		VMP-10-10-072911	7/29/2011	<0 0048	J	U	<0 0064	U		<0 0063	U		<0 0063	U		0.017	J		0.029			0 0024	J		<0.0068	J	U	<0 01	U	
		VMP-10-10-110411	11/4/2011	0 002	J		<0 0041	U		<0 0041	U		<0 0041	U		0 0025	J		0 0095			0.00097	J		0 0021	J		<0.0068	U	
		VMP-10-10-110411-DUP	11/4/2011	0 002	J		0 00064	J		<0 0041	U		<0 0041	U		<0.013	U		0.016			0.00091	J		0 0019	J		<0.0068	U	
		VMP-10-10-012512	1/26/2012	0.0035			<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.028		J	<0 0038	U		<0.0043	U		<0.0067	U	
		VMP-10-10-012512-DUP	1/26/2012	0.0025	J		<0 0042	U		<0 0042	U		<0 0042	U		<0.013	U		0.013		J	<0.004	U		0 0011	J		<0.007	U	
		VMP-10-10-041112	4/11/2012	0.0028	J		0 00091	J		<0 0043	U		<0 0043	U		<0.014	U		0.051			0 0029	J		<0.0047	J	U	<0.0073	U	
		VMP-10-10-071312	7/13/2012	<0.033	J	U	<0 0043	U		<0 0043	U		<0 0043	U		<0.014	U		0.038			<0 0041	U		<0.0046	U		<0.0072	J	U
		VMP-10-10-101612	10/16/2012	<0.055	U		<0 0073	U		<0 0072	U		<0 0072	U		<0.023	U		<0.012	U		0 0032	J		<0.0078	U		<0.012	U	
	20 ft	VMP-10-20-090710	9/7/2010	<0 0048	J	U	<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0.012		J	0.002	J		<0.0068	U		<0 01	U	
		VMP-10-20-090710-DUP	9/7/2010	<0.026		U	<0.006	U		<0 0058	U		<0 0058	U		<0.018	U		0.048		J	0 0017	J		<0.0063	U		<0.0099	U	
		VMP-10-20-111810	11/17/2010	<0 0085	U		<0.011	U		<0.011	U		<0.011	U		<0.035	U		0 0097	J		<0.011	U		<0.012	U		<0.019	U	
		VMP-10-20-111810-Dup	11/17/2010	0.0026	J		<0 0057	U		<0 0056	U		<0 0056	U		<0.018	U		0.017			0 0015	J		<0.0061	U		<0.0095	U	
		VMP-10-20-021111	2/11/2011	<0 0042	U		<0 0056	U		<0 0055	U		<0 0055	U		<0.018	U		0.018			<0 0053	U		<0.006	U		<0.0094	U	
		VMP-10-20-040611	4/6/2011	0.0068			<0 0068	U		<0 0067	U		<0 0067	J	U	<0.021	U		0.05			0 0026	J		<0.0072	J	U	<0.011	U	
		VMP-10-20-072911	7/29/2011	<0 0047	U		<0 0063	U		<0 0062	U		<0 0062	U		<0 02	U		0.062			0 0014	J		0 0013	J		<0 01	U	
		VMP-10-20-110411	11/4/2011	0.0017	J		<0 0041	U		<0 0041	U		<0 0041	U		<0.013	U		0.085			0.00094	J		0 0015	J		<0.0068	U	
		VMP-10-20-012612	1/26/2012	0 00031	J		<0 0039	U		<0 0038	U		<0 0038	U		<0.012	U		0 0046	J		<0 0036	U		<0.0041	U		<0.0064	U	
		VMP-10-20-041212	4/12/2012	<0.033	J	U	<0 0043	U		<0 0043	U		<0 0043	U		<0.014	U		0.011			0.00093	J		<0.0046	U		<0.0072	U	
		VMP-10-20-071612	7/16/2012	<0.031	J	U	<0 0041	U		<0 0041	U		<0 0041	U		0.02			0 0024	J		<0 0039	J	U	<0.0044	U		<0.0068	U	
		VMP-10-20-101612	10/16/2012	<0.055	U		<0 0074	U		<0 0072	U		<0 0072	U		<0.023	U		0 0056	J		<0 0069	U		0 0067	J		<0.012	U	
	30 ft	VMP-10-30-041212	4/12/2012	<0.034	U		<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.04			0 0016	J		<0.0048	U		<0.0075	U	
		VMP-10-30-071612	7/16/2012	<0 03	J	U	<0.004	U		<0 0039	U		<0 0039	U		<0.012	U		<0 0065	U		<0 0038	J	U	0 0011	J		<0.0066	U	
		VMP-10-30-101612	10/16/2012	0.0053	J		<0 0069	U		<0 0068	U		<0 0068	U		<0.022	U		0.022			<0 0065	U		<0.0074	U		<0.011	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	<0 0043	U		<0 0057	U		<0 0056	U		<0 0056	U		<0.018	U		0 0099			0 0019	J		<0.0061	U		<0.0095	U	
		VMP-11-5-112210	11/22/2010	<0 0045	U		<0.006	U		<0 0058	U		<0 0058	U		<0.018	U		0.011			0 0021	J		<0.0063	U		<0.0099	U	
		VMP-11-5-021511	2/15/2011	0.0011	J		<0 0053	U		<0 0052	U		<0 0052	U		<0.016	U		0.017			0 0055			<0.0056	J	U	<0.0087	U	
		VMP-11-5-040611	4/6/2011	0.0086	J		<0 05	U		<0.049	U		<0.049	U		<0.16	U		<0.081	U		<0.047	U		<0.053	U		<0.083	U	
		VMP-11-5-080711	8/7/2011	<0.052	U		<0.069	U		<0.067	U		<0.067	U		<0 21	U		0.046	J		<0.064	U		<0.073	U		<0.11	U	
		VMP-11-5-111111	11/11/2011	<0 01	J	U	<0.014	U		<0.013	U		<0.013	U		<0.042	U		<0.022	U		<0.013	U		<0.014	U		<0.022	U	
		VMP-11-5-012612	1/26/2012	0.0072			<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.022			0.00096	J		<0.0043	U		<0.0067	U	
		VMP-11-5-041912	4/19/2012	<0.034	J	U	<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.037		J	0 0034	J		<0.0048	U		<0.0075	U	
		VMP-11-5-071912	7/16/2012	<0.044	J	U	<0 0059	U		<0 0058	U		<0 0058	U		<0.018	U		0.006	J		<0 0055	U		<0.0062	U		<0.0097	U	
		VMP-11-5-101612	10/16/2012	0.0082	J		<0 0065	U		<0 0064	U		<0 0064	U		<0 02	U		0.012			<0 0061	U		<0.007	U		<0.011	U	
	8 ft	VMP-11-8-090810	9/8/2010	0 047			<0.006	U		<0 0058	U		<0 0058	U		<0.018	U		0.013			<0 0056	U		<0.0063	U		<0.0099	U	
		VMP-11-8-112210	11/22/2010	<0 0045	U		<0.006	U		<0 0058	U		<0 0058	U		<0.018	U		0 0056	J		0 0016	J		<0.0063	U		<0.0099	U	
		VMP-11-8-021111	2/11/2011	<0 0043	U		<0 0058	U		<0 0057	U		<0 0057	U		<0.018	U		0.036			<0 0054	U		<0.0061	U		<0.0096	U	
		VMP-11-8-021111-DUP	2/11/2011	<0 0041	U		<0 0054	U		<0 0053	U		<0 0053	U		<0.017	U		0.016			<0 0051	U		<0.0058	U		<0.009	U	
		VMP-11-8-040611	4/6/2011	<0.019	U		<0.026	U		<0.025	U		<0.025	U		<0 08	U		<0.042	U		<0.024	U		<0.027	U		<0.042	U	
		VMP-11-8-040611-DUP	4/6/2011	0.0027	J		<0.022	U		<0.022	U		<0.022	U		<0.069	U		<0.036	U		<0.021	U		<0.024	U		<0.037	U	
		VMP-11-8-080711	8/7/2011	<0.052	U		<0.069	U		<0.067	U		<0.067	U		<0 21	U		0.14			<0.064	U		<0.073	U		<0.11	U	
		VMP-11-8-111411	11/14/2011	<0.003	J	U	<0 0041	U		<0.004	U		<0.004	U		<0.013	U		0.043			0 0013	J		0.00086	J		<0.0067	U	
		VMP-11-8-012612	1/26/2012	0.0029	J		<0.004	U		<0 0039	U		<0 0039	U		<0.012	U		0.019			<0 0037	U		<0.0042	U		<0.0066	U	
		VMP-11-8-041912	4/19/2012	<0.034	J	U	<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.052		J	0 0024	J		<0.0048	U		<0.0075	U	
		VMP-11-8-072012	7/20/2012	0.0047	J		<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.025			<0 0042	U		<0.0048	U		<0.0075	U	
		VMP-11-8-101612	10/16/2012	0.0093	J		<0 0066	U		<0 0065	U		<0 0065	U		<0.021	U		0.047			<0 0062	U		<0.007	U		<0.011	U	
		VMP-11-8-101612-Dup	10/16/2012	<0 05	J	U	<0 0067	U		<0 0066	U		<0 0066	U		<0.021	U		0.041			<0 0063	U		<0.0071	U		<0.011	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0.11	U		<0.15	U		<0.15	U		<0.15	U		<0.46	U		<0 24	U		0.033	J		0 26			<0 25	U	
		VMP-11-29-112210	11/22/2010	<1.6	U		<2.1	U		<2.1	U		<2.1	U		<6.6	U		<3.5	U		<2	U		<2.3	U		<3.5	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.1	U		<1.5	U		<1.4	U		<1.4	U		<4.6	U		<2.4	U		<1.4	U		<1.6	U		<2.4	U	
		VMP-11-29-021411	2/14/2011	<0 0043	U		<0 0058	U		<0 0057	U		<0 0057	U		<0.018	U		0.018			0 0015	J		<0.0061	J	U	<0.0096	U	
		VMP-11-29-040611	4/6/2011	<0.033	U		<0.044	U		<0.043	U		<0.043	U		<0.14	U		<0.071	U		<0.041	U		<0.046	U		<0.072	U	
		VMP-11-29-082511	8/25/2011	0.0021	J		<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0.013			0 0014	J		0 0017	J	J	<0 01	U	
		VMP-11-29-082511-Dup	8/25/2011	<0 0048	J	U	<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0.016			0 0012	J		0 0018	J	J	<0 01	U	
		VMP-11-29-111411	11/14/2011	<0.003	J	U	<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.026			0.00086	J		<0.0043	U		<0.0067	U	
		VMP-11-29-012612	1/26/2012	<0 0029	U		<0 0039	U		<0 0038	U		<0 0038	U		<0.012	U		0.031			<0 0036	U		<0.0041	U		<0.0064	U	
		VMP-11-29-042712	4/27/2012	0.0021	J		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.018			0.002	J		<0.0043	U		<0.0067	U	
		VMP-11-29-072012	7/23/2012	0 002	J		<0.004	U		<0.004	U		<0.004	U		<0.013	U		0.1			0.01			0 0017	J		<0.0067	U	
		VMP-11-29-101612	10/16/2012	<0.051	U		<0 0068	U		<0 0067	U		<0 0067	U		<0.021	U		0 0051	J		<0 0064	U		<0.0073	U		<0.011	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0 23	U		<0.3	U		<0.3	U		<0.3	U		<0 94	U		<0.49	U		0.031	J		<0 32	U		<0.5	U	
		VMP-11-38-042312-Dup	4/23/2012	<0.8	U		<1	U		<1	U		<1	U		<3.3	U		<1.7	U		<0 99	U		<1.1	U		<1.8	U	
		VMP-11-38-072312	7/23/2012	<0 38	U		<0.5	U		<0.49	U		<0.49	U		<1.6	U		<0 82	U		<0.47	U		<0 53	U		<0 83	U	
		VMP-11-38-101612	10/16/2012	<0.052	U		<0 0069	U		<0 0068	U		<0 0068	U		<0.022	U		0.005	J		<0 0065	U		<0.0074	U		<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				45			0.46			6.2			6.2			2.3						8300								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<4.7	U		<6.2	U		<6.1	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U		<10	U	
		VMP-12-5-120310	12/3/2010	<46	U		<61	U		<60	U		<60	U		<190	U		<100	U		<58	U		<65	U		<100	U	
		VMP-12-5-021511	2/15/2011	<2.1	U		<2.8	U		<2.8	U		<2.8	U		<8.8	U		<4.6	U		<2.6	U		<3	U		<4.7	U	
		VMP-12-5-041911	4/19/2011	<16	U	UJ	<21	U		<20	U		<20	U		<64	U		5 2	J		<19	U		<22	U		<34	U	
		VMP-12-5-080411	8/4/2011	<4	U		<5.3	U		<5.2	U		<5.2	U		<17	U		<8.7	U		<5	U		<5.7	U		<8.8	U	
		VMP-12-5-111611	11/16/2011	0.0026	J		<0 0038	U		<0 0037	U		<0 0037	U		<0.012	U		0.015			0.00074	J		<0.004	U		<0.0062	U	
		VMP-12-5-012412	1/24/2012	0 011	J		<0.042	U		<0.042	U		<0.042	U		<0.13	U		<0.069	J	U	0 0036	J		0 0078	J		<0 07	U	
		VMP-12-5-041912	4/19/2012	<0.032	J	U	<0 0042	U		<0 0042	U		<0 0042	U		<0.013	U		0 0088		J	0 0056			0 0012	J		<0.007	U	
		VMP-12-5-072612	7/26/2012	0.0074	J		<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.017			0 0029	J		<0.0048	U		<0.0075	U	
		VMP-12-5-072612-Dup	7/26/2012	0 045			<0 0041	U		<0.004	U		<0.004	U		<0.013	U		0.013			<0 0039	U		<0.0044	U		<0.0068	U	
		VMP-12-5-102412	10/24/2012	<0.052	U		<0 0069	U		<0 0068	U		<0 0068	U		<0.022	U		0.01	J		0 0016	J		<0.0074	U		<0 011	U	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<6	U		<8	U		<7.8	U		<7.8	U		<25	U		<13	U		5.4	J		<8.5	U		<13	U	
		VMP-12-11.5-120310	12/3/2010	<5.2	U		<6.9	U		<6.8	U		<6.8	U		<22	U		<11	U		<6.5	U		<7.3	U		<11	U	
		VMP-12-11.5-021511	2/15/2011	<4.6	U		<6.2	U		<6.1	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U		<10	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<4	U		<5.3	U		<5.2	U		<5.2	U		<17	U		<8.7	U		<5	U		<5.7	U		<8.8	U	
		VMP-12-11.5-041911	4/19/2011	<14	U	UJ	<19	U		<18	U		<18	U		<58	U		<30	U		<18	U		<20	U		<31	U	
		VMP-12-11.5-080411	8/4/2011	<4.9	U		<6.5	U		<6.4	U		<6.4	U		<20	U		<11	U		<6.1	U		<6.9	U		<11	U	
		VMP-12-11.5-111611	11/16/2011	<0.039	U		<0.052	U		<0.051	U		<0.051	U		<0.16	U		0 02	J		<0.049	U		<0.055	U		<0 086	U	
		VMP-12-11.5-012412	1/24/2012	0 096	J		<0.48	U		<0.48	U		<0.48	U		<1.5	U		<0.79	U		<0.46	U		<0 52	U		<0.8	U	
		VMP-12-11.5-041912	4/19/2012	0.0081	J		<0.044	U		<0.043	U		<0.043	U		<0.14	U		<0.072	U		0.005	J		<0.047	U		<0 073	U	
		VMP-12-11.5-082012	8/20/2012	0.0016	J		<0.007	U		<0 0069	U		<0 0069	U		<0.022	U		0.045		J	0 0029	J		<0.0074	U		<0 012	U	
		VMP-12-11.5-102612	10/26/2012	<0 05	U		<0 0067	U		<0 0066	U		<0 0066	U		<0.021	U		0.025			<0 0063	U		<0.0071	U		<0 011	U	
	25 ft	VMP-12-25-090310	9/3/2010	<7.6	U		<10	U		<10	U		<10	U		<32	U		<16	U		14			<11	U		<17	U	
		VMP-12-25-120310	12/3/2010	<0 38	U		<0.5	U		<0.49	U		<0.49	U		<1.6	U		<0 82	U		<0.47	U		<0 54	U		<0 84	U	
		VMP-12-25-021511	2/15/2011	<9.2	U		<12	U		<12	U		<12	U		<38	U		<20	U		4.1	J		<13	U		<20	U	
		VMP-12-25-041911	4/19/2011	<15	U	UJ	<20	U		<20	U		<20	U		<63	U		<33	U		<19	U		<21	U		<33	U	
		VMP-12-25-080411	8/4/2011	<9.6	U		<13	U		<12	U		<12	U		<40	U		<21	U		<12	U		<14	U		<21	U	
		VMP-12-25-111611	11/16/2011	9 6	J		<14	U		<14	U		<14	U		<45	U		<24	U		<14	U		<15	U		<24	U	
		VMP-12-25-012412	1/24/2012	<4.2	U		<5.5	U		<5.4	U		<5.4	U		<17	U		<9	U		<5.2	U		<5.9	U		<9.2	U	
		VMP-12-25-012412-DUP	1/24/2012	5 8	J		<40	U		<40	U		<40	U		<130	U		<66	U		<38	U		<43	U		<67	U	
		VMP-12-25-041912	4/19/2012	3 3			<4.2	U		<4.2	U		<4.2	U		<13	U		<6.9	U		<4	U		<4.5	U		<7	U	
		VMP-12-25-072712	7/27/2012	1	J		<4.6	U		<4.6	U		<4.6	U		<14	U		<7.6	U		<4.4	U		<4.9	U		<7.7	U	
		VMP-12-25-072712-Dup	7/27/2012	0.49	J		<4.6	U		<4.6	U		<4.6	U		<14	U		<7.6	U		<4.4	U		<4.9	U		<7.7	U	
		VMP-12-25-102512	10/25/2012	0.16	J		<2	U		<2	U		<2	U		<6.2	U		<3.2	U		<1.9	U		<2.1	U		<3.3	U	
	39 ft	VMP-12-39-041911	4/19/2011	<15	U	UJ	<19	U		<19	U		<19	U		<61	U		<32	U		10	J		<21	U		<32	U	
		VMP-12-39-012412	1/24/2012	6.4	J		<40	U		<40	U		<40	U		<130	U		<66	U		3 5	J		<43	U		<67	U	
		VMP-12-39-041912	4/19/2012	3 8	J		<20	U		<20	U		<20	U		<63	U		<33	U		3	J		<22	U		<34	U	
		VMP-12-39-072612	7/26/2012	2.7	J		<9.3	U		<9.1	U		<9.1	U		<29	U		<15	U		<8.7	U		<9.9	U		<15	U	
		VMP-12-39-102412	10/24/2012	7.1	J		<24	U		<24	U		<24	U		<76	U		<40	U		4 6	J		<26	U		<41	U	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	<0 03	U		<0.041	U		<0 04	U		<0 04	U		<0.13	U		0.24			<0.038	U		<0.043	U		<0 067	U	
		VMP-13-5-120110	12/1/2010	<0.004	U		<0 0054	U		<0 0053	U		<0 0053	U		<0.017	U		0.007	J		0.047			0.032			<0.0089	U	
		VMP-13-5-021811	2/18/2011	<0 0048	U		<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0.024			<0.006	U		<0.0068	U		<0 01	U	
		VMP-13-5-040511	4/5/2011	0.0082	J		<0.013	U		<0.012	U		<0.012	U		<0 04	U		0 0054	J		<0.012	U		<0.014	U		<0 021	U	
		VMP-13-5-080911	8/9/2011	0.0085	J		<0.014	U		<0.013	U		<0.013	U		<0.043	U		0.063		J	0 0025	J		0 0019	J		<0.023	U	
		VMP-13-5-080911-DUP	8/9/2011	0 004	J		<0.012	U		<0.012	U		<0.012	U		<0.038	U		0.14		J	0 0021	J		<0.013	U		<0 02	U	
		VMP-13-5-111411	11/14/2011	<0 0032	J	U	<0 0042	U		<0 0042	U		<0 0042	U		<0.013	U		0.027			0.00094	J		<0.0045	U		<0.007	U	
		VMP-13-5-012712	1/27/2012	0.0072	J	J	<0.036	U		<0.035	U		<0.035	U		<0.11	U		0.014	J	J	0 0044	J	J	<0.038	U		<0.059	U	
		VMP-13-5-042012	4/20/2012	<0.031	U		<0 0041	U		<0 0041	U		<0 0041	U		<0.013	U		0.022			0 0013	J		<0.0044	U		<0.0068	U	
		VMP-13-5-071912	7/19/2012	<0.032	J	U	<0 0043	U		<0 0042	U		<0 0042	U		<0.013	U		0.056			0 0044			0 0045	J		<0.0072	U	
		VMP-13-5-071912-Dup	7/19/2012	<0.032	J	U	<0 0043	U		<0 0042	U		<0 0042	J	U	<0.013	U		0.052			0 0036	J		0.004	J		<0.0072	U	
		VMP-13-5-100912	10/9/2012	0.0028	J		<0 0067	U		<0 0066	U		<0 0066	J	U	<0.021	U		<0.011	U		<0 0063	U		<0.0071	U		<0 011	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	<0.011	U		<0.015	U		<0.015	U		<0.015	U		<0.047	U		<0.024	U		<0.014	U		<0.016	U		<0.025	U	
		VMP 13-10 5-091310-Dup	9/13/2010	<0.011	U		<0.015	U		<0.014	U		<0.014	U		0.041	J		0.014	J		<0.014	U		<0.016	U		<0.024	U	
		VMP-13-10.5-120110	12/1/2010	<0 0045	U		<0.006	U		<0 0059	U		<0 0059	U		<0.019	U		<0 0098	U		<0 0056	J	U	<0.0064	U		<0.0099	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0 0047	U		<0 0062	U		<0 0061	U		<0 0061	U		<0.019	U		0.016			<0 0059	U		<0.0066	U		<0 01	U	
		VMP-13-10.5-021811	2/18/2011	<1.8	U		<2.5	U		<2.4	U		<2.4	U		<7.7	U		<4	U		<2.3	U		<2.6	U		<4.1	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<1.8	U		<2.4	U		<2.3	U		<2.3	U		<7.4	U		<3.9	U		<2.2	U		<2.5	U		<3.9	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0 0048	J	U	<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0 0077	J		<0.006	U		<0.0068	U		<0 01	U	
		VMP-13-10.5-080911	8/9/2011	<0.1	U		<0.14	U		<0.14	U		<0.14	U		<0.44	U		<0 23	U		<0.13	U		<0.15	U		<0 23	U	
		VMP-13-10.5-111411	11/14/2011	0.0044			<0 0041	U		<0.004	U		<0.004	U		<0.013	U		0.053			0 0012	J		0.00071	J		<0.0067	U	
		VMP-13-10.5-012712	1/26/2012	<0 0085	U		<0.011	U		<0.011	U		<0.011	U		<0.035	U		0 0084	J		<0.011	U		<0.012	U		<0.019	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.012	U		<0.016	U		<0.016	U		<0.016	U		<0 05	U		<0.026	U		<0.015	U		<0.017	U		<0.027	U	
		VMP-13-10.5-042012	4/20/2012	0.0016	J		0.0011	J		<0.004	U		0.00098	J		<0.013	U		0.022		J	0 0016	J		0.00096	J		<0.0067	U	
		VMP-13-10.5-071912	7/19/2012	<0.032	J	U	<0 0043	U		<0 0042	U		<0 0042	U		<0.013	U		0.038			0.002	J		0 0021	J		<0.0072	U	
		VMP-13-10.5-100912	10/9/2012	0.0022	J		<0 0057	U		<0 0056	U		<0 0056	U		<0.018	U		0.022		J	<0 0054	U		0 0031	J		<0.0095	U	
		VMP-13-10.5-100912-Dup	10/9/2012	0.0043	J		<0 0068	U		<0 0067	U		<0 0067	U		<0.021	U		<0.011	U	UJ	<0 0064	U		<0.0073	U		<0.011	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	9 2			<11	U		<11	U		<11	U		<35	U		<18	U		<10	U		<12	U		<18	U	
		VMP-13-21.5-120110	12/1/2010	28			<22	U		<21	U		<21	U		<68	U		<35	U		<20	U		<23	U		<36	U	
		VMP-13-21.5-021811	2/18/2011	0.51	J		<3.2	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3	U		<3.4	U		<5.4	U	
		VMP-13-21.5-040511	4/5/2011	2 3	J		<4.7	U		<4.6	U		<4.6	U		<14	U		<7.6	U		<4.4	U		<5	U		<7.7	U	
		VMP-13-21.5-080911	8/9/2011	<0.44	U		<0 58	U		<0 57	U		<0 57	U		<1.8	U		<0 95	U		0.38	J		<0 62	U		<0 96	U	
		VMP-13-21.5-111411	11/14/2011	<2	U		<2.6	U		<2.6	U		<2.6	U		<8.3	U		<4.3	U		<2.5	U		<2.8	U		<4.4	U	
		VMP-13-21.5-111411-DUP	11/14/2011	<2	U		<2.6	U		<2.6	U		<2.6	U		<8.3	U		<4.3	U		<2.5	U		<2.8	U		<4.4	U	
		VMP-13-21.5-012712	1/27/2012	0 094	J	J	<0 62	U		<0 61	U		<0 61	U		<1.9	U		<1	U		0.13	J	J	<0 66	U		<1	U	
		VMP-13-21.5-042012	4/20/2012	0 028	J		0 015	J		<0.068	U		<0.068	U		<0 21	U		0.077	J		0.016	J		<0.073	U		<0.11	U	
		VMP-13-21.5-071912	7/19/2012	0.0044	J		0 00065	J		<0 0042	U		<0 0042	U		<0.013	U		0.071			0 0024	J		0 0015	J		<0.0072	U	
		VMP-13-21.5-100912	10/9/2012	0.0012	J		<0.007	U		<0 0069	U		<0 0069	U		0.011	J		<0.011	U		<0 0066	U		<0.0074	U		<0 012	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<75	U		<100	U		<98	U		<98	U		<310	U		<160	U		<94	U		<110	U		<160	U	
		VMP-13-29.5-040511	4/5/2011	<49	U		<65	U		<64	U		<64	U		<200	U		<100	U		20	J		<69	U		<110	U	
		VMP-13-29.5-013012	1/30/2012	<1.5	U		<2	U		<1.9	U		<1.9	U		<6.2	U		<3.2	U		4 5		J	0.48	J	J	<3.3	U	
		VMP-13-29.5-042012	4/20/2012	0.59	J		<2.6	U		<2.5	U		<2.5	U		<8.1	U		<4.2	U		0 94	J		<2.8	U		<4.3	U	
		VMP-13-29.5-071912	7/19/2012	<5.6	U		<7.4	U		<7.3	U		<7.3	U		<23	U		<12	U		<7	U		<7.9	U		<12	U	
		VMP-13-29.5-100912	10/9/2012	<5.3	U		<7	U		<6.9	U		<6.9	U		<22	U		15			1 3	J		<7.4	U		<12	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				45			0.46			6.2			6.2			2.3						8300								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0 22	U		<0 29	U		<0 28	U		<0 28	U		<0 89	U		<0.47	U		<0 27	U		<0.3	U		<0.48	U	
		VMP-14-5-120110	12/1/2010	<0 0042	U		<0 0055	U		<0 0054	U		<0 054	U		<0.017	U		0 0085	J		<0 0052	U		<0.0059	U		<0.0092	U	
		VMP-14-5-021711	2/17/2011	<0 0046	U		<0 0061	U		<0.006	U		<0.006	U		<0.019	U		0.026	J	J	0 0029	J		<0.0065	U		<0 01	U	
		VMP-14-5-040511	4/5/2011	0.0022	J		<0 0062	U		<0 0061	U		<0 0061	U		<0.019	U		0.012			<0 0058	U		<0.0066	U		<0 01	U	
		VMP-14-5-080811	8/8/2011	<4.9	U		<6.5	U		<6.4	U		<6.4	U		<20	U		<10	U		<6.1	U		<6.9	U		<11	U	
		VMP-14-5-111411	11/14/2011	<0.012	U		<0.016	U		<0.016	U		<0.016	U		<0.051	U		<0.026	U		<0.015	U		<0.017	U		<0.027	U	
		VMP-14-5-042012	4/20/2012	<0 03	J	U	<0.004	U		<0 0039	U		0.00099	J		<0.012	U		0.024			0 0019	J		<0.0042	U		<0.0066	U	
		VMP-14-5-072312	7/23/2012	0 003	J		<0 0048	U		<0 0047	U		<0 0047	U		<0.015	U		0 3			0 0078			0 0018	J		<0.0079	U	
		VMP-14-5-101012	10/10/2012	0.0033	J		<0 0067	U		<0 0066	U		<0 0066	U		<0.021	U		0.024			<0 0063	U		<0.0071	U		<0.011	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<3.3	U		<4.4	U		<4.3	U		<4.3	U		<14	U		<7.2	U		<4.1	U		<4.7	U		<7.3	U	
		VMP-14-11.5-120110	12/2/2010	1 2			<0 39	U		<0 38	U		<0 38	U		<1.2	U		<0 63	U		<0 36	U		<0.41	U		<0 64	U	
		VMP-14-11.5-120110-DUP	12/2/2010	1 9			<0 35	U		<0 34	U		<0 34	U		<1.1	U		<0 57	U		0.08	J		<0 37	U		<0 58	U	
		VMP-14-11.5-021711	2/17/2011	<0.096	U		<0.13	U		<0.12	U		<0.12	U		<0.4	U		<0 21	U		<0.12	U		<0.14	U		<0 21	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.096	U		<0.13	U		<0.12	U		<0.12	U		<0.4	U		<0 21	U		<0.12	U		<0.14	U		<0 21	U	
		VMP-14-11.5-040511	4/5/2011	<0.016	U		<0.021	U		<0 02	U		<0 02	U		<0.065	U		<0.034	U		0 0054	J		<0.022	U		<0.034	U	
		VMP-14-11.5-080811	8/8/2011	<0.48	U		<0 64	U		<0 63	U		<0 63	U		<2	U		<1	U		<0.6	U		<0 68	U		<1.1	U	
		VMP-14-11.5-111511	11/15/2011	<0.75	U		<1	U		<0 98	U		<0 98	U		<3.1	U		<1.6	U		<0 94	U		<1.1	U		<1.6	U	
		VMP-14-11.5-012612	1/26/2012	<3	U		<4.1	U		<4	U		<4	U		<13	U		<6.6	U		<3.8	U		<4.3	U		<6.7	U	
		VMP-14-11.5-042312	4/23/2012	0.0018	J		<0 0042	U		<0 0042	U		<0 0042	U		<0.013	U		0.02		J	0 0025	J		<0.0045	U		<0 007	U	
		VMP-14-11.5-042312-Dup	4/23/2012	<0.032	J	U	<0 0042	U		<0 0042	U		<0 0042	U		<0.013	U		0 0058	J	J	0 0022	J		<0.0045	U		<0.007	U	
		VMP-14-11.5-072512	7/25/2012	<1.1	U		<1.5	U		<1.4	U		<1.4	U		<4.6	U		<2.4	U		<1.4	U		<1.6	U		<2.5	U	
		VMP-14-11.5-101012	10/10/2012	0.0052	J		<0 0064	U		<0 0063	U		<0 0063	U		<0 02	U		0.021			<0.006	U		<0.0068	U		<0 01	U	
	20 ft	VMP 14-20-091010	9/10/2010	18	J		<67	U		<66	U		<66	U		<210	U		<110	U		<63	U		<72	U		<110	U	
		VMP 14-20-091010-Dup	9/10/2010	<52	U		<70	U		<68	U		<68	U		<220	U		<110	U		<66	U		<74	U		<120	U	
		VMP-14-20-120110	12/2/2010	160			<180	U		<180	U		<180	U		<560	U		<300	U		<170	U		<190	U		<300	U	
		VMP-14-20-021811	2/18/2011	<77	U		<100	U		<100	U		<100	U		<320	U		<170	U		<96	U		<110	U		<170	U	
		VMP-14-20-040511	4/5/2011	<33	U		<44	U		<43	U		<43	U		<140	U		<72	U		<41	U		<47	U		<73	U	
		VMP-14-20-080811	8/8/2011	<12	U		<16	U		<16	U		<16	U		<50	U		<26	U		<15	U		<17	U		<26	U	
		VMP-14-20-111511	11/15/2011	<62	U		<82	U		<81	U		<81	U		<260	U		<130	U		<77	U		<88	U		<140	U	
		VMP-14-20-012612	1/26/2012	1 9	J	J	<8.1	U		<7.9	U		<7.9	U		<25	U		<13	U		<7.6	U		<8.6	U		<13	U	
		VMP-14-20-042312	4/23/2012	<3.3	U		<4.4	U		<4.3	U		<4.3	U		<14	U		<7.2	U		0.38	J		<4.7	U		<7.3	U	
		VMP-14-20-072512	7/25/2012	<5.3	U		<7	U		<6.9	U		<6.9	U		<22	U		<11	U		<6.6	U		<7.5	U		<12	U	
		VMP-14-20-101612	10/16/2012	2 6	J		<32	U		<32	U		<32	U		<100	U		<53	U		12	J		<35	U		<54	U	
	29 ft	VMP-14-29-021811	2/18/2011	<110	U		<150	U		<140	U		<140	U		<460	U		<240	U		<140	U		<160	U		<250	U	
		VMP-14-29-040511	4/5/2011	<96	U		<130	U		<120	U		<120	U		<400	U		<210	U		<120	U		<140	U		<210	U	
		VMP-14-29-012612	1/26/2012	<110	U		<140	U		<140	U		<140	U		<450	U		<240	U		<140	U		<150	U		<240	U	
		VMP-14-29-042312	4/23/2012	<39	U		<52	U		<51	U		<51	U		<160	U		<84	U		<49	U		<55	U		<86	U	
		VMP-14-29-072512	7/25/2012	<41	U		<54	U		<53	U		<53	U		<170	U		<88	U		<51	U		<58	U		<90	U	
		VMP-14-29-101612	10/16/2012	<61	U		<81	U		<80	U		<80	U		<250	U		<130	U		<76	U		<86	U		<130	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	0 001	J		<0 0058	U		<0 0057	U		<0 0057	U		<0.018	U		0 0076	J		<0 0055	U		<0.0062	U		<0.0096	U	
		VMP-15-5-113010	11/30/2010	<0.1	U		<0.14	U		<0.14	U		<0.14	U		<0.43	U		<0 22	U		0.031	J		<0.15	U		<0 23	U	
		VMP-15-5-021611	2/16/2011	0 091	J		<0.13	U		<0.13	U		<0.13	U		<0.41	U		0.13	J	J	<0.12	U		<0.14	U		<0 22	U	
		VMP-15-5-042011	4/20/2011	<0 23	U		<0.3	U		<0.3	U		<0.3	U		<0 95	U		<0.5	U		<0 29	U		<0 32	U		<0.5	U	
		VMP-15-5-080811	8/8/2011	0 012			<0 0069	U		<0 0067	J	U	<0 0067	J	U	<0.021	U		0.072			0 0016	J		<0.0073	J	U	<0.011	U	
		VMP-15-5-111511	11/15/2011	<0 0058	J	U	<0 0077	U		<0 0075	U		<0 0075	U		<0.024	U		0.026			0 0031	J		0 0011	J		<0.013	U	
		VMP-15-5-020112	2/1/2012	<0 03	U		<0 04	U		<0.039	U		<0.039	U		<0.12	U		0.059	J		0.025	J		0.026	J		<0.066	U	
		VMP-15-5-042412	4/24/2012	<0 03	U		<0 04	U		<0 04	U		<0 04	U		<0.13	U		<0.066	U		<0.038	U		<0.043	U		<0.067	U	
		VMP-15-5-072512	7/25/2012	0.0044	J		<0 0046	U		<0 0045	U		<0 0045	U		<0.014	U		0.049			0 0034	J		0 0035	J		<0.0075	U	
		VMP-15-5-102512	10/25/2012	0.0042	J		<0 0069	U		<0 0067	U		<0 0067	U		<0.021	U		0.038			0 0019	J		0 0025	J		<0.011	U	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<0.48	U		<0 63	U		<0 62	U		<0 62	U		<2	U		<1	U		<0 59	U		<0 67	U		<1	U	
		VMP-15-21.5-113010	11/30/2010	<0 56	U		<0.74	U		<0.73	U		<0.73	U		<2.3	U		<1.2	U		<0.7	U		<0.79	U		<1.2	U	
		VMP-15-21.5-021611	2/16/2011	<0 39	U		<0 52	U		<0 51	U		<0 51	U		<1.6	U		<0 84	U		<0.49	U		<0 55	U		<0 86	U	
		VMP-15-21.5-042011	4/20/2011	<0 61	U		<0 81	U		<0.8	U		<0.8	U		<2.5	U		<1.3	U		<0.76	U		<0 86	U		<1.3	U	
		VMP-15-21.5-080811	8/8/2011	0.58			<0 65	U		<0 64	U		<0 64	U		<2	U		<1.1	U		<0 61	U		<0 69	U		<1.1	U	
		VMP-15-21.5-111511	11/15/2011	<0 39	U		<0 52	U		<0 51	U		<0 51	U		<1.6	U		<0 85	U		<0.49	U		<0 55	U		<0 86	U	
		VMP-15-21.5-020112	2/1/2012	<0 29	U		<0 39	U		<0 38	U		<0 38	U		<1.2	U		<0 63	U		<0 36	U		<0.41	U		<0 64	U	
		VMP-15-21.5-042412	4/24/2012	<0.13	U		<0.17	U		<0.17	U		<0.17	U		<0 53	U		<0 28	U		<0.16	U		<0.18	U		<0 28	U	
		VMP-15-21.5-072512	7/25/2012	0.31	J		<0 61	U		<0.6	U		<0.6	U		<1.9	U		<1	U		<0 58	U		<0 65	U		<1	U	
		VMP-15-21.5-102512	10/25/2012	<0.75	U		<1	U		<0 98	U		<0 98	U		<3.1	U		<1.6	U		<0 94	U		<1.1	U		<1.6	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<0.77	U		<1	U		<1	U		<1	U		<3.2	U		<1.7	U		<0 97	U		<1.1	U		<1.7	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	0.0026	J		<0.006	U		<0 0058	U		<0 0058	U		<0.018	U		0 0053	J		<0 0056	U		<0.0063	U		<0.0099	U	
		VMP-15-25.5-021611	2/16/2011	<0 06	U		<0.079	U		<0.078	U		<0.078	U		<0 25	U		<0.13	U		<0.075	U		<0.084	U		<0.13	U	
		VMP-15-25.5-042011	4/20/2011	<0.049	U	UJ	<0.065	U		<0.064	U		<0.064	U		<0.2	U		<0.11	U		<0.061	U		<0.069	U		<0.11	U	
		VMP-15-25.5-042011-DUP	4/20/2011	0.15		J	<0.061	U		<0 06	U		<0 06	U		<0.19	U		<0.099	U		<0.057	U		<0.065	U		<0.1	U	
		VMP-15-25.5-080811	8/8/2011	<0.049	U		<0.065	U		<0.064	U		<0.064	U		<0.2	U		0.087	J		<0.061	U		<0.069	U		<0.11	U	
		VMP-15-25.5-111511	11/15/2011	0 004	J		<0 02	U		<0 02	U		<0 02	U		<0.062	U		0.027	J		<0.019	U		<0.021	U		<0.033	U	
		VMP-15-25.5-073112	7/31/2012	0.0062	J		<0.042	U		<0.042	U		<0.042	U		<0.13	U		0.052	J	J	<0 04	U		<0.045	U		<0 07	U	
		VMP-15-25.5-102512	10/25/2012	<0.052	U		<0 0069	U		<0 0067	U		<0 0067	U		<0.021	U		0.065			<0 0064	U		0 0017	J		<0 011	U	
	29 ft	VMP-15-29-073112	7/31/2012	<0.14	U		<0.18	U		<0.18	U		<0.18	U		<0 56	U		<0.3	U		<0.17	U		<0.19	U		<0.3	U	
		VMP-15-29-102512	10/25/2012	<0.11	U		<0.014	U		<0.014	U		<0.014	U		<0.044	U		0.086			<0.013	U		0 0023	J		<0.024	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				45			0.46			6.2			6.2			2.3						8300								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<8.3	U		<11	U		<11	U		<11	U		<34	U		<18	U		12			2.5	J		<18	U	
		VMP-16-5-112910	11/29/2010	<3.8	U		<5	U		<4.9	U		<4.9	U		<16	U		<8.2	U		7 5		J	<5.4	U		<8.4	U	
		VMP-16-5-021511	2/15/2011	<2.3	U		<3	U		<3	U		<3	U		<9.5	U		<5	U		<2.9	U		<3.2	U		<5	U	
		VMP-16-5-042211	4/22/2011	<3	U		<4.1	U		<4	U		<4	U		<13	U		<6.6	U		<3.8	U		<4.3	U		<6.7	U	
		VMP-16-5-080511	8/5/2011	<0 98	U		<1.3	U		<1.3	U		<1.3	U		<4	U		<2.1	U		<1.2	U		<1.4	U		<2.2	U	
		VMP-16-5-042512	4/25/2012	0.82	J		<4.4	U		<4.3	U		<4.3	U		<14	U		<7.2	U		<4.1	U		<4.7	U		<7.3	U	
		VMP-16-5-073012	7/30/2012	0.31	J	J	<4.1	U		<4.1	U		<4.1	U		<13	U		<6.7	U		0 64	J	J	<4.4	U		<6.8	U	
		VMP-16-5-102512	10/25/2012	<2.4	U		<3.2	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3.1	U		<3.5	U		<5.4	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	2.1	J		<11	U		<11	U		<11	U		<36	U		<19	U		15			3.4	J		<19	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<8.6	U		<11	U		<11	U		<11	U		<36	U		<19	U		15			2.9	J		<19	U	
		VMP-16-13.5-112910	11/29/2010	<24	U		<32	U		<32	U		<32	U		<100	U		<53	U		9 9	J		<34	U		<54	U	
		VMP-16-13.5-021611	2/16/2011	<4.7	U		<6.2	U		<6.1	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U		<10	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<4.6	U		<6.1	U		<6	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U		<10	U	
		VMP-16-13.5-042211	4/22/2011	<4.9	U		<6.6	U		<6.4	U		<6.4	U		<20	U		<11	U		<6.2	U		<7	U		<11	U	
		VMP-16-13.5-080511	8/5/2011	<0.48	U	UJ	<0 64	U	UJ	<0 63	U	UJ	<0 63	U	UJ	<2	U	UJ	<1	U	UJ	<0.6	U	UJ	<0 68	U	UJ	<1	U	UJ
		VMP-16-13.5-042512	4/25/2012	<0 53	U		<0.7	U		<0 69	U		<0 69	U		<2.2	U		<1.1	U		3 2		J	0 39	J	J	<1.2	U	
		VMP-16-13.5-073012	7/30/2012	4 8	J		<21	U		<21	U		<21	U		<66	U		<34	U		<20	U		<22	U		<35	U	
		VMP-16-13.5-102512	10/25/2012	<49	U		<65	U		<64	U		<64	U		<200	U		<110	U		<61	U		<69	U		<110	U	
	19 ft	VMP-16-19-090210	9/2/2010	<8.6	U		<11	U		<11	U		<11	U		<36	U		<19	U		23			3.2	J		<19	U	
		VMP-16-19-112910	11/29/2010	<19	U		<25	U		<24	U		<24	U		<78	U		<41	U		14	J		<26	U		<41	U	
		VMP-16-19-021611	2/16/2011	<4.5	U		<6	U		<5.8	U		<5.8	U		<18	U		<9.7	U		<5.6	U		<6.3	U		<9.9	U	
		VMP-16-19-042711	4/27/2011	1	J		<6.1	U		<6	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U		<10	U	
		VMP-16-19-042711-DUP	4/27/2011	0.54	J		<6	U		<5.8	U		<5.8	U		<18	U		<9.7	U		<5.6	U		<6.3	U		<9.9	U	
		VMP-16-19-042512	4/25/2012	2 5	J		<16	U		<16	U		<16	U		<51	U		<27	U		7 3	J		<17	U		<27	U	
		VMP-16-19-073012	7/30/2012	1.7	J		<15	U		<14	U		<14	U		<46	U		<24	U		12	J		<16	U		<24	U	
		VMP-16-19-102512	10/25/2012	<46	U		<61	U		<60	U		<60	U		<190	U		<99	U		<57	U		<65	U		<100	U	
	31 ft	VMP-16-31-090310	9/3/2010	<0.005	U		<0 0067	U		<0 0066	U		<0 0066	U		<0.021	U		0.014			0.002	J		<0.0071	U		<0 011	U	
		VMP-16-31-112910	11/29/2010	<19	U		<25	U		<25	U		<25	U		<78	U		<41	U		15	J		<27	U		<42	U	
		VMP-16-31-042512	4/25/2012	3.4	J		<20	U		<19	U		<19	U		<62	U		<32	U		3.4	J		<21	U		<33	U	
		VMP-16-31-073012	7/30/2012	5 2	J		<16	U		<16	U		<16	U		<50	U		6	J	J	<15	U		<17	U		<27	U	
		VMP-16-31-102512	10/25/2012	<57	U		<76	U		<74	U		<74	U		<240	U		<120	U		<71	U		<81	U		<120	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.005	U		<0.006	U		<0.006	U		<0.006	U		<0.021	U		<0.011	U		<0.006	U		<0.007	U		<0.011	U	
		VMP-17-5-DUP	6/21/2010	<0.005	U		<0.006	U		<0.006	U		<0.006	U		<0.022	U		<0.011	U		<0.006	U		<0.007	U		<0.011	U	
		VMP-17-5-090110	9/1/2010	<0 0047	U		<0 0062	U		<0 0061	U		<0 0061	U		0 0033	J		0.022			0 0039	J	J	<0.0066	U		<0 01	U	U
		VMP-17-5-112210	11/22/2010	<0 0047	U		<0 0062	U		<0 0061	U		<0 0061	U		0 0036	J		0.011			<0 0058	U		<0.0066	U		<0 01	U	
		VMP-17-5-020711	2/7/2011	0 001	J		<0 0058	U		<0 0057	U		<0 0057	U		0 0034	J		<0 0095	U		<0 0055	U		<0.0062	U		<0.0096	U	
		VMP-17-5-040611	4/6/2011	<0.018	U		<0.023	U		<0.023	U		<0.023	U		<0.073	U		<0.038	U		<0.022	U		<0.025	U		<0.039	U	
		VMP-17-5-080111	8/1/2011	<0.067	U		<0.089	U		<0.087	U		<0.087	U		<0 28	U		0.17			<0.084	U		<0.095	U		<0.15	U	
		VMP-17-5-110711	11/7/2011	<0.003	J	U	<0.004	U		<0 0039	U		<0 0039	U		<0.012	U		0.044			<0 0037	U		<0.0042	J	U	<0.0066	U	
		VMP-17-5-012612	1/26/2012	0.0011	J		<0 0041	U		<0 0041	U		<0 0041	U		<0.013	U		0 0099			0 0012	J		<0.0044	U		<0.0068	U	
		VMP-17-5-041112	4/11/2012	<0.032	J	U	0 00079	J		<0 0042	U		<0 0042	U		<0.013	U		0.015			0 0023	J		<0.0045	U		<0.007	U	
		VMP-17-5-071112	7/11/2012	<0.034	U		<0 0045	U		<0 0044	U		<0 0044	U		<0.014	U		0.064			0 0031	J		<0.0048	J	U	<0.0075	U	
		VMP-17-5-100912	10/9/2012	0.0023	J		<0.007	U		<0 0069	U		<0 0069	U		<0.022	U		0 0052	J		<0 0066	U		0 0045	J		<0.012	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.042	U		<0.056	U		<0.055	U		<0.055	U		<0.17	U		<0.091	U		0.07			0.12			<0.093	U	
		VMP-25-5-040811	4/8/2011	0.0095	J		<0.025	U		<0.025	U		<0.025	U		<0.079	U		0.033	J		<0.024	U		<0.027	U		<0.042	U	
		VMP-25-5-080911	8/9/2011	0 026			0.0029	J		<0 0053	U		<0 0053	J	U	<0.017	U		0.1			0.01			<0.0057	J	U	<0.0089	U	
		VMP-25-5-111711	11/17/2011	0 001	J		<0 0039	U		<0 0038	U		<0 0038	U		<0.012	U		0 0071			<0 0036	U		<0.0041	U		<0.0064	U	
		VMP-25-5-013112	1/31/2012	<0.021	U		<0.028	U		<0.028	U		<0.028	U		<0.088	U		<0.046	U		0 0044	J		<0 03	U		<0.047	U	
		VMP-25-5-042512	4/25/2012	<0.033	J	U	<0 0044	U		<0 0043	U		<0 0043	U		<0.014	U		0.058			0.003	J		0 0019	J		<0.0073	U	
		VMP-25-5-072612	7/26/2012	<0.11	J	U	<0.015	U		<0.015	U		<0.015	U		<0.047	U		0.019	J		0.014			0 01	J		<0.025	U	
		VMP-25-5-102612	10/26/2012	<0.047	U		<0 0062	U		<0 0061	U		<0 0061	U		<0.019	U		0.048			<0 0058	U		<0.0066	U		<0 01	U	
	21 ft	VMP-25-21-031511	3/15/2011	2.7	J		<11	U		<11	U		<11	U		<34	U		12	J		11			1.7	J		<18	U	
		VMP-25-21-031511-DUP	3/15/2011	<10	U		<14	U		<14	U		<14	U		<44	U		14	J		11	J		<15	U		<23	U	
		VMP-25-21-040811	4/8/2011	<88	U		<120	U		<110	U		<110	U		<360	U		<190	U		<110	U		<120	U		<190	U	
		VMP-25-21-040811-DUP	4/8/2011	<88	U		<120	U		<120	U		<120	U		<370	U		<190	U		<110	U		<120	U		<200	U	
		VMP-25-21-080911	8/9/2011	<29	U		<38	U		<37	U		<37	U		<120	U		<62	U		210			190			<63	U	
		VMP-25-21-111711	11/17/2011	15	J		<52	U		<51	U		<51	U		<160	U		<85	U		<49	U		<55	U		<86	U	
		VMP-25-21-111711-DUP	11/17/2011	18	J		<77	U		<75	U		<75	U		<240	U		<120	U		<72	U		<82	U		<130	U	
		VMP-25-21-013112	1/31/2012	<20	U		<27	U		<26	U		<26	U		<84	U		<44	U		<25	U		<29	U		<45	U	
		VMP-25-21-013112-DUP	2/1/2012	<19	U		<25	U		<25	U		<25	U		<78	U		<41	U		<24	U		<27	U		<42	U	
		VMP-25-21-042512	4/25/2012	<13	U		<17	U		<17	U		<17	U		<54	U		<28	U		<16	U		<18	U		<28	U	
		VMP-25-21-072612	7/26/2012	8 6	J		<29	U		<28	U		<28	U		<91	U		<47	U		<27	U		<31	U		<48	U	
		VMP-25-21-102612	10/26/2012	15	J		<170	U		<170	U		<170	U		<540	U		<280	U		<160	U		<180	U		<290	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	<0 37	U		<0.049	U		<0.048	U		<0.048	U		<0.15	U		0 034	J		<0.046	U		<0.052	U		<0.081	U	
		VMP-29-10-100812	10/8/2012	<0 65	U		<0.087	U		<0.085	U		<0.085	U		<0 27	U		<0.14	U		<0.082	U		<0.092	U		<0.14	U	
	20 ft	VMP-29-20-073012	7/30/2012	<0.44	U		<0 58	U		<0 57	U		<0 57	U		<1.8	U		0 3	J		<0 54	U		<0 62	U		<0 96	U	
		VMP-29-20-073012-Dup	7/30/2012	<0.41	U		<0 54	U		<0 53	U		<0 53	U		<1.7	U		0.19	J		<0 51	U		<0 58	U		<0.9	U	
		VMP-29-20-100812	10/8/2012	<0 65	U		<0.087	U		<0.085	U		<0.085	U		<0 27	U		0 077	J		<0.082	U		<0.092	U		<0.14	U	
	30 ft	VMP-29-30-073012	7/30/2012	<0.072	U		<0.095	U		<0.093	U		<0.093	U		<0.3	U		0.18			<0.089	U		<0.1	U		<0.16	U	
		VMP-29-30-100812	10/8/2012	0.34	J		<0.43	U		<0.42	U		<0.42	U		<1.3	U		<0.7	U		<0.4	U		<0.45	U		<0.71	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene			Freon 113		
				45			0.46			6.2			6.2			2.3						8300								
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	<0.13	U		<0.17	U		<0.17	U		<0.17	U		<0 54	U		<0 28	U		<0.16	U		<0.18	U		<0 29	U	
		VMP-30-10-100812	10/8/2012	0 002	J		<0 0065	U		<0 0064	U		<0 0064	U		<0 02	U		0.022			<0 0061	U		<0.0069	U		<0.011	U	
	20 ft	VMP-30-20-073012	7/30/2012	0.11	J		<0.73	U		<0.72	U		<0.72	U		<2.3	U		<1.2	U		<0 69	U		<0.78	U		<1.2	U	
		VMP-30-20-100812	10/8/2012	0.25	J		<0 27	U		<0 26	U		<0 26	U		<0 84	U		0.25	J		<0 25	U		<0 28	U		<0.44	U	
	30 ft	VMP-30-30-073012	7/30/2012	0.16	J		<0.76	U		<0.74	U		<0.74	U		<2.4	U		<1.2	U		<0.71	U		<0.8	U		<1.2	U	
		VMP-30-30-100812	10/8/2012	0.28	J		<0 56	U		<0 55	U		<0 55	U		<1.7	U		<0 91	U		<0 52	U		<0 59	U		<0 92	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	<0.042	J	U	<0 0056	U		<0 0055	U		<0 0055	U		<0.018	U		0.072			0 0059			0 0015	J		<0.0093	U	
		VMP-41-10-100912	10/9/2012	0.0023	J		<0 0068	U		<0 0067	U		<0 0067	U		<0.021	U		0.035			<0 0064	U		<0.0073	U		<0 011	U	
	20 ft	VMP-41-20-072712	7/27/2012	<0.032	J	U	<0 0043	U		<0 0042	U		<0 0042	U		<0.013	U		0.042			0.003	J		0 0009	J		<0.0072	U	
		VMP-41-20-072712-Dup	7/27/2012	<0.033	J	U	<0 0044	U		<0 0043	U		<0 0043	U		<0.014	U		0.028			0.003	J		0.00079	J		<0.0073	U	
		VMP-41-20-100912	10/9/2012	0.0042	J		<0 0067	U		<0 0066	U		<0 0066	U		<0.021	U		0.031			<0 0063	U		<0.0071	U		<0 011	U	
		VMP-41-20-100912-Dup	10/9/2012	<0.051	J	U	<0 0068	U		<0 0067	U		<0 0067	J	U	<0.021	U		0.032			<0 0064	U		<0.0073	U		<0 011	U	
	30 ft	VMP-41-30-072712	7/27/2012	<0.033	J	U	<0 0044	U		<0 0043	U		<0 0043	U		<0.014	U		0.12			0 0032	J		0.00082	J		<0.0073	U	
		VMP-41-30-100912	10/9/2012	<0.054	J	U	<0 0072	U		<0.007	U		<0.007	U		<0.022	U		0.024			<0 0068	U		<0.0076	U		<0.012	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 3500			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 23000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	<0 0092	U		0.0071			<0.056	U		0 015			<0.022	U					0.002	J		0 0016	J		<0.0048	U	
		VMP-10-5-111810	11/17/2010	<0 0084	U		0 012			<0.052	U		0.0072			<0 02	U					<0 0059	U		<0.005	U		0.00036	J	
		VMP-10-5-021011	2/10/2011	<0 0083	U		0 044			<0.051	U		0.11			<0.019	U					<0 0058	U		<0.0049	U		<0.0043	U	
		VMP-10-5-040511	4/5/2011	<0 0077	U		0.0051			<0.047	U		0.0066			<0.018	U		0.017			0.013			0.039			0.00036	J	
		VMP-10-5-07/2911	7/29/2011	<0 0094	U		<0 0055	U		<0.057	U		0.0036	J		<0.022	J	U	<0.016	U		0.013			0.066			<0.0048	U	
		VMP-10-5-110411	11/4/2011	<0 0048	U		<0 0028	U		<0 03	U		0.00062	J		0.00065	J		<0 0082	U		0 0046			0.026			<0.0025	U	
		VMP-10-5-012512	1/26/2012	<0 0061	U		0.0022	J		<0.037	U		0.0028	J		<0.014	U		0 0072	J		0 0015	J		0.027			<0.0032	U	
		VMP-10-5-041212	4/12/2012	<0 0066	U		0.0047			<0 04	U		0 013			<0.015	U		0.024			<0 0046	U		<0.0038	U		<0.0034	U	
		VMP-10-5-071312	7/13/2012	<0 0067	U		<0.004	J	U	<0.041	U		0.0017	J		<0.016	U		<0.011	U		<0 0047	J	U	<0.004	J	U	<0.0035	U	
		VMP-10-5-101612	10/16/2012	<0 01	U		0 012			<0.065	U		0 028			<0.025	U		0.19			0 0031	J		<0.0062	U		<0.0055	U	
	10 ft	VMP-10-10-090710	9/7/2010	<0 0092	U		0.0017	J		<0.056	U		0.0016	J		<0.022	U					<0 0065	U		0 0012	J		<0.0048	U	
		VMP-10-10-111810	11/17/2010	<0.009	U		0.01			<0.055	U		0.0096			<0.021	U					<0 0063	U		<0.0053	U		0.00046	J	
		VMP-10-10-021111	2/11/2011	<0 0071	U		0 006			<0.043	U		0.0049			<0.016	U					<0.005	U		<0.0041	U		<0.0036	U	
		VMP-10-10-040611	4/6/2011	<0 0092	U		0.0022	J		<0.056	J	U	0.0068			<0.022	U		0.014	J		<0 0065	U		<0.0054	U		<0.0048	U	
		VMP-10-10-072911	7/29/2011	<0 0096	U		0.0027	J		<0.059	U		0.0025	J		0 0032	J		<0.016	U		0.023			0.13			<0.005	U	
		VMP-10-10-110411	11/4/2011	<0 0062	U		0.0009	J		<0.038	U		<0 0032	J	U	0.00081	J		<0 01	U		0 0061			0.018			<0.0032	U	
		VMP-10-10-110411-DUP	11/4/2011	<0 0062	U		0.0018	J		<0.038	U		<0 0032	J	U	0 0018	J		<0 01	U		0 0056			0.016			<0.0032	U	
		VMP-10-10-012512	1/26/2012	<0 0061	U		<0 0036	U		<0.037	U		<0 0031	U		<0.014	U		0 0017	J	J	0.004	J		0 0013	J		<0.0032	U	
		VMP-10-10-012512-DUP	1/26/2012	<0 0064	U		<0 0037	U		<0.039	U		0.00092	J		<0.015	U		0.081		J	0 0017	J		0 0017	J		<0.0033	U	
		VMP-10-10-041112	4/11/2012	<0 0067	U		0.0045			<0.041	U		0 011			<0.016	U		0.012			0.00084	J		0 0007	J		<0.0034	U	
		VMP-10-10-071312	7/13/2012	<0 0066	U		<0 0038	J	U	<0 04	U		<0 0033	J	U	<0.015	U		0.003	J		<0 0046	J	U	<0.0038	J	U	<0.0034	U	
		VMP-10-10-101612	10/16/2012	<0.011	U		0.0039	J		<0.067	U		0 015			<0.026	U		0.13			0 0022	J		<0.0065	U		<0.0057	U	
	20 ft	VMP-10-20-090710	9/7/2010	<0 0096	U		0.0037	J		<0.059	U		0.0061			<0.023	U					<0 0068	U		0.00098	J		<0.005	U	
		VMP-10-20-090710-DUP	9/7/2010	<0.009	U		0.0025	J		<0.055	U		0.0043	J		<0.021	U					<0 0063	U		0.00096	J		<0.0046	U	
		VMP-10-20-111810	11/17/2010	<0.017	U		0.0048	J		<0.1	U		0.0049	J		<0 04	U					<0.012	U		<0 01	U		0 0012	J	
		VMP-10-20-111810-Dup	11/17/2010	<0 0086	U		0 013			<0.053	U		0.0097			<0 02	U					<0 0061	U		<0.005	U		0.00047	J	
		VMP-10-20-021111	2/11/2011	<0 0085	U		0.0056			<0.052	U		0.0043			<0 02	U					<0.006	U		<0.005	U		<0.0044	U	
		VMP-10-20-040611	4/6/2011	<0 01	U		0.0036	J		<0.063	J	U	0.0084			<0.024	U		0.027			0.029			0.1			<0.0053	U	
		VMP-10-20-072911	7/29/2011	<0 0095	U		<0 0056	U		<0.058	U		0 003	J		<0.022	J	U	<0.016	U		0.023			0.075			<0.0049	U	
		VMP-10-20-110411	11/4/2011	<0 0062	U		0 002	J		<0.038	U		0.0033			0.00087	J		0 0043	J		0 0057			0.031			<0.0032	U	
		VMP-10-20-012612	1/26/2012	<0 0059	U		0.0026	J		<0.036	U		0 011			<0.014	U		0.048			0.00095	J		0 0023	J		<0.003	U	
		VMP-10-20-041212	4/12/2012	<0 0066	U		0.0066			<0 04	U		0 013			<0.015	U		0.015			<0 0046	U		<0.0038	U		<0.0034	U	
		VMP-10-20-071612	7/16/2012	<0 0062	U		0 003	J		<0.038	U		0.0043			<0.015	U		0 0056	J		<0 0044	U		<0.0037	U		<0.0032	U	
		VMP-10-20-101612	10/16/2012	<0.011	U		<0 0065	U		<0.068	U		0.0035	J		<0.026	U		0.038			<0 0078	U		<0.0065	U		<0.0058	U	
	30 ft	VMP-10-30-041212	4/12/2012	<0 0068	U		0.0028	J		<0.042	U		0 008			<0.016	U		0.024			<0 0048	U		<0.004	U		<0.0035	U	
		VMP-10-30-071612	7/16/2012	<0.006	U		0.0045			<0.037	U		0.01			<0.014	U		0 0068	J		<0 0042	U		<0.0035	U		<0.0031	U	
		VMP-10-30-101612	10/16/2012	<0 01	U		0.0021	J		<0.064	U		0.0046	J		<0.024	U		0.026			<0 0074	U		<0.0061	U		<0.0054	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	<0 0086	U		0 001	J		<0.053	U		<0 0044	U		<0 02	U					<0 0061	U		0.00085	J		<0.0044	U	
		VMP-11-5-112210	11/22/2010	<0.009	U		0.0013	J		<0.055	U		0.0018	J		<0.021	U					<0 0063	U		<0.0053	U		<0.0046	U	
		VMP-11-5-021511	2/15/2011	<0.008	U		0 018			<0.049	U		0 028			<0.019	U					<0 0056	U		0 0015	J		<0.0041	U	
		VMP-11-5-040611	4/6/2011	<0.076	U		0 042	J		<0.46	U		0.28			<0.18	U		1.1			<0.053	U		<0.044	U		<0.039	U	
		VMP-11-5-080711	8/7/2011	<0.1	U		<0.061	U		<0 63	U		<0.052	U		<0 24	U		0.019	J		0.06	J		0.16			<0.054	U	
		VMP-11-5-111111	11/11/2011	<0 02	U		0 084			<0.12	U		0.25			<0.048	U		1.4			0 0024	J		0.024			<0 01	U	
		VMP-11-5-012612	1/26/2012	<0 0061	U		<0 0036	U		<0.037	U		<0 0031	U		<0.014	U		<0 01	U		0 0052			0.017			<0.0032	U	
		VMP-11-5-041912	4/19/2012	<0 0068	U		0.0062			<0.042	U		0.0037			<0.016	U		<0.012	J	U	0.059			0 34			<0.0035	U	
		VMP-11-5-071912	7/16/2012	<0 0089	U		<0 0052	J	U	<0.054	U		<0 0045	J	U	<0.021	U		0 0076	J		<0 0062	U		<0.0052	U		<0.0046	U	
		VMP-11-5-101612	10/16/2012	<0 0099	U		<0 0058	U		<0 06	U		<0.005	U		<0.023	U		0.019			<0.007	U		<0.0058	U		<0.0051	U	
	8 ft	VMP-11-8-090810	9/8/2010	<0.009	U		0.0016	J		<0.055	U		0.0034	J		<0.021	U					<0 0063	U		<0.0053	U		<0.0046	U	
		VMP-11-8-112210	11/22/2010	<0.009	U		0 00074	J		<0.055	U		<0 0045	U		<0.021	U					<0 0063	U		<0.0053	U		<0.0046	U	
		VMP-11-8-021111	2/11/2011	<0 0087	U		0.0033	J		<0.053	U		0 003	J		<0 02	U					<0 0061	U		<0.0051	U		<0.0045	U	
		VMP-11-8-021111-DUP	2/11/2011	<0 0082	U		0.0017	J		<0 05	U		0.0016	J		<0.019	U					<0 0058	U		<0.0048	U		<0.0042	U	
		VMP-11-8-040611	4/6/2011	<0.039	U		0 035			<0 24	U		<0 02	U	UJ	<0.091	U		0.38			<0.027	U		<0.023	U		<0 02	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.034	U		0 025			<0.2	U		0.12		J	<0.079	U		0.29			<0.024	U		<0 02	U		<0.017	U	
		VMP-11-8-080711	8/7/2011	<0.1	U		<0.061	U		<0 63	U		<0.052	U		<0 24	U		<0.18	U		0.046	J		0.14			<0.054	U	
		VMP-11-8-111411	11/14/2011	<0 0062	U		0 005			<0.038	U		0 016			<0.014	U		0.078			0 0044			0.038			<0.0032	U	
		VMP-11-8-012612	1/26/2012	<0.006	U		<0 0035	U		<0.036	U		<0.003	U		<0.014	U		<0 01	U		0 0048			0.021			<0.0031	U	
		VMP-11-8-041912	4/19/2012	<0 0068	U		0.0019	J		<0.042	U		0.0025	J		<0.016	U		<0.012	J	U	0.048			0 34			<0.0035	U	
		VMP-11-8-072012	7/20/2012	<0 0068	U		<0.004	U		<0.042	U		<0 0034	U		0.00028	J		<0.012	U		<0 0048	U		<0.004	U		<0.0035	U	
		VMP-11-8-101612	10/16/2012	<0 01	U		<0 0059	U		<0.061	U		0.0032	J		<0.023	U		0.015	J		<0.007	U		0 0012	J		<0.0052	U	
		VMP-11-8-101612-Dup	10/16/2012	<0 01	U		<0 0059	U		<0.062	U		0.0027	J		<0.024	U		0 0033	J		<0.007	U		<0.0059	U		<0.0052	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0 22	U		<0.13	U		<1.4	U		0.1	J		<0 53	U					<0.16	U		<0.13	U		0.053	J	
		VMP-11-29-112210	11/22/2010	<3.2	U		<1.9	U		<20	U		<1.6	U		<7.5	U					<2.3	U		<1.9	U		<1.6	U	
		VMP-11-29-112210-Dup	11/22/2010	<2.2	U		<1.3	U		<14	U		<1.1	U		<5.2	U					<1.6	U		<1.3	U		<1.2	U	
		VMP-11-29-021411	2/14/2011	<0 0087	U		0.0062			<0.053	U		0 042			<0 02	U					<0 0061	U		0 0013	J		0 0011	J	
		VMP-11-29-040611	4/6/2011	<0.066	U		0 052			<0.4	U		0.25			<0.15	U		0.44			<0.046	U		<0.039	U		0 0031	J	
		VMP-11-29-082511	8/25/2011	<0 0096	U		<0 0056	U		<0.059	U		0 002	J		0.00092	J		0.004	J		0 0088			0.056			0 0012	J	
		VMP-11-29-082511-Dup	8/25/2011	<0 0096	U		<0 0056	U		<0.059	U		0.0032	J		0.00098	J		0.004	J		0 0086			0.052			0.00088	J	
		VMP-11-29-111411	11/14/2011	<0 0061	U		0.0029	J		<0.037	U		0.0023	J		<0.014	U		0 0049	J		0 0054			0 04			0 0037		
		VMP-11-29-012612	1/26/2012	<0 0059	U		<0 0034	U		<0.036	U		<0.003	U		<0.014	U		0 0062	J		0 0043			0.012			0 0087		
		VMP-11-29-042712	4/27/2012	<0 0061	U		0.0026	J		<0.037	U		0.0037			<0.014	U		0 0072	J		0 0092			0.098			0.00091	J	
		VMP-11-29-072012	7/23/2012	<0 0061	U		0 038			<0.037	U		0.0095			0 0026	J		<0 01	U		0.063			0 21			<0.0032	U	
		VMP-11-29-101612	10/16/2012	<0 01	U		<0 0061	U		<0.063	U		<0 0052	U		<0.024	U		<0.017	U		<0 0073	U		<0.0061	U		0.00079	J	
	38 ft	VMP-11-38-042312	4/23/2012	<0.46	U		<0 27	U		<2.8	U		<0 23	U		<1.1	U		0.45	J		<0 32	U		<0 27	U		0.11	J	
		VMP-11-38-042312-Dup	4/23/2012	<1.6	U		<0 94	U		<9.8	U		<0 81	U		<3.8	U		0.49	J		<1.1	U		<0 94	U		0.098	J	
		VMP-11-38-072312	7/23/2012	<0.76	U		<0.44	U		<4.6	U		<0 38	U		<1.8	U		0.48	J		<0 53	U		<0.44	U		<0 39	U	
		VMP-11-38-101612	10/16/2012	<0 01	U		<0 0061	U		<0.064	U		0.0023	J		<0.024	U		0.032			<0 0074	U		<0.0061	U		0.011		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 3500			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 23000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<9.4	U		<5.5	U		<57	U		11			<22	U					2 9	J		<5.5	U		<4.8	U	
		VMP-12-5-120310	12/3/2010	<93	U		<54	U		<570	U		370			<220	U					18	J		<54	U		<48	U	
		VMP-12-5-021511	2/15/2011	<4.3	U		<2.5	U		<26	U		9 6			<10	U					<3	U		<2.5	U		<2.2	U	
		VMP-12-5-041911	4/19/2011	<31	U		<18	U		<190	U		5.1	J		<73	U		9700			<22	U		<18	U		<16	U	
		VMP-12-5-080411	8/4/2011	<8.1	U		<4.7	U		<49	U		16			<19	U		7700			<5.7	U		<4.7	U		<4.2	U	
		VMP-12-5-111611	11/16/2011	<0 0057	U		0.0046			<0.035	U		0 036			0.00029	J		0.26			0 0019	J		0.013			<0.0029	U	
		VMP-12-5-012412	1/24/2012	<0.064	U		0.4			<0 39	U		3 5			<0.15	U		12			0 0062	J		0 08			<0.033	U	
		VMP-12-5-041912	4/19/2012	<0 0064	U		0 012			<0.039	U		0 019			<0.015	U		0.029			0.014			0 0051			<0.0033	U	
		VMP-12-5-072612	7/26/2012	<0 0068	U		0.0081			<0.042	U		0.0084		J	<0.016	U		0.026			0 0011	J		0 0044			<0.0035	U	
		VMP-12-5-072612-Dup	7/26/2012	<0 0062	U		0.0006	J		<0.038	U		0.00045	J	J	<0.014	U		0 0032	J		<0 0044	U		<0.0036	U		<0.0032	U	
		VMP-12-5-102412	10/24/2012	<0 01	U		<0 0061	U		<0.064	U		0.0026	J		<0.024	U		0.008	J		0 0031	J		0.009			<0.0054	U	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<12	U		4 5	J		<74	U		41			<28	U					9.1			<7.1	U		<6.2	U	
		VMP-12-11.5-120310	12/3/2010	<10	U		<6.1	U		<64	U		11			<24	U					<7.3	U		<6.1	U		<5.4	U	
		VMP-12-11.5-021511	2/15/2011	<9.4	U		<5.5	U		<57	U		18			<22	U					<6.6	U		<5.5	U		<4.8	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<8.1	U		<4.7	U		<49	U		15			<19	U					<5.7	U		<4.7	U		<4.2	U	
		VMP-12-11.5-041911	4/19/2011	<28	U		<16	U		<170	U		6 9	J		<66	U		11000			<20	U		<16	U		<14	U	
		VMP-12-11.5-080411	8/4/2011	<9.8	U		<5.8	U		<60	U		9.1			<23	U		4800			<6.9	U		<5.8	U		<5.1	U	
		VMP-12-11.5-111611	11/16/2011	<0.079	U		<0.046	U		<0.48	U		0 054			<0.18	U		12			0.007	J		0.017	J		<0 04	U	
		VMP-12-11.5-012412	1/24/2012	<0.73	U		<0.43	U		<4.5	U		1 6			<1.7	U		410			<0 52	U		<0.43	U		<0 38	U	
		VMP-12-11.5-041912	4/19/2012	<0.067	U		<0.039	U		<0.41	U		0 023	J		<0.16	U		14			0.014	J		<0.039	U		<0.034	U	
		VMP-12-11.5-082012	8/20/2012	<0 01	U		<0 0062	U		<0.065	U		0 002	J		<0.025	U		0.006	J		0.096			0.18			<0.0055	U	
		VMP-12-11.5-102612	10/26/2012	<0 01	U		0.0016	J		<0.062	U		0.0057			<0.024	U		0.066			0.016			0.032			<0.0052	U	
	25 ft	VMP-12-25-090310	9/3/2010	<15	U		100			<94	U		860			<36	U					20			<9	U		<7.9	U	
		VMP-12-25-120310	12/3/2010	<0.76	U		<0.45	U		<4.6	U		0.55			<1.8	U					<0 54	U		<0.45	U		<0 39	U	
		VMP-12-25-021511	2/15/2011	<18	U		32			<110	U		180			<44	U					9 2	J		<11	U		<9.6	U	
		VMP-12-25-041911	4/19/2011	<30	U		10	J		<180	U		110			<71	U		8300			8 6	J		<18	U		<16	U	
		VMP-12-25-080411	8/4/2011	<19	U		9 2	J		<120	U		190			<45	U		9200			<14	U		<11	U		<9.9	U	
		VMP-12-25-111611	11/16/2011	<22	U		<13	U		<130	U		40			<51	U		8900			<15	U		<13	U		<11	U	
		VMP-12-25-012412	1/24/2012	<8.4	U		<4.9	U		<51	U		40		J	<20	U		12000			0.77	J	J	<4.9	U		<4.3	U	
		VMP-12-25-012412-DUP	1/24/2012	<61	U		<36	U		<370	U		36			<140	U		12000			<43	U		<36	U		<32	U	
		VMP-12-25-041912	4/19/2012	<6.4	U		<3.7	U		<39	U		9 9			<15	U		8400			<4.5	U		<3.7	U		<3.3	U	
		VMP-12-25-072712	7/27/2012	<7	U		<4.1	U		<43	U		<3.5	U		<16	U		1400		J	<4.9	U		<4.1	U		<3.6	U	
		VMP-12-25-072712-Dup	7/27/2012	<7	U		<4.1	U		<43	U		<3.5	U		<16	U		1800		J	<4.9	U		<4.1	U		<3.6	U	
		VMP-12-25-102512	10/25/2012	<3	U		<1.8	U		<18	U		<1.5	U		<7.1	U		180			<2.1	U		<1.8	U		<1.6	U	
	39 ft	VMP-12-39-041911	4/19/2011	<29	U		180			<180	U		1200			<69	U		7800			9.7	J		<17	U		<15	U	
		VMP-12-39-012412	1/24/2012	<61	U		280			<370	U		1900			<140	U		12000			<43	U		<36	U		<32	U	
		VMP-12-39-041912	4/19/2012	<30	U		150			<190	U		840			<72	U		8200			<22	U		<18	U		<16	U	
		VMP-12-39-072612	7/26/2012	<14	U		26			<86	U		240			<33	U		5400			<9.9	U		<8.2	U		<7.2	U	
		VMP-12-39-102412	10/24/2012	<37	U		<22	U		<230	U		58			<87	U		2000			<26	U		<22	U		2 2	J	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	<0.062	U		0.0094	J		<0 38	U		0 015	J		<0.14	U					<0.043	U		<0.036	U		<0.032	U	
		VMP-13-5-120110	12/1/2010	<0 0081	U		0 084			<0 05	U		0.14			<0.019	U					0 0037	J		<0 0048	U		<0 0042	J	U
		VMP-13-5-021811	2/18/2011	<0 0096	U		0.0016	J		<0.059	U		0.0022	J		0.00065	J					<0 0068	U		<0 0056	U		<0.005	U	
		VMP-13-5-040511	4/5/2011	<0.019	U		0 007	J		<0.12	U		0.0088	J		<0.045	U		0 021	J		<0.014	U		<0.011	U		<0 01	U	
		VMP-13-5-080911	8/9/2011	<0.021	U		<0.012	U		<0.13	U		0.0065	J		<0.048	U		3		J	0 039		J	0.12		J	<0.011	U	
		VMP-13-5-080911-DUP	8/9/2011	<0.018	U		<0.011	U		<0.11	U		0.0098			0 0024	J		2		J	0 026		J	0.081		J	<0 0095	U	
		VMP-13-5-111411	11/14/2011	<0 0064	U		0 002	J		<0.039	U		0 00093	J		<0.015	U		0 0017	J		0 0046			0.031			<0 0033	U	
		VMP-13-5-012712	1/27/2012	<0.054	U		0 035		J	<0 33	U		0.18		J	<0.13	U		0.64		J	0 0062	J	J	0 0095	J	J	<0.028	U	
		VMP-13-5-042012	4/20/2012	<0 0062	U		<0 0037	U		<0.038	U		<0 0032	U		0 0012	J		0 0025	J		0 015			0.048			<0 0032	U	
		VMP-13-5-071912	7/19/2012	<0 0065	U		0.0053			<0 04	U		0.0061			<0.015	U		0 0054	J		<0 0046	J	U	0 0037	J		<0 0034	U	
		VMP-13-5-071912-Dup	7/19/2012	<0 0065	U		0.0058			<0 04	U		0.0054			<0.015	U		0 0053	J		<0 0046	J	U	0 0028	J		<0 0034	U	
		VMP-13-5-100912	10/9/2012	<0 01	U		0.0038	J		<0.062	U		0.0069			<0.024	U		0 0092	J		<0 0071	U		<0 0059	U		<0 0052	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	<0.023	U		0.0052	J		<0.14	U		0 028		J	<0.053	U					<0.016	U		<0.013	U		<0.012	U	
		VMP 13-10 5-091310-Dup	9/13/2010	<0.022	U		0.0072	J		<0.14	U		0 043		J	<0.052	U					<0.016	U		<0.013	U		<0.011	U	
		VMP-13-10.5-120110	12/1/2010	<0.009	U		0.0029	J		<0.055	U		0.0076			<0.021	U					<0 0064	U		<0 0053	U		<0 0047	J	U
		VMP-13-10.5-120110-DUP	12/1/2010	<0 0094	U		0.0036	J		<0.058	U		0.01			<0.022	U					<0 0066	U		<0 0055	U		<0 0049	J	U
		VMP-13-10.5-021811	2/18/2011	<3.7	U		<2 2	U		<23	U		<1.9	U		<8.8	U					<2.6	U		<2.2	U		<1.9	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<3 6	U		<2.1	U		<22	U		<1.8	U		<8.4	U					<2.5	U		<2.1	U		<1.8	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0 0096	U		0 003	J		<0.059	U		0.0063			<0.023	U		0 017			<0 0068	U		<0 0056	U		<0.005	U	
		VMP-13-10.5-080911	8/9/2011	<0 21	U		<0.12	U		<1 3	U		0 3			<0.5	U		48			0 027	J		<0.12	U		<0.11	U	
		VMP-13-10.5-111411	11/14/2011	<0 0062	U		0.0018	J		<0.038	U		0.0013	J		<0.014	U		0 0086	J		0 0049			0 039			<0 0032	U	
		VMP-13-10.5-012712	1/26/2012	<0.017	U		0 015			<0.1	U		0 057		J	<0 04	U		0.13		J	0 0058	J		0 013			<0 0088	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.024	U		0 024			<0.15	U		0 088		J	<0.057	U		0.24		J	0 0065	J		0 015			<0.013	U	
		VMP-13-10.5-042012	4/20/2012	<0 0061	U		0.0012	J		<0.037	U		0 021			0 00085	J		0 013			0 014			0 038			<0 0032	U	
		VMP-13-10.5-071912	7/19/2012	<0 0065	U		0.0062			<0 04	U		0.0066			<0.015	U		0 012			<0 0046	U		0.00075	J		<0 0034	U	
		VMP-13-10.5-100912	10/9/2012	<0 0086	U		0.0014	J		<0.053	U		0 003	J		<0 02	U		0 0066	J		<0 0061	U		<0.005	U		<0 0044	U	
		VMP-13-10.5-100912-Dup	10/9/2012	<0 01	U		<0 0061	U		<0.063	U		<0 0052	U		<0.024	U		<0.017	U		<0 0073	U		<0 0061	U		<0 0053	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<17	U		<9 9	U		<100	U		2.1	J		<40	U					<12	U		<9.9	U		<8.7	U	
		VMP-13-21.5-120110	12/1/2010	<33	U		<19	U		<200	U		<16	U		<77	U					<23	U		<19	U		<17	U	
		VMP-13-21.5-021811	2/18/2011	<4 9	U		<2 9	U		<30	U		<2.5	U		<11	U					<3.4	U		<2.9	U		<2.5	U	
		VMP-13-21.5-040511	4/5/2011	<7.1	U		<4.1	U		<43	U		<3.6	U		<16	U		40			<5	U		<4.1	U		<3.6	U	
		VMP-13-21.5-080911	8/9/2011	<0 88	U		<0 52	U		<5.4	U		1			<2.1	U		100			<0 62	U		<0 52	U		<0.45	U	
		VMP-13-21.5-111411	11/14/2011	<4	U		<2.4	U		<24	U		<2	U		<9.4	U		63			<2.8	U		<2.4	U		<2.1	U	
		VMP-13-21.5-111411-DUP	11/14/2011	<4	U		<2.4	U		<24	U		0.98	J		<9.4	U		63			<2.8	U		<2.4	U		<2.1	U	
		VMP-13-21.5-012712	1/27/2012	<0 94	U		<0 55	U		<5.7	U		0.38	J	J	<2.2	U		49		J	<0 66	U		<0 55	U		0 075	J	J
		VMP-13-21.5-042012	4/20/2012	<0.1	U		<0.061	U		<0 64	U		0 083			<0 24	U		12			0 017	J		0 049	J		0 053		
		VMP-13-21.5-071912	7/19/2012	<0 0065	U		0.0089			<0 04	U		0.01			<0.015	U		0.37			<0 0046	J	U	0 011			0 0044		
		VMP-13-21.5-100912	10/9/2012	<0 01	U		<0 0062	U		<0.065	U		0.0026	J		<0.025	U		0.22			<0 0074	U		<0 0062	U		0 0092		
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<150	U		<88	U		<920	U		<76	U		<350	U					<110	U		<88	U		<78	U	
		VMP-13-29.5-040511	4/5/2011	<98	U		<57	U		<600	U		<49	U		<230	U		100	J		<69	U		<57	U		<50	U	
		VMP-13-29.5-013012	1/30/2012	<3	U		<1 8	U		<18	U		0.4	J	J	<7	U		77		J	<2.1	U		<1.8	U		<1.5	U	
		VMP-13-29.5-042012	4/20/2012	<3 9	U		<2 3	U		<24	U		1 5	J		<9.2	U		96			<2.8	U		<2.3	U		<2	U	
		VMP-13-29.5-071912	7/19/2012	<11	U		<6 6	U		<69	U		<5.7	U		<26	U		50			<7.9	U		<6.6	U		<5.8	U	
		VMP-13-29.5-100912	10/9/2012	<10	U		<6 2	U		<65	U		2 8	J		<25	U		74			<7.4	U		<6.2	U		4 8	J	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 3500			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 23000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0.43	U		<0 25	U		<2.6	U		0.55			<1	U					<0.3	U		<0 25	U		<0 22	U	
		VMP-14-5-120110	12/1/2010	<0 0084	U		0.0011	J		<0.051	U		0.0017	J		<0 02	U					<0 0059	U		<0.0049	U		0.00061	J	
		VMP-14-5-021711	2/17/2011	<0 0092	U		0 059			<0.056	U		0.1			<0.022	U					<0 0065	J	U	<0.0054	U		<0.0048	U	
		VMP-14-5-040511	4/5/2011	<0 0094	U		<0 0055	U		<0.057	U		0.0076			<0.022	U		1.7	E	J	<0 0066	U		<0.0055	U		0.00051	J	
		VMP-14-5-080811	8/8/2011	<9.8	U		10			<60	U		120			<23	U		4700			<6.9	U		<5.8	U		<5.1	U	
		VMP-14-5-111411	11/14/2011	<0.025	U		<0.014	U		<0.15	U		<0.012	U		<0.058	U		0 0097	J		0 0022	J		0.019			<0.013	U	
		VMP-14-5-042012	4/20/2012	<0.006	U		0.0054			<0.036	U		0 023			<0.014	U		0.063			0.013			0.096			<0.0031	U	
		VMP-14-5-072312	7/23/2012	<0 0072	U		0.0026	J		<0.044	U		<0 0036	U		0 006	J		<0.012	U		0.075			0.47			<0.0037	U	
		VMP-14-5-101012	10/10/2012	<0 01	U		<0 0059	U		<0.062	U		<0 0051	U		<0.024	U		<0.017	U		0 0061	J		0.037			<0.0052	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<6.7	U		<3.9	U		<41	U		4 6			<16	U					0.97	J		<3.9	U		<3.4	U	
		VMP-14-11.5-120110	12/2/2010	<0 59	U		<0 34	U		<3.6	U		0.27	J		<1.4	U					<0.41	U		<0 34	U		<0.3	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0 53	U		<0 31	U		<3.2	U		0.32			<1.2	U					<0 37	U		<0 31	U		<0 27	U	
		VMP-14-11.5-021711	2/17/2011	<0.19	U		<0.11	U		<1.2	U		<0.097	U		<0.45	U					<0.14	U		<0.11	U		<0.1	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.19	U		<0.11	U		<1.2	U		<0.097	U		<0.45	U					<0.14	U		<0.11	U		<0.1	U	
		VMP-14-11.5-040511	4/5/2011	<0.031	U		<0.018	U		<0.19	U		0.15			<0.073	U		43	E	J	<0.022	U		<0.018	U		<0.016	U	
		VMP-14-11.5-080811	8/8/2011	<0 97	U		<0 57	U		<5.9	U		1 2			<2.3	U		490			<0 68	U		<0 57	U		<0.5	U	
		VMP-14-11.5-111511	11/15/2011	<1.5	U		0.48	J		<9.2	U		7.7			<3.5	U		1000			<1.1	U		<0 88	U		<0.78	U	
		VMP-14-11.5-012612	1/26/2012	<6.2	U		<3.6	U		<38	U		63			<14	U		2400			<4.3	U		<3.6	U		<3.2	U	
		VMP-14-11.5-042312	4/23/2012	<0 0064	U		0.0054			<0.039	U		0 027		J	<0.015	U		0.071			0.008			0.054			<0.0033	U	
		VMP-14-11.5-042312-Dup	4/23/2012	<0 0064	U		0.0054			<0.039	U		0 016		J	<0.015	U		0.074			0 0059			0.045			<0.0033	U	
		VMP-14-11.5-072512	7/25/2012	<2.2	U		<1.3	U		<14	U		9 8			<5.3	U		830			<1.6	U		<1.3	U		<1.2	U	
		VMP-14-11.5-101012	10/10/2012	<0 0096	U		<0 0056	U		<0.059	U		0.0097			<0.023	U		0.094			<0 0068	U		<0.0056	U		<0.005	U	
	20 ft	VMP 14-20-091010	9/10/2010	<100	U		100			<620	U		700			<240	U					6.4	J		<60	U		<52	U	
		VMP 14-20-091010-Dup	9/10/2010	<100	U		98			<640	U		750			<250	U					<74	U		<62	U		<54	U	
		VMP-14-20-120110	12/2/2010	<270	U		130	J		<1700	U		800			<640	U					<190	U		<160	U		<140	U	
		VMP-14-20-021811	2/18/2011	<150	U		47	J		<940	U		320			<360	U					<110	U		<91	U		<80	U	
		VMP-14-20-040511	4/5/2011	<66	U		51			<400	U		350			<160	U		3200			<47	U		<39	U		<34	U	
		VMP-14-20-080811	8/8/2011	<24	U		70			<150	U		590			<56	U		6100			<17	U		<14	U		<12	U	
		VMP-14-20-111511	11/15/2011	<120	U		60	J		<760	U		640			<290	U		6600			<88	U		<73	U		<64	U	
		VMP-14-20-012612	1/26/2012	<12	U		79		J	<75	U		700		J	<29	U		6600			<8.6	U		<7.2	U		<6.3	U	
		VMP-14-20-042312	4/23/2012	<6.7	U		77			<41	U		570			<16	U		4900			0.67	J		<3.9	U		<3.4	U	
		VMP-14-20-072512	7/25/2012	<11	U		61			<65	U		480			<25	U		4700			<7.5	U		<6.2	U		<5.5	U	
		VMP-14-20-101612	10/16/2012	<49	U		49			<300	U		280			<120	U		3300			<35	U		<29	U		<25	U	
	29 ft	VMP-14-29-021811	2/18/2011	<220	U		110	J		<1400	U		530			<520	U					<160	U		<130	U		<120	U	
		VMP-14-29-040511	4/5/2011	<190	U		140			<1200	U		700			<450	U		4600			<140	U		<110	U		<100	U	
		VMP-14-29-012612	1/26/2012	<220	U		120	J		<1300	U		840			<510	U		7300			<150	U		<130	U		<110	U	
		VMP-14-29-042312	4/23/2012	<78	U		110			<480	U		650			<180	U		4700			<55	U		<46	U		<40	U	
		VMP-14-29-072512	7/25/2012	<82	U		100			<500	U		620			<190	U		5400			<58	U		<48	U		<42	U	
		VMP-14-29-101612	10/16/2012	<120	U		48	J		<750	U		300			<290	U		3000			<86	U		<72	U		<63	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	<0 0088	U		0.0059			<0.054	U		0 022			<0.021	U					<0 0062	U		<0 0052	U		<0 0045	U	
		VMP-15-5-113010	11/30/2010	<0 21	U		<0.12	U		<1.3	U		0.12			<0.49	U					<0.15	U		<0.12	U		<0.11	U	
		VMP-15-5-021611	2/16/2011	<0 2	U		<0.12	U		<1.2	U		<0.099	U		<0.46	U					<0.14	U		<0.12	U		<0.1	U	
		VMP-15-5-042011	4/20/2011	<0.46	U		<0 27	U		<2.8	U		<0 23	U		<2.7	U		140			<0 32	U		<2.7	U		<0 24	U	
		VMP-15-5-080811	8/8/2011	<0 01	U		0.0014	J		<0.063	U		0.0056			0 0016	J		0 014	J		0.01			0 07			<0 0054	U	
		VMP-15-5-111511	11/15/2011	<0.012	U		0 019			<0.071	U		0 048			<0.027	U		0.26			0 0072	J		0 03			<0.006	U	
		VMP-15-5-020112	2/1/2012	<0 06	U		<0.035	U		<0 36	U		<0 03	U		<0.14	U		0 014	J		0.03	J		0.049			<0.031	U	
		VMP-15-5-042412	4/24/2012	<0.061	U		<0.036	U		<0 37	U		<0.031	U		<0.14	U		0.25			0 0094	J		<0.036	U		<0.032	U	
		VMP-15-5-072512	7/25/2012	<0 0069	U		<0.004	U		<0.042	U		0 012			0 0037	J		0 0034	J		0.03			0 06			<0 0036	U	
		VMP-15-5-102512	10/25/2012	<0 01	U		0.0033	J		<0.063	U		0.0066			<0.024	U		0.1			0 052			0.11			<0 0054	U	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<0 96	U		<0 56	U		<5.8	U		<0.48	U		<2.2	U					<0 67	U		<0 56	U		<0.49	U	
		VMP-15-21.5-113010	11/30/2010	<1.1	U		<0 66	U		<6.8	U		<0 56	U		<2.6	U					<0.79	U		<0 66	U		<0 58	U	
		VMP-15-21.5-021611	2/16/2011	<0.78	U		<0.46	U		<4.8	U		1 9			<1.8	U					<0 55	U		<0.46	U		<0.4	U	
		VMP-15-21.5-042011	4/20/2011	<1 2	U		<0.72	U		<7.5	U		<0 62	U		<7.2	U		190			<0 86	U		<7.2	U		<0 63	U	
		VMP-15-21.5-080811	8/8/2011	<0 98	U		<0 58	U		<6	U		<0.5	U		<2.3	U		130			<0 69	U		<0 58	U		<0 51	U	
		VMP-15-21.5-111511	11/15/2011	<0.79	U		<0.46	U		<4.8	U		<0.4	U		<1.8	U		100			<0 55	U		<0.46	U		<0.4	U	
		VMP-15-21.5-020112	2/1/2012	<0 59	U		<0 34	U		<3.6	U		<0.3	U		<1.4	U		7 9		J	<0.41	U		<0 34	U		<0.3	U	
		VMP-15-21.5-042412	4/24/2012	<0 26	U		<0.15	U		<1.6	U		<0.13	U		<0.6	U		9 8			<0.18	U		<0.15	U		<0.13	U	
		VMP-15-21.5-072512	7/25/2012	<0 93	U		<0 54	U		<5.6	U		0 097	J		<2.2	U		4 2			<0 65	U		<0 54	U		<0.48	U	
		VMP-15-21.5-102512	10/25/2012	<1 5	U		<0 89	U		<9.2	U		<0.76	U		<3.5	U		6 2			<1.1	U		<0 89	U		<0.78	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<1 6	U		<0 91	U		<9.5	U		<0.78	U		<3.6	U		6.4			<1.1	U		<0 91	U		<0.8	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	<0.009	U		0.0039	J		<0.055	U		0 011			<0.021	U					<0 0063	U		<0 0053	U		<0 0046	U	
		VMP-15-25.5-021611	2/16/2011	<0.12	U		<0 07	U		<0.73	U		<0.061	U		<0 28	U					<0.084	U		<0 07	U		<0.062	U	
		VMP-15-25.5-042011	4/20/2011	<0.098	U		<0.058	U		<0.6	U		0 046	J		<0 58	U		0.42		J	<0.069	U		<0 58	U		<0.051	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.092	U		<0.054	U		<0 56	U		0 035	J		<0 54	U		2 5		J	<0.065	U		<0 54	U		<0.048	U	
		VMP-15-25.5-080811	8/8/2011	<0.098	U		<0.058	U		<0.6	U		<0 05	U		<0 23	U		4 8			0 022	J		<0.058	U		<0.051	U	
		VMP-15-25.5-111511	11/15/2011	<0 03	U		0 013	J		<0.18	U		0 097			<0.071	U		4 3			0 0026	J		0.044			<0.016	U	
		VMP-15-25.5-073112	7/31/2012	<0.064	U		<0.037	U		<0 39	U		<0.032	U		<0.15	U		12			0 032	J		0.062			<0.033	U	
		VMP-15-25.5-102512	10/25/2012	<0 01	U		<0 0061	U		<0.063	U		<0 0052	U		<0.024	U		0.72			0.049			0.14			<0 0054	U	
	29 ft	VMP-15-29-073112	7/31/2012	<0 27	U		<0.16	U		<1.7	U		<0.14	U		<0 64	U		110			0.06	J	J	<0.16	U		<0.14	U	
		VMP-15-29-102512	10/25/2012	<0.022	U		<0.013	U		<0.13	U		0 013			<0.051	U		2.1			0 075			0 23			<0.011	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene) 3500			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE) 23000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<17	U		14			<100	U		6 3	J		<39	U					14			<9.7	U		2.7	J	
		VMP-16-5-112910	11/29/2010	<7.6	U		<4.5	U		<46	U		<3.8	U		<18	U					4 2	J	J	<4.5	U		1.2	J	J
		VMP-16-5-021511	2/15/2011	<4.6	U		<2.7	U		<28	U		45		J	<11	U					<3.2	U		<2.7	U		<2.4	U	
		VMP-16-5-042211	4/22/2011	<6.2	U		<3.6	U		<38	U		4 8			<36	U		4800			<4.3	U		<36	U		1.9	J	
		VMP-16-5-080511	8/5/2011	<2	U		<1.2	U		<12	U		1.4			<4.6	U		760			<1.4	U		<1.2	U		0 29	J	
		VMP-16-5-042512	4/25/2012	<6.7	U		<3.9	U		<41	U		<3.4	U		<16	U		2400			<4.7	U		<3.9	U		0 83	J	
		VMP-16-5-073012	7/30/2012	<6.2	U		<3.7	U		<38	U		<3.2	U		<15	U		1400		J	0.58	J	J	<3.7	U		0 84	J	J
		VMP-16-5-102512	10/25/2012	<4.9	U		<2.9	U		<30	U		<2.5	U		<12	U		120			<3.5	U		<2.9	U		<2.5	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	<17	U		13			<100	U		6 6	J	J	<40	U					15			<10	U		2.9	J	
		VMP-16-13.5-090210-DUP	9/2/2010	<17	U		12			<100	U		9.7		J	<40	U					16			<10	U		3.1	J	
		VMP-16-13.5-112910	11/29/2010	<49	U		<29	U		<300	U		<25	U		<110	U					<34	U		<29	U		<25	U	
		VMP-16-13.5-021611	2/16/2011	<9.4	U		<5.5	U		<57	U		12			<22	U					<6.6	U		<5.5	U		<4.8	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<9.2	U		<5.4	U		<56	U		10			<22	U					<6.5	U		<5.4	U		<4.8	U	
		VMP-16-13.5-042211	4/22/2011	<9.9	U		<5.8	U		<60	U		5			<58	U		4800			<7	U		<58	U		2.6	J	
		VMP-16-13.5-080511	8/5/2011	<0 96	U	UJ	<0 56	U	UJ	<5.9	U	UJ	5 8		J	<2.3	U	UJ	190		J	<0 68	U	UJ	<0 56	U	UJ	0 29	J	J
		VMP-16-13.5-042512	4/25/2012	<1.1	U		<0 62	U		<6.5	U		<0 54	U		<2.5	U		5200			0 8		J	<0 62	U		<0 55	U	
		VMP-16-13.5-073012	7/30/2012	<32	U		<19	U		<200	U		9	J		<75	U		4100			<22	U		<19	U		2.7	J	
		VMP-16-13.5-102512	10/25/2012	<98	U		<58	U		<600	U		<50	U		<230	U		2500			<69	U		<58	U		<51	U	
	19 ft	VMP-16-19-090210	9/2/2010	<17	U		14			<100	U		7 5	J		<40	U					24			<10	U		3.1	J	
		VMP-16-19-112910	11/29/2010	<38	U		<22	U		<230	U		<19	U		<88	U					9.4	J		<22	U		<19	U	
		VMP-16-19-021611	2/16/2011	<9	U		<5.3	U		<55	U		7.4			<21	U					<6.3	U		<5.3	U		<4.6	U	
		VMP-16-19-042711	4/27/2011	<9.2	U		<5.4	U		<56	U		1 8	J		<54	U		2800			<6.5	U		<54	U		1 2	J	
		VMP-16-19-042711-DUP	4/27/2011	<9	U		<5.3	U		<55	U		1.7	J		<53	U		2800			<6.3	U		<53	U		1 3	J	
		VMP-16-19-042512	4/25/2012	<25	U		<14	U		<150	U		<12	U		<58	U		5600			2 3	J		<14	U		4	J	
		VMP-16-19-073012	7/30/2012	<22	U		<13	U		<130	U		4 9	J		<52	U		5200			3 3	J		<13	U		3 3	J	
		VMP-16-19-102512	10/25/2012	<92	U		<54	U		<560	U		<46	U		<220	U		4100			<65	U		<54	U		<48	U	
	31 ft	VMP-16-31-090310	9/3/2010	<0 01	U		<0 0059	U		<0.062	U		0.0028	J		<0.024	U					0 0037	J		<0 0059	U		0.014		
		VMP-16-31-112910	11/29/2010	<38	U		<22	U		<230	U		<19	U		<89	U					12	J		<22	U		<20	U	
		VMP-16-31-042512	4/25/2012	<30	U		<18	U		<180	U		<15	U		<70	U		6200			3 6	J		<18	U		4 8	J	
		VMP-16-31-073012	7/30/2012	<24	U		<14	U		<150	U		5 6	J		<57	U		6200			<17	U		<14	U		3 3	J	
		VMP-16-31-102512	10/25/2012	<110	U		<67	U		<700	U		<58	U		<270	U		4200			<81	U		<67	U		<59	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0 01	U		0 023			<0.062	U		0.41			<0.024	U					<0.007	U		<0.006	U		<0.005	U	
		VMP-17-5-DUP	6/21/2010	<0 01	U		0 019			<0.064	U		0.35			<0.024	U					<0.007	U		<0.006	U		<0.005	U	
		VMP-17-5-090110	9/1/2010	<0 0094	U		0 043			<0.057	U	UJ	0 088			<0.022	U					<0 0066	U		<0 0055	U		<0 0048	U	
		VMP-17-5-112210	11/22/2010	<0 0094	U		<0 0055	U		<0.057	U		0.0013	J		<0.022	U					<0 0066	U		<0 0055	U		<0 0048	U	
		VMP-17-5-020711	2/7/2011	<0 0088	U		0 016			<0.054	U		0.02			<0.021	U					<0 0062	U		<0 0052	U		<0 0045	U	
		VMP-17-5-040611	4/6/2011	<0.035	U		0 025			<0 22	U		0.11			<0.083	U		0.18			<0.025	U		<0.021	U		<0.018	U	
		VMP-17-5-080111	8/1/2011	<0.13	U		0 028	J		<0 82	U		0.24			<0 32	U		12			0 035	J		0.088			<0.069	U	
		VMP-17-5-110711	11/7/2011	<0.006	U		0.0009	J		<0.036	U		0 00088	J		0.00053	J		0 0054	J		0 0017	J		0.012			<0 0031	U	
		VMP-17-5-012612	1/26/2012	<0 0062	U		<0 0037	U		<0.038	U		0 00056	J		<0.015	U		0 0026	J		0 0056			0.039			<0 0032	U	
		VMP-17-5-041112	4/11/2012	<0 0064	U		0.0022	J		<0.039	U		0.0025	J		<0.015	U		0 0034	J		0 027			0.073			<0 0033	U	
		VMP-17-5-071112	7/11/2012	<0 0068	U		0.0035	J		<0.042	U		0.0047			<0.016	J	U	0 025			0 039			0 25			<0 0035	U	
		VMP-17-5-100912	10/9/2012	<0 01	U		<0 0062	U		<0.065	U		<0 0053	U		<0.025	U		<0.018	U		<0 0074	U		<0 0062	U		<0 0055	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.084	U		0 6			<0 52	U		1 3			<0.2	U					0.28			<0 05	U		<0.044	U	
		VMP-25-5-040811	4/8/2011	<0.038	U		<0.022	U		<0 23	U		0 093			<0 09	U		0.27			<0.027	U		<0.022	U		0.019	J	
		VMP-25-5-080911	8/9/2011	<0 0081	U		0 034			<0 05	U		0.1			<0.019	U		0.53			0 0083			0.039			0 0023	J	
		VMP-25-5-111711	11/17/2011	<0 0059	U		<0 0034	U		<0.036	U		<0.003	U		<0.014	U		0 0036	J		0.00079	J		0 0037			<0.003	U	
		VMP-25-5-013112	1/31/2012	<0.043	U		0 072			<0 26	U		0.41			<0.1	U		6 3			0 0054	J		0 082			<0.022	U	
		VMP-25-5-042512	4/25/2012	<0 0067	U		0.0016	J		<0.041	U		0.0024	J		<0.016	U		0 0041	J		0 024			0.086			<0 0034	U	
		VMP-25-5-072612	7/26/2012	<0.023	U		0.18			<0.14	U		0.51			<0.054	U		3			0 024			0 098			<0.012	U	
		VMP-25-5-102612	10/26/2012	<0 0094	U		<0 0055	U		<0.057	U		<0 0047	U		<0.022	U		0 014	J		0 013			0.018			<0 0048	U	
	21 ft	VMP-25-21-031511	3/15/2011	<16	U		420		J	<100	U		1700		J	<39	U					4 3	J		<9.7	U		<8.5	U	
		VMP-25-21-031511-DUP	3/15/2011	<21	U		650		J	<130	U		2700		J	<50	U					6.7	J		<12	U		<11	U	
		VMP-25-21-040811	4/8/2011	<180	U		480			<1100	U		2100			<410	U		23000			<120	U		<100	U		<91	U	
		VMP-25-21-040811-DUP	4/8/2011	<180	U		510			<1100	U		2100			<420	U		23000			<120	U		<100	U		<92	U	
		VMP-25-21-080911	8/9/2011	<58	U		700			<350	U		2800			<140	U		19000			9.7	J		<34	U		<30	U	
		VMP-25-21-111711	11/17/2011	<79	U		120			<480	U		840			<180	U		14000			<55	U		<46	U		<40	U	
		VMP-25-21-111711-DUP	11/17/2011	<120	U		110			<710	U		800			<270	U		14000			<82	U		<68	U		<60	U	
		VMP-25-21-013112	1/31/2012	<41	U		310			<250	U		1700			<96	U		20000			<29	U		<24	U		<21	U	
		VMP-25-21-013112-DUP	2/1/2012	<38	U		370			<230	U		1900			<89	U		22000			<27	U		<22	U		<20	U	
		VMP-25-21-042512	4/25/2012	<26	U		300			<160	U		1900			<61	U		21000			<18	U		<15	U		<13	U	
		VMP-25-21-072612	7/26/2012	<44	U		330			<270	U		2200			<100	U		22000			<31	U		<26	U		<23	U	
		VMP-25-21-102612	10/26/2012	<260	U		350			<1600	U		2000			<620	U		20000			<180	U		<150	U		<140	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	<0 074	U		<0.043	U		<0.45	U		<0.037	U		<0.17	U		<0.12	U		0 025	J		0 082			<0.038	U	
		VMP-29-10-100812	10/8/2012	<0.13	U		<0.077	U		<0 8	U		<0.066	U		<0 31	U		<0 22	U		<0.092	U		0 059	J		<0.068	U	
	20 ft	VMP-29-20-073012	7/30/2012	<0 88	U		<0 51	U		<5.4	U		<0.44	U		<2	U		<1.5	U		<0 62	U		<0 51	U		<0.45	U	
		VMP-29-20-073012-Dup	7/30/2012	<0 82	U		<0.48	U		<5	U		<0.41	U		<1.9	U		<1.4	U		<0 58	U		<0.48	U		<0.42	U	
		VMP-29-20-100812	10/8/2012	<0.13	U		<0.077	U		<0 8	U		<0.066	U		<0 31	U		<0 22	U		<0.092	U		0 093			<0.068	U	
	30 ft	VMP-29-30-073012	7/30/2012	<0.14	U		<0.084	U		<0 88	U		<0.073	U		<0 34	U		0.09	J		0 031	J		0 091			<0.074	U	
		VMP-29-30-100812	10/8/2012	<0 65	U		<0 38	U		<3 9	U		0.1	J		<1.5	U		0.46	J		<0.45	U		<0 38	U		<0 33	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Freon 114			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Methyl tert-Butyl Ether (MTBE)		
																						3500						23000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	<0 26	U		<0.15	U		<1.6	U		<0.13	U		<0 61	U		<0.44	U		<0.18	U		<0.15	U		<0.13	U	
		VMP-30-10-100812	10/8/2012	<0 0098	U		0.0028	J		<0 06	U		0.00099	J		<0.023	U		0.014	J		0 0078			0.051			<0.0051	U	
	20 ft	VMP-30-20-073012	7/30/2012	<1.1	U		<0 65	U		<6.8	U		<0 56	U		<2.6	U		<1.9	U		<0.78	U		<0 65	U		<0 57	U	
		VMP-30-20-100812	10/8/2012	<0.4	U		<0 24	U		<2.5	U		<0.2	U		<0 95	U		0.18	J		<0 28	U		<0 24	U		<0 21	U	
	30 ft	VMP-30-30-073012	7/30/2012	<1.1	U		<0 67	U		<7	U		<0 58	U		<2.7	U		0.31	J		<0.8	U		<0 67	U		<0 59	U	
		VMP-30-30-100812	10/8/2012	<0 84	U		<0.49	U		<5.1	U		0.11	J		<2	U		1	J		<0 59	U		<0.49	U		<0.43	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	<0 0085	U		0.0099			<0.052	U		0 011			0 0028	J		0.12			0 04			0.16			<0.0044	U	
		VMP-41-10-100912	10/9/2012	<0 01	U		0.0025	J		<0.063	U		<0 0052	U		<0.024	U		<0.017	U		0.021			0.1			<0.0053	U	
	20 ft	VMP-41-20-072712	7/27/2012	<0 0065	U		0.0028	J		<0 04	U		<0 0033	U		0 0017	J		<0.011	U		0.025			0.089			<0.0034	U	
		VMP-41-20-072712-Dup	7/27/2012	<0 0067	U		0.0015	J		<0.041	U		0.00086	J		0 0014	J		<0.011	U		0.025			0 09			<0.0034	U	
		VMP-41-20-100912	10/9/2012	<0 01	U		0.0024	J		<0.062	U		0 001	J		0 0014	J		<0.017	U		0.019			0.079			<0.0052	U	
		VMP-41-20-100912-Dup	10/9/2012	<0 01	U		0 002	J		<0.063	J	U	<0 0052	U		<0.024	U		<0.017	U		0.021			0.084			<0.0053	U	
	30 ft	VMP-41-30-072712	7/27/2012	<0 0067	U		0.0081			<0.041	U		0.0062			0 0039	J		0.039			0.011			0.1			<0.0034	U	
		VMP-41-30-100912	10/9/2012	<0.011	U		0.0024	J		<0.066	U		0.0013	J		<0.025	U		<0.018	U		0.013			0.041			<0.0056	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										8500						4						40000			50			41000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	0.02			0.0035	J		0.0029	J		<0 0091	U		0 0017	J		<0 0039	U		0.014			<0.039	U		<0.0072	U	
		VMP-10-5-111810	11/17/2010	<0.012	U		<0 0059	U		0.0024	J		<0 0083	U		<0 0082	J	U	<0 0036	U		<0 0046	U		<0.036	U		0.00085	J	
		VMP-10-5-021011	2/10/2011	0.0058	J		<0 0058	U		<0 0051	U		<0 0082	U		<0 0081	U		<0 0035	U		0 0028	J		<0.035	U		<0.0065	U	
		VMP-10-5-040511	4/5/2011	0 065			<0 0054	J	U	<0 0047	U		<0 0076	U		<0 0075	J	U	0 0062			0 0082			<0.033	J	U	<0.006	U	
		VMP-10-5-07/2911	7/29/2011	0 023			<0 0066	U		0.00097	J		<0 0092	U		<0 0091	U		0 0014	J		0.009			<0 04	U		<0.0073	U	
		VMP-10-5-110411	11/4/2011	0 016			<0 0034	U		<0.003	U		<0 0048	U		<0 0047	U		<0.002	U		0.011			<0.021	U		<0.0038	U	
		VMP-10-5-012512	1/26/2012	0.0024	J		<0 0043	U		<0 0037	U		<0.006	U		0 0018	J		<0 0026	U		0 0037			<0.026	U		<0.0048	U	
		VMP-10-5-041212	4/12/2012	0 073			<0 0046	U		<0.004	U		<0 0064	U		<0 0064	U		0.016			0.032			<0.028	U		<0.0051	U	
		VMP-10-5-071312	7/13/2012	0.0023	J		<0 0047	U		<0 0041	U		<0 0066	U		<0 0065	U		0 0073			<0 0036	J	U	<0.029	U		<0.0053	U	
		VMP-10-5-101612	10/16/2012	<0.015	U		<0 0074	J	U	<0 0064	U		<0 01	U		<0 01	U		<0 0045	U		0 0014	J		<0.045	U		<0.0083	U	
	10 ft	VMP-10-10-090710	9/7/2010	0.01	J		<0 0065	U		<0 0056	U		<0 0091	U		0 0024	J		<0 0039	U		0 0014	J		<0.039	U		<0.0072	U	
		VMP-10-10-111810	11/17/2010	0 018			<0 0063	U		0.0022	J		<0 0088	U		0 0026	J		0 0023	J		0 0019	J		<0.038	U		0 0013	J	
		VMP-10-10-021111	2/11/2011	0.11			<0.005	J	U	<0 0043	U		<0 0069	U		0.00083	J		0 0023	J		0 0035	J		<0 03	U		<0.0055	U	
		VMP-10-10-040611	4/6/2011	<0.013	U		<0 0065	J	U	<0 0056	U		<0 0091	U		<0.009	J	U	<0 0039	U		0 0018	J		<0.039	J	U	<0.0072	U	
		VMP-10-10-072911	7/29/2011	0 036			<0 0068	U		0.0015	J		<0 0095	U		<0 0094	U		0.002	J		0.024			<0.041	U		<0.0075	U	
		VMP-10-10-110411	11/4/2011	0.0061	J		0 00047	J		<0 0038	U		<0 0061	U		<0 0061	J	U	<0 0026	U		0 01			<0.026	U		<0.0049	U	
		VMP-10-10-110411-DUP	11/4/2011	0.0057	J		0 00049	J		<0 0038	U		<0 0061	U		<0 0061	J	U	<0 0026	U		0 01			<0.026	U		<0.0049	U	
		VMP-10-10-012512	1/26/2012	0.0072	J		0.0025	J		<0 0037	U		<0.006	U		<0 0059	U		0.011			0 0034			<0.026	U		<0.0048	U	
		VMP-10-10-012512-DUP	1/26/2012	0.0066	J		0 00099	J		<0 0039	U		<0 0063	U		<0 0062	U		0.012			0 0032	J		<0.027	U		<0.005	U	
		VMP-10-10-041112	4/11/2012	0.18			<0 0047	J	U	<0 0041	U		<0 0066	U		<0 0065	J	U	0.055			0.07			<0.028	U		<0.0052	U	
		VMP-10-10-071312	7/13/2012	0 014			<0 0046	U		<0.004	U		<0 0064	U		<0 0064	U		0.006			<0 0035	J	U	<0.028	U		<0.0051	U	
		VMP-10-10-101612	10/16/2012	<0.016	U		<0 0078	J	U	<0 0067	U		<0.011	U		<0.011	U		<0 0046	U		<0.006	J	U	<0.047	U		<0.0086	U	
	20 ft	VMP-10-20-090710	9/7/2010	0 023			<0 0068	U		<0 0059	U		<0 0095	U		<0 0094	U		0 0036	J		0.005	J		<0.041	U		<0.0075	U	
		VMP-10-20-090710-DUP	9/7/2010	0 033			<0 0063	U		<0 0055	U		<0 0088	U		0 0007	J		0 0042			0 0098			<0.038	U		<0.007	U	
		VMP-10-20-111810	11/17/2010	<0.024	U		<0.012	U		<0 01	U		<0.017	U		<0.016	J	U	<0 0072	U		<0 0092	U		<0.072	U		0 0024	J	
		VMP-10-20-111810-Dup	11/17/2010	0 037			<0 0061	U		0.0025	J		<0 0085	U		<0 0084	J	U	<0 0036	U		0 0012	J		<0.037	U		0 0011	J	
		VMP-10-20-021111	2/11/2011	0.0048	J		<0.006	U		<0 0052	U		<0 0084	U		0.002	J		<0 0036	U		0 0064			<0.036	U		<0.0066	U	
		VMP-10-20-040611	4/6/2011	0 054			<0 0072	U		<0 0063	U		<0 01	U		<0 01	J	U	<0 0043	U		0.026			<0.044	J	U	<0.008	U	
		VMP-10-20-072911	7/29/2011	0 024			<0 0067	U		0.0016	J		<0 0094	U		<0 0092	U		0 0014	J		0.014			<0 04	U		<0.0074	U	
		VMP-10-20-110411	11/4/2011	0 025			0 00042	J		0.0005	J		<0 0061	U		<0 0061	J	U	0 0023	J		0.015			<0.026	U		<0.0049	U	
		VMP-10-20-012612	1/26/2012	0.0024	J		<0 0041	U		<0 0036	U		<0 0058	U		<0 0057	U		0.02			0 0056			<0.025	U		<0.0046	U	
		VMP-10-20-041212	4/12/2012	0.03			<0 0046	U		<0.004	U		<0 0064	U		<0 0064	U		0 0077			0 01			<0.028	U		<0.0051	U	
		VMP-10-20-071612	7/16/2012	0.0014	J		<0 0044	U		<0 0038	U		<0 0061	U		<0 0061	U		0 0041			<0 0034	J	U	<0.026	U		<0.0049	U	
		VMP-10-20-101612	10/16/2012	<0.016	U		<0 0078	J	U	<0 0068	U		<0.011	U		<0.011	U		<0 0047	U		<0.006	J	U	<0.047	U		<0.0087	U	
	30 ft	VMP-10-30-041212	4/12/2012	0 2			<0 0048	U		<0 0042	U		<0 0067	U		<0 0066	U		0.047			0 09			<0.029	U		<0.0053	U	
		VMP-10-30-071612	7/16/2012	0.0012	J		<0 0042	U		<0 0037	U		<0 0059	U		<0 0059	U		0 0046			0 0049			<0.026	U		<0.0047	U	
		VMP-10-30-101612	10/16/2012	0.01	J		<0 0074	U		<0 0064	U		<0 01	U		<0 01	U		0 0014	J		0 0077			<0.044	U		<0.0082	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	<0.013		U	0 00087	J		<0 0053	U		<0 0085	U		<0 0084	U		<0 0036	U		0.003	J		<0.037	U		<0.0067	U	
		VMP-11-5-112210	11/22/2010	0 078			<0 0063	U		0 006			<0 0088	U		<0 0088	U		<0 0038	U		0 0024	J		<0.038	U		<0.007	U	
		VMP-11-5-021511	2/15/2011	0.0096	J		<0 0056	J	U	<0 0048	U		<0 0078	U		<0 0077	U		<0 0034	U		0 0069			<0.034	U		<0.0062	U	
		VMP-11-5-040611	4/6/2011	<0.11	U		<0.053	U		<0.046	U		<0.074	U		<0.073	U		<0.032	U		0 0087	J		<0 32	U		<0.059	U	
		VMP-11-5-080711	8/7/2011	0 068	J		<0.073	U		<0.063	U		<0.1	U		<0.1	U		<0.044	U		0.021	J		<0.44	U		<0.081	U	
		VMP-11-5-111111	11/11/2011	<0.029	U		<0.014	U		<0.012	U		<0 02	U		<0 02	U		<0 0086	U		0.01	J		<0.087	U		<0.016	U	
		VMP-11-5-012612	1/26/2012	0 012			<0 0043	U		<0 0037	U		<0.006	U		<0 0059	U		<0 0026	U		0 0054			<0.026	U		<0.0048	U	
		VMP-11-5-041912	4/19/2012	0 062			0.0022	J		0.0016	J		<0 0067	U		0 0047	J		0 0088			0.036			<0.029	U		<0.0053	J	U
		VMP-11-5-071912	7/16/2012	0 012	J		<0 0062	U		<0 0054	U		<0 0087	J	U	<0 0086	U		0 0038			0 0037	J		<0.038	U		<0.0069	U	
		VMP-11-5-101612	10/16/2012	0 047			<0.007	U		<0.006	U		<0 0097	U		<0 0096	U		0 0033	J		0 0036	J		<0.042	U		<0.0077	U	
	8 ft	VMP-11-8-090810	9/8/2010	<0.013	J	U	<0 0063	U		<0 0055	U		<0 0088	U		<0 0088	U		<0 0038	U		0 0025	J		<0.038	U		<0.007	U	
		VMP-11-8-112210	11/22/2010	0 033			<0 0063	U		0.0035	J		<0 0088	U		<0 0088	U		<0 0038	U		<0 0049	J	U	<0.038	U		<0.007	U	
		VMP-11-8-021111	2/11/2011	0.0044	J		<0 0061	U		<0 0053	U		<0 0086	U		<0 0085	U		<0 0037	U		<0 0047	U		<0.037	U		<0.0068	U	
		VMP-11-8-021111-DUP	2/11/2011	0.0062	J		<0 0058	U		<0.005	U		<0 0081	U		<0.008	U		<0 0035	U		<0 0044	U		<0.035	U		<0.0064	U	
		VMP-11-8-040611	4/6/2011	<0.054	U		<0.027	U		<0.024	U		<0.038	U		<0.038	U		<0.016	U		<0.021	U		<0.16	U		<0 03	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.047	U		<0.024	U		<0 02	U		<0.033	U		<0.033	U		<0.014	U		0 0034	J		<0.14	U		<0.026	U	
		VMP-11-8-080711	8/7/2011	0.11	J		<0.073	U		<0.063	U		<0.1	U		<0.1	U		<0.044	U		0.019	J		<0.44	U		<0.081	U	
		VMP-11-8-111411	11/14/2011	0 049			<0 0043	U		<0 0037	U		<0.006	U		0 0038	J		0 0011	J		0.013			<0.026	U		<0.0048	U	
		VMP-11-8-012612	1/26/2012	0.0092			<0 0042	U		<0 0036	U		<0 0059	U		<0 0058	U		<0 0025	U		0 0045			<0.025	U		<0.0047	U	
		VMP-11-8-041912	4/19/2012	0 068			0 00058	J		0.0014	J		<0 0067	U		0.006	J		0 0086			0.034			<0.029	U		<0.0053	J	U
		VMP-11-8-072012	7/20/2012	0.0062	J		<0 0048	U		<0 0042	U		<0 0067	U		<0 0066	U		0 0022	J		<0 0037	U		<0.029	U		<0.0053	U	
		VMP-11-8-101612	10/16/2012	0.97			<0.007	U		<0 0061	U		<0 0098	U		<0 0097	U		0.055			0.018			<0.042	U		<0.0078	U	
		VMP-11-8-101612-Dup	10/16/2012	1			<0 0071	U		<0 0062	U		<0 0099	U		<0 0098	U		0.06			0.016			<0.043	U		<0.0079	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0 32	U		0 059	J		<0.14	U		<0 22	U		<0 22	U		<0.095	U		<0.12	U		<0 96	U		<0.18	U	
		VMP-11-29-112210	11/22/2010	<4.5	U		<2.3	U		<2	U		<3.2	U		<3.1	U		<1.4	U		<1.7	U		<14	U		<2.5	U	
		VMP-11-29-112210-Dup	11/22/2010	<3.2	U		<1.6	U		<1.4	U		<2.2	U		0.69	J		<0 94	U		<1.2	U		<9.5	U		<1.7	U	
		VMP-11-29-021411	2/14/2011	0 023			<0 0061	U		<0 0053	U		<0 0086	U		0 0014	J		<0 0037	U		0 0027	J		<0.037	U		<0.0068	U	
		VMP-11-29-040611	4/6/2011	<0.093	U		<0.046	U		<0 04	U		<0.065	U		<0.064	U		<0.028	U		<0.036	U		<0 28	U		<0.052	U	
		VMP-11-29-082511	8/25/2011	0 033			<0 0068	U		0.00098	J		<0 0095	U		<0 0094	U		<0 0041	U		0 0079			<0.041	U		<0.0075	U	
		VMP-11-29-082511-Dup	8/25/2011	0 034			<0 0068	U		0.00091	J		<0 0095	U		<0 0094	U		0.001	J		0 0071			<0.041	U		<0.0075	U	
		VMP-11-29-111411	11/14/2011	0 018			<0 0043	U		<0 0037	U		<0.006	U		<0 0059	U		<0 0026	U		0.014			<0.026	U		<0.0048	U	
		VMP-11-29-012612	1/26/2012	0.0035	J		<0 0041	U		<0 0036	U		<0 0058	U		<0 0057	U		<0 0025	U		0 0028	J		<0.025	U		<0.0046	U	
		VMP-11-29-042712	4/27/2012	0 029			<0 0043	U		<0 0037	U		<0.006	U		0 0018	J		0 0031			0.012			<0.026	U		<0.0048	U	
		VMP-11-29-072012	7/23/2012	0 076			0.0011	J		0.0033	J		<0.006	U		<0 0059	U		0 0056			0.1			<0.026	U		<0.0048	U	
		VMP-11-29-101612	10/16/2012	0 018			<0 0073	U		<0 0063	U		<0 01	U		<0 01	U		<0 0044	U		0.002	J		<0.11	U	UJ	<0.0081	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0 64	U		<0 32	U		<0 28	U		<0.45	U		0 3	J		<0.19	U		<0 25	U		<1.9	U		<0 36	U	
		VMP-11-38-042312-Dup	4/23/2012	<2.2	U		<1.1	U		<0 98	U		<1.6	U		0.42	J		<0 68	U		<0 86	U		<6.8	U		<1.2	U	
		VMP-11-38-072312	7/23/2012	<1.1	U		<0 53	U		<0.46	U		<0.74	U		<0.74	U		<0 32	U		<0.41	U		<3.2	U		<0 59	U	
		VMP-11-38-101612	10/16/2012	0 015			<0 0074	U		<0 0064	U		<0 01	U		<0 01	U		<0 0044	U		<0 0056	J	U	<0.044	U		<0.0082	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										8500						4						40000			50			41000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	3 6	J		3	J		<5.7	U		<9.2	U		<9.1	U		<4	U		1	J		<40	U		<7.3	U	
		VMP-12-5-120310	12/3/2010	<130	U		20	J		<57	U		<91	U		<90	U		<39	U		<50	U		<390	U		<72	U	
		VMP-12-5-021511	2/15/2011	<6	U		<3	U		<2.6	U		<4.2	U		<4.1	U		<1.8	U		0.74	J		<18	U		<3.3	U	
		VMP-12-5-041911	4/19/2011	<44	UJ	UJ	<22	U		<19	U		<31	U		<30	U		<13	U	UJ	11	J		<130	U		<24	U	
		VMP-12-5-080411	8/4/2011	<11	U		<5.7	U		<4.9	U		<7.9	U		<7.8	U		<3.4	U		<4.4	U		<34	U		<6.3	U	
		VMP-12-5-111611	11/16/2011	0 013			<0.004	U		<0 0035	U		<0 0056	U		<0 0055	U		<0 0024	U		0 0083			<0.024	U		<0.0044	U	
		VMP-12-5-012412	1/24/2012	0 019	J		<0.045	U		<0.039	U		<0.063	U		<0.062	U		<0.027	U		0.016	J		<0 27	U		<0 05	U	
		VMP-12-5-041912	4/19/2012	0.0062	J		0.01			<0 0039	U		<0 0063	U		<0 0062	U		<0 0027	U		0.006			<0.027	U		<0.005	U	
		VMP-12-5-072612	7/26/2012	0.14		J	0 00081	J		0.00093	J		<0 0067	U		<0 0066	U		<0 0029	U		0.011		J	<0.029	U		<0.0053	U	
		VMP-12-5-072612-Dup	7/26/2012	0.0013	J	J	<0 0044	U		<0 0038	U		<0 0061	U		<0.006	U		<0 0026	U		0 0016	J	J	<0.026	U		<0.0048	U	
		VMP-12-5-102412	10/24/2012	0.0063	J		<0 0074	J	U	<0 0064	U		<0 01	U		0 0036	J		<0 0044	U		0.016			<0.044	U		<0.0082	U	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	2.4	J		11			<7.3	U		<12	U		<12	U		<5.1	U		1.1	J		<51	U		<9.4	U	
		VMP-12-11.5-120310	12/3/2010	<15	U		<7.3	U		<6.4	U		<10	U		<10	U		<4.4	U		<5.6	U		<44	U		<8.2	U	
		VMP-12-11.5-021511	2/15/2011	<13	U		2.4	J		<5.7	U		<9.2	U		<9.1	U		<4	U		1 5	J		<40	U		<7.3	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<11	U		1 9	J		<4.9	U		<7.9	U		<7.8	U		<3.4	U		1.7	J		<34	U		<6.3	U	
		VMP-12-11.5-041911	4/19/2011	<40	UJ	UJ	<20	U		<17	U		<28	U		<27	U		<12	U	UJ	<15	U		<120	U		<22	U	
		VMP-12-11.5-080411	8/4/2011	<14	U		<6.9	U		<6	U		<9.7	U		<9.6	U		<4.2	U		<5.3	U		<42	U		<7.7	U	
		VMP-12-11.5-111611	11/16/2011	<0.11	U		<0.055	U		<0.048	U		<0.077	U		<0.076	U		<0.033	U		0.014	J		<0 33	U		<0.061	U	
		VMP-12-11.5-012412	1/24/2012	<1	U		<0 52	U		<0.45	U		<0.72	U		<0.71	U		<0 31	U		0.21	J		<3.1	U		<0 57	U	
		VMP-12-11.5-041912	4/19/2012	<0.094	U		0 016	J		<0.041	U		<0.066	U		<0.065	U		<0.028	U		0.014	J		<0 28	U		<0.052	U	
		VMP-12-11.5-082012	8/20/2012	0 026			0.0016	J		0.0029	J		<0 01	U		<0 01	U		<0 0045	U		0.015			<0.045	U		<0.0083	U	
		VMP-12-11.5-102612	10/26/2012	0 016		J	<0 0071	U		<0 0062	U		<0 0099	U		<0 0098	U		<0 0043	U		0 0048	J		<0.11	U	UJ	<0.0079	U	
	25 ft	VMP-12-25-090310	9/3/2010	<22	U		26			<9.4	U		<15	U		<15	U		<6.5	U		2 9	J		<65	U		<12	U	
		VMP-12-25-120310	12/3/2010	<1.1	U		<0 54	U		<0.46	U		<0.75	U		<0.74	U		<0 32	U		<0.41	U		<3.2	U		<0 59	U	
		VMP-12-25-021511	2/15/2011	<26	U		9.7	J		<11	U		<18	U		<18	U		<7.8	U		12			<79	U		<14	U	
		VMP-12-25-041911	4/19/2011	<43	UJ	UJ	8.1	J		<18	U		<30	U		<29	U		<13	U	UJ	<16	U		<130	U		<24	U	
		VMP-12-25-080411	8/4/2011	<27	U		<14	U		<12	U		<19	U		<19	U		<8.1	U		<10	U		<82	U		<15	U	
		VMP-12-25-111611	11/16/2011	<31	U		<15	U		<13	U		<22	U		<21	U		<9.2	U		23			<93	U		<17	U	
		VMP-12-25-012412	1/24/2012	<12	U		<5.9	U		<5.1	U		<8.2	U		<8.1	U		<3.5	U		0.96	J	J	<36	U		<6.5	U	
		VMP-12-25-012412-DUP	1/24/2012	<86	U		<43	U		<37	U		<60	U		<59	U		<26	U		<33	U		<260	U		<48	U	
		VMP-12-25-041912	4/19/2012	<9	U		<4.5	U		<3.9	U		<6.3	U		<6.2	U		<2.7	U		<3.4	U		<27	U		<5	U	
		VMP-12-25-072712	7/27/2012	<9.9	U		<4.9	U		<4.3	U		<6.9	U		<6.8	U		<3	U		<3.8	U		<30	U		<5.5	U	
		VMP-12-25-072712-Dup	7/27/2012	<9.9	U		<4.9	U		<4.3	U		<6.9	U		<6.8	U		<3	U		<3.8	U		<30	U		<5.5	U	
		VMP-12-25-102512	10/25/2012	<4.2	U		<2.1	U		<1.8	U		<3	U		<2.9	U		<1.3	U		<1.6	U		<13	U	UJ	<2.4	U	
	39 ft	VMP-12-39-041911	4/19/2011	<41	UJ	UJ	10	J		<18	U		<29	U		<28	U		<12	U	UJ	<16	U		<120	U		<23	U	
		VMP-12-39-012412	1/24/2012	<86	U		<43	U		<37	U		<60	U		<59	U		<26	U		5.7	J		<260	U		<48	U	
		VMP-12-39-041912	4/19/2012	19	J		<22	U		<19	U		<30	U		<30	U		<13	U		8.4	J		<130	U		<24	U	
		VMP-12-39-072612	7/26/2012	1 6	J		<9.9	U		<8.6	U		<14	U		<14	U		<5.9	U		1.1	J		<60	U		<11	U	
		VMP-12-39-102412	10/24/2012	<52	U		<26	U		<22	U		<36	U		<36	U		<16	U		14	J		<160	U		<29	U	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	<0.086	U		<0.043	U		<0.037	U		<0 06	U		<0 06	U		<0.026	U		0.025	J		<0 26	U		<0.048	U	
		VMP-13-5-120110	12/1/2010	0 049			0 008			<0.005	U		<0.008	U		<0 0079	J	U	<0 0034	U		0.036			<0.034	U		<0.0064	U	
		VMP-13-5-021811	2/18/2011	0.0066	J		<0 0068	U		<0 0059	U		<0 0095	U		<0 0094	U		<0 0041	U		0.011			<0.041	U		<0.0075	U	
		VMP-13-5-040511	4/5/2011	<0.027	U		<0.014	U		<0.012	U		<0.019	U		<0.019	J	U	<0 0081	U		0 0026	J		<0.082	J	U	<0.015	U	
		VMP-13-5-080911	8/9/2011	0 021	J		<0.014	J	U	0.0025	J		<0 02	U		<0 02	U		<0 0087	U		0.023			<0.088	J	U	<0.016	U	
		VMP-13-5-080911-DUP	8/9/2011	0 048			<0.013	U		0.0013	J		<0.018	U		<0.018	U		<0 0078	U		0.022			<0.078	U		<0.014	U	
		VMP-13-5-111411	11/14/2011	0 012			<0 0045	U		<0 0039	U		<0 0063	U		<0 0062	U		<0 0027	U		0.011			<0.027	U		<0.005	U	
		VMP-13-5-012712	1/27/2012	0 017	J	J	<0.038	U		<0.033	U		<0.053	U		<0.052	U		<0.023	U		0 0098	J	J	<0 23	U		<0.042	U	
		VMP-13-5-042012	4/20/2012	0 032			<0 0044	U		<0 0038	U		<0 0061	U		<0 0061	U		0.004			0.012			<0.026	U		0.00044	J	
		VMP-13-5-071912	7/19/2012	0.91			<0 0046	J	U	0.0012	J		<0 0064	U		0 0024	J		0.026			0.023			<0.028	U		<0.0051	U	
		VMP-13-5-071912-Dup	7/19/2012	0.88			<0 0046	J	U	0.0014	J		<0 0064	U		0 0016	J		0.028			0.023			<0.028	U		<0.0051	U	
		VMP-13-5-100912	10/9/2012	<0.014	U		<0 0071	U		<0 0062	U		<0 0099	U		<0 0098	U		<0 0043	U		<0 0054	U		<0.043	U		<0.0079	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	0 013	J		<0.016	U		<0.014	U		<0.022	U		0 0073	J		<0 0096	U		0 0075	J		<0.097	U		<0.018	U	
		VMP 13-10 5-091310-Dup	9/13/2010	0 012	J		<0.016	U		<0.014	U		<0.022	U		0 0034	J		<0 0094	U		0 0074	J		<0.094	U		<0.017	U	
		VMP-13-10.5-120110	12/1/2010	0.1			<0 0064	U		<0 0055	U		<0 0089	U		<0 0088	J	U	<0 0038	U		0 0011	J		<0.038	U		0.001	J	
		VMP-13-10.5-120110-DUP	12/1/2010	0.13			<0 0066	U		<0 0058	U		<0 0093	U		<0 0092	J	U	<0.004	U		0.00092	J		<0 04	U		0 0011	J	
		VMP-13-10.5-021811	2/18/2011	<5.2	U		<2.6	U		<2.3	U		<3.7	U		<3.6	U		<1.6	U		<2	U		<16	U		<2.9	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<5.1	U		<2.5	U		<2.2	U		<3.5	U		<3.5	U		<1.5	U		<1.9	U		<15	U		<2.8	U	
		VMP-13-10.5-040511-DUP	4/5/2011	0.0022	J		<0 0068	U		<0 0059	U		<0 0095	U		<0 0094	J	U	<0 0041	U		0 0011	J		<0.041	J	U	<0.0075	U	
		VMP-13-10.5-080911	8/9/2011	<0.3	U		<0.15	U		<0.13	U		<0 21	U		<0.2	U		<0.089	U		<0.11	U		<0.9	U		<0.16	U	
		VMP-13-10.5-111411	11/14/2011	0 022			<0 0043	U		<0 0037	U		<0.006	U		<0.006	U		<0 0026	U		0.017			<0.026	U		<0.0048	U	
		VMP-13-10.5-012712	1/26/2012	<0.024	U		<0.012	U		<0 01	U		<0.017	U		<0.016	U		<0 0072	U		0 0046	J		<0.072	U		<0.013	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.034	U		<0.017	U		<0.015	U		<0.024	U		<0.024	U		<0 01	U		0 0047	J		<0.1	U		<0.019	U	
		VMP-13-10.5-042012	4/20/2012	0 049			0 00062	J		<0 0037	U		<0.006	U		<0 0059	U		0 0034			0.03			<0.026	J	U	<0.0048	J	U
		VMP-13-10.5-071912	7/19/2012	0.23			<0 0046	J	U	0.00079	J		<0 0064	U		0 0023	J		0.042			0 0082			<0.028	U		<0.0051	U	
		VMP-13-10.5-100912	10/9/2012	0 013			<0 0061	U		<0 0053	U		<0 0085	U		<0 0084	U		<0 0036	U		0 0087			<0.037	U		<0.0067	U	
		VMP-13-10.5-100912-Dup	10/9/2012	<0.014	U		<0 0073	U		<0 0063	U		<0 01	U		<0 01	U		<0 0044	U		0.00089	J		<0.044	U		<0.0081	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<24	U		<12	U		<10	U		<17	U		<16	U		<7.1	U		3.7	J		<72	U		<13	U	
		VMP-13-21.5-120110	12/1/2010	<46	U		<23	U		<20	U		<32	U		<32	U		<14	U		<18	U		<140	U		<26	U	
		VMP-13-21.5-021811	2/18/2011	1.7	J		<3.4	U		0.53	J		<4.8	U		<4.7	U		<2.1	U		0.54	J		<21	U		<3.8	U	
		VMP-13-21.5-040511	4/5/2011	<9.9	U		<5	U		<4.3	U		<6.9	U		<6.8	U		<3	U		<3.8	U		<30	U		<5.5	U	
		VMP-13-21.5-080911	8/9/2011	<1.2	U		<0 62	U		<0 54	U		<0 86	U		<0 85	U		<0 37	U		0.18	J		<3.7	U		<0 69	U	
		VMP-13-21.5-111411	11/14/2011	<5.6	U		<2.8	U		<2.4	U		<3.9	U		<3.9	U		<1.7	U		3 5			<17	U		<3.1	U	
		VMP-13-21.5-111411-DUP	11/14/2011	0.96	J		<2.8	U		<2.4	U		<3.9	U		<3.9	U		<1.7	U		3 6			<17	U		<3.1	U	
		VMP-13-21.5-012712	1/27/2012	<1.3	U		<0 66	U		<0 57	U		<0 92	U		<0 91	U		<0.4	U		<0.5	U		<4	U		<0.73	U	
		VMP-13-21.5-042012	4/20/2012	0.14	J		<0.073	U		0.04	J		<0.1	U		<0.1	U		<0.044	U		0.087			<0.44	U		<0.081	U	
		VMP-13-21.5-071912	7/19/2012	0.21			<0 0046	J	U	0.0013	J		<0 0064	U		0 0032	J		0.039			0.018			<0.028	U		<0.0051	U	
		VMP-13-21.5-100912	10/9/2012	<0.015	U		<0 0074	U		<0 0064	U		<0 01	U		<0 01	U		<0 0045	U		0 0012	J		<0.045	U		<0.0083	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<210	U		<110	U		<92	U		<150	U		<150	U		<64	U		16	J		<640	U		<120	U	
		VMP-13-29.5-040511	4/5/2011	<140	U		<69	U		<60	U		<96	U		<95	U		<41	U		19	J		<420	U		<76	U	
		VMP-13-29.5-013012	1/30/2012	<4.2	U		<2.1	U		<1.8	U		<2.9	U		<2.9	U		<1.3	U		11		J	<13	U		<2.3	U	
		VMP-13-29.5-042012	4/20/2012	2 9	J		<2.8	U		0.51	J		<3.8	U		<3.8	U		<1.6	U		1 3	J		<17	U		<3	U	
		VMP-13-29.5-071912	7/19/2012	<16	U		<7.9	U		<6.8	U		<11	U		<11	U		<4.7	U		<6.1	U		<48	U		<8.8	U	
		VMP-13-29.5-100912	10/9/2012	<15	U		<7.4	U		<6.4	U		<10	U		2	J		<4.5	U		1.4	J		<45	U		<8.3	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										8500						4						40000			50			41000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0 61	U		<0.3	U		<0 26	U		<0.42	U		<0.42	U		<0.18	U		<0 23	U		<1.8	U		<0 34	U	
		VMP-14-5-120110	12/1/2010	0.15			<0 0059	U		<0 0051	U		<0 0082	U		<0 0081	U		0 0025	J		<0 0045	U		<0.036	U		<0.0065	U	
		VMP-14-5-021711	2/17/2011	0.0053	J		<0 0065	J	U	<0 0056	U		<0 0091	U		<0.009	U		<0 0039	U		<0.005	J	U	<0.039	U		<0.0072	U	
		VMP-14-5-040511	4/5/2011	0 004	J		<0 0066	U		<0 0057	U		<0 0092	U		<0 0091	J	U	<0.004	U		0 0032	J		<0 04	J	U	<0.0073	U	
		VMP-14-5-080811	8/8/2011	<14	U		<6.9	U		<6	U		<9.6	U		<9.5	U		<4.1	U		<5.3	U		<42	U		<7.7	U	
		VMP-14-5-111411	11/14/2011	0.0088	J		<0.017	U		<0.015	U		<0.024	U		<0.024	U		<0 01	U		0 02			<0.1	U		<0.019	U	
		VMP-14-5-042012	4/20/2012	0 017			<0 0042	U		<0 0036	U		<0 0059	U		0 0025	J		0 0037			0.012			<0.025	U		<0.0047	U	
		VMP-14-5-072312	7/23/2012	0.11			0 00095	J		0.0034	J		<0 0071	U		0.002	J		0 0015	J		0.12			<0 03	U		<0.0056	U	
		VMP-14-5-101012	10/10/2012	0.0089	J		<0 0071	U		<0 0062	U		<0 0099	U		0.004	J		<0 0043	U		0 0078			<0.043	U		<0.0079	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<9.4	U		<4.7	U		<4.1	U		<6.6	U		<6.5	U		<2.8	U		<3.6	U		<28	U		<5.2	U	
		VMP-14-11.5-120110	12/2/2010	0.39	J		<0.41	U		<0 36	U		<0 58	U		<0 57	U		<0 25	U		<0 32	U		<2.5	U		<0.46	U	
		VMP-14-11.5-120110-DUP	12/2/2010	0.42	J		<0 37	U		<0 32	U		<0 52	U		<0 52	U		<0 22	U		0.15	J		<2.2	U		<0.41	U	
		VMP-14-11.5-021711	2/17/2011	<0 27	U		<0.14	U		<0.12	U		<0.19	U		<0.19	U		<0.081	U		<0.1	U		<0 82	U		<0.15	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0 27	U		<0.14	U		<0.12	U		<0.19	U		<0.19	U		<0.081	U		<0.1	U		<0 82	U		<0.15	U	
		VMP-14-11.5-040511	4/5/2011	<0.044	U		0.02	J		<0.019	U		<0.031	U		<0 03	U		<0.013	U		0.035			<0.13	U		<0 024	U	
		VMP-14-11.5-080811	8/8/2011	<1.4	U		<0 68	U		<0 59	U		<0 95	U		<0 94	U		<0.41	U		<0 52	U		<4.1	U		<0.76	U	
		VMP-14-11.5-111511	11/15/2011	0.42	J		<1.1	U		<0 92	U		<1.5	U		<1.5	U		<0 64	U		1 9			<6.4	U		<1.2	U	
		VMP-14-11.5-012612	1/26/2012	<8.6	U		<4.3	U		<3.7	U		<6	U		<6	U		<2.6	U		<3.3	U		<26	U		<4.8	U	
		VMP-14-11.5-042312	4/23/2012	0 024			<0 0045	U		<0 0039	U		<0 0063	U		0 0014	J		<0 0027	U		0.015		J	<0.027	U		<0 005	U	
		VMP-14-11.5-042312-Dup	4/23/2012	0.0073	J		<0 0045	U		<0 0039	U		<0 0063	U		<0 0062	U		<0 0027	U		0 0058		J	<0.027	U		<0 005	U	
		VMP-14-11.5-072512	7/25/2012	<3.2	U		<1.6	U		<1.4	U		<2.2	U		<2.2	U		<0 95	U		<1.2	U		<9.5	U		<1.8	U	
		VMP-14-11.5-101012	10/10/2012	0 012	J		<0 0068	U		<0 0059	U		<0 0095	U		<0 0094	U		<0 0041	U		0 0027	J		<0 041	U		<0.0075	U	
	20 ft	VMP 14-20-091010	9/10/2010	<140	U		<72	U		<62	U		<100	U		<99	U		<43	U		<55	U		<430	U		<79	U	
		VMP 14-20-091010-Dup	9/10/2010	<150	U		<74	U		<64	U		<100	U		<100	U		<44	U		<57	U		<450	U		<82	U	
		VMP-14-20-120110	12/2/2010	<380	U		<190	U		<170	U		<270	U		<260	U		<120	U		<150	U		<1200	U		<210	U	
		VMP-14-20-021811	2/18/2011	<220	U		<110	U		<94	U		<150	U		<150	U		<65	U		<83	U		<660	U		<120	U	
		VMP-14-20-040511	4/5/2011	<93	U		<47	U		<40	U		<65	U		<64	U		<28	U		<36	U		<280	U		<52	U	
		VMP-14-20-080811	8/8/2011	<34	U		<17	U		<15	U		<24	U		<23	U		<10	U		<13	U		<100	U		<19	U	
		VMP-14-20-111511	11/15/2011	<170	U		<88	U		<76	U		<120	U		<120	U		<52	U		34	J		<530	U		<97	U	
		VMP-14-20-012612	1/26/2012	1 2	J	J	<8.6	U		<7.4	U		<12	U		<12	U		<5.2	U		2 2	J	J	<52	U		<9.5	U	
		VMP-14-20-042312	4/23/2012	<9.4	U		<4.7	U		<4.1	U		<6.6	U		<6.5	U		<2.8	U		1 8	J		<28	U		<5.2	U	
		VMP-14-20-072512	7/25/2012	<15	U		<7.5	U		<6.5	U		<10	U		<10	U		<4.5	U		<5.7	U		<45	U		<8.3	U	
		VMP-14-20-101612	10/16/2012	<69	U		<35	U		<30	U		<48	U		<48	U		<21	U		8.7	J		<210	U		<38	U	
	29 ft	VMP-14-29-021811	2/18/2011	<320	U		<160	U		<140	U		<220	U		<220	U		<95	U		47	J		<950	U		<180	U	
		VMP-14-29-040511	4/5/2011	<270	U		<140	U		<120	U		<190	U		<190	U		<81	U		50	J		<820	U		<150	U	
		VMP-14-29-012612	1/26/2012	<310	U		<150	U		<130	U		<220	U		<210	U		<92	U		<120	U		<930	U		<170	U	
		VMP-14-29-042312	4/23/2012	<110	U		<55	U		<48	U		<77	U		<76	U		<33	U		7 3	J		<330	U		<61	U	
		VMP-14-29-072512	7/25/2012	<120	U		<58	U		<50	U		<81	U		<80	U		<35	U		<44	U		<350	U		<64	U	
		VMP-14-29-101612	10/16/2012	<170	U		<86	U		<75	U		<120	U		<120	U		<52	U		9	J		<520	U		<96	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	0 018			<0 0062	U		<0 0054	U		<0 0086	U		0 0016	J		<0 0037	U		0 0018	J		<0.037	U		<0.0069	U	
		VMP-15-5-113010	11/30/2010	<0 29	U		0 065	J		<0.13	U		<0.2	U		<0.2	U		<0.088	U		<0.11	U		<0 89	U		<0.16	U	
		VMP-15-5-021611	2/16/2011	0.17	J		<0.14	U		0 036	J		<0.19	U		<0.19	U		<0.083	U		0.1	J		<0 84	U		<0.15	U	
		VMP-15-5-042011	4/20/2011	<0 65	U		<0 32	U		<2.8	U		<0.45	U		<0.45	U		<0.19	U		<0 25	U		<2	U		<0 36	U	
		VMP-15-5-080811	8/8/2011	0.04			<0 0073	J	U	0.0018	J		<0 01	U		0 0013	J		<0 0044	U		0.013			<0.044	J	U	<0.0081	U	
		VMP-15-5-111511	11/15/2011	0 036			0.0019	J		<0 0071	U		<0.011	U		<0.011	U		<0 0049	U		0.012			<0 049	U		<0 009	U	
		VMP-15-5-020112	2/1/2012	0 029	J		0 067			<0.036	U		<0.059	U		<0.058	U		<0.025	U		0.011	J		<0 25	U	UJ	<0 047	U	
		VMP-15-5-042412	4/24/2012	0.1			<0.043	U		<0.037	U		<0 06	U		<0.059	U		<0.026	U		0 01	J		<0 26	U		<0 048	U	
		VMP-15-5-072512	7/25/2012	0.0099			0.0012	J		0 004	J		<0 0068	U		<0 0067	U		<0 0029	U		0.026			<0 029	U		<0.0054	U	
		VMP-15-5-102512	10/25/2012	0 026			<0 0073	J	U	<0 0063	U		<0 01	U		0 0051	J		<0 0044	U		0.013			<0 044	U		<0.0081	U	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<1.3	U		<0 67	U		<0 58	U		<0 94	U		<0 93	U		<0.4	U		<0 52	U		<4.1	U		<0.75	U	
		VMP-15-21.5-113010	11/30/2010	<1.6	U		<0.79	U		<0 68	U		<1.1	U		<1.1	U		<0.47	U		<0.6	U		<4.8	U		<0 88	U	
		VMP-15-21.5-021611	2/16/2011	<1.1	U		<0 55	U		<0.48	U		<0.77	U		<0.76	U		<0 33	U		<0.42	U		<3.3	U		<0 61	U	
		VMP-15-21.5-042011	4/20/2011	<1.7	U		<0 86	U		<7.5	U		<1.2	U		<1.2	U		<0 52	U		<0 66	U		<5.2	U		<0 96	U	
		VMP-15-21.5-080811	8/8/2011	<1.4	U		<0 69	U		<0.6	U		<0 97	U		<0 96	U		<0.42	U		0.1	J		<4.2	U		<0.77	U	
		VMP-15-21.5-111511	11/15/2011	<1.1	U		<0 55	U		<0.48	U		<0.77	U		<0.76	U		<0 33	U		<0.42	U		<3.3	U		<0 61	U	
		VMP-15-21.5-020112	2/1/2012	<0 82	U		<0.41	U		<0 36	U		<0 58	U		<0 57	U		<0 25	U		<0 32	U		<2.5	U	UJ	<0.46	U	
		VMP-15-21.5-042412	4/24/2012	<0 36	U		<0.18	U		<0.16	U		<0 25	U		<0 25	U		<0.11	U		<0.14	U		<1.1	U		<0.2	U	
		VMP-15-21.5-072512	7/25/2012	0.12	J		<0 65	U		<0 56	U		<0 91	U		<0.9	U		<0 39	U		0.14	J		<3.9	U		<0.72	U	
		VMP-15-21.5-102512	10/25/2012	<2.1	U		<1.1	U		<0 92	U		<1.5	U		<1.5	U		<0 64	U		<0 82	U		<6.4	U	UJ	<1.2	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<2.2	U		<1.1	U		<0 95	U		<1.5	U		<1.5	U		<0 66	U		<0 84	U		<6.6	U	UJ	<1.2	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	0.0041	J		<0 0063	U		<0 0055	U		<0 0088	U		<0 0088	U		0 0033	J		0 0011	J		<0 038	U		<0 007	U	
		VMP-15-25.5-021611	2/16/2011	0 057	J		<0.084	U		<0.073	U		<0.12	U		<0.12	U		<0.051	U		<0.065	U		<0 51	U		<0 094	U	
		VMP-15-25.5-042011	4/20/2011	<0.14	U		<0.069	U		<0.6	U		<0.097	U		<0.096	U		<0.042	U		<0.053	U		<0.42	U		<0 077	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.13	U		<0.065	U		<0.56	U		<0.091	U		<0 09	U		<0.039	U		<0 05	U		<0 39	U		<0 072	U	
		VMP-15-25.5-080811	8/8/2011	<0.14	U		<0.069	U		<0 06	U		<0.097	U		<0.096	U		<0.042	U		0.022	J		<0.42	U		<0 077	U	
		VMP-15-25.5-111511	11/15/2011	0 033	J		<0.021	U		<0.018	U		<0 03	U		<0.029	U		<0.013	U		0.015	J		<0.13	U		<0 024	U	
		VMP-15-25.5-073112	7/31/2012	0 013	J		<0.045	U		<0.039	U		<0.063	U		<0.062	U		<0.027	U		0.051			<0 27	U		<0 05	U	
		VMP-15-25.5-102512	10/25/2012	0 026		J	<0 0073	U		0.00064	J		<0 01	U		<0 01	U		0 0014	J		0.011			<0.11	U	UJ	<0.0081	U	
	29 ft	VMP-15-29-073112	7/31/2012	0 024	J	J	<0.19	U		<0.17	U		<0 27	U		<0 26	U		<0.12	U		0.098	J	J	<1.2	U		<0 21	U	
		VMP-15-29-102512	10/25/2012	0 059		J	<0.015	U		0 0012	J		<0.021	U		<0.021	U		0 0024	J		0.016			<0 23	U	UJ	<0 017	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene (8500)			1,1,2,2-Tetrachloroethane			Tetrachloroethene (4)			Tetrahydrofuran			Toluene (40000)			1,2,4-Trichlorobenzene (50)			1,1,1-Trichloroethane (Methyl chloroform) (41000)		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<23	U		20			<10	U		<16	U		<16	U		<7	U		<9	U		<71	U		<13	U	
		VMP-16-5-112910	11/29/2010	<11	U		4.4	J	J	<4.6	U		<7.5	U		<7.4	U		<3.2	U		<4.1	U		<32	U		<5.9	U	
		VMP-16-5-021511	2/15/2011	<6.5	U		1.4	J	J	<2.8	U		<4.5	U		<4.5	U		<1.9	U		2.4	J	J	<20	U		<3.6	U	
		VMP-16-5-042211	4/22/2011	<8.6	U		<4.3	U		<37	U		<6	U		<6	U		<2.6	U		<3.3	U		<26	U		<4.8	U	
		VMP-16-5-080511	8/5/2011	<2.8	U		<1.4	U		<1.2	U		<1.9	U		<1.9	U		<0 83	U		<1	U		<8.3	U		<1.5	U	
		VMP-16-5-042512	4/25/2012	<9.4	U		<4.7	U		<4.1	U		<6.6	U		1.4	J		<2.8	U		<3.6	U		<28	U		<5.2	U	
		VMP-16-5-073012	7/30/2012	<8.8	U		0.67	J	J	<3.8	U		<6.1	U		<6.1	U		<2.6	U		0.31	J	J	<26	U		<4.9	U	
		VMP-16-5-102512	10/25/2012	<6.9	U		<3.5	U		<3	U		<4.8	U		<4.8	U		<2.1	U		0.18	J		<21	U		<3.8	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	<24	U		24			<10	U		<17	U		<17	U		<7.3	U		1.4	J		<73	U		<13	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<24	U		23			<10	U		<17	U		<17	U		<7.3	U		1 6	J		<73	U		<13	U	
		VMP-16-13.5-112910	11/29/2010	<69	U		<34	U		<30	U		<48	U		<47	U		<21	U		<26	U		<210	U		<38	U	
		VMP-16-13.5-021611	2/16/2011	<13	U		<6.6	U		<5.7	U		<9.2	U		<9.1	U		<4	U		<5.1	U		<40	U		<7.3	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<13	U		<6.5	U		<5.6	U		<9.1	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-16-13.5-042211	4/22/2011	<14	U		<7	U		<60	U		<9.7	U		<9.6	U		<4.2	U		<5.4	U		<42	U		<7.7	U	
		VMP-16-13.5-080511	8/5/2011	<1.4	U	UJ	<0 68	U	UJ	<0 59	U	UJ	<0 95	U	UJ	<0 94	U	UJ	<0.41	U	UJ	0.12	J	J	<4.1	U	UJ	<0.75	U	
		VMP-16-13.5-042512	4/25/2012	0 094	J	J	1.1		J	<0 65	U		<1	U		0.14	J	J	<0.45	U		<0 57	U		<4.5	U		<0 83	U	
		VMP-16-13.5-073012	7/30/2012	<45	U		<22	U		<19	U		<31	U		<31	U		<13	U		2 5	J		<140	U		<25	U	
		VMP-16-13.5-102512	10/25/2012	<140	U		<69	U		<60	U		<97	U		<96	U		<42	U		4.1	J		<420	U		<77	U	
	19 ft	VMP-16-19-090210	9/2/2010	<24	U		35			<10	U		<17	U		<17	U		<7.3	U		<9.3	U		<73	U		<13	U	
		VMP-16-19-112910	11/29/2010	<53	U		12	J		<23	U		<37	U		<37	U		<16	U		<20	U		<160	U		<29	U	
		VMP-16-19-021611	2/16/2011	<13	U		<6.3	U		<5.5	U		<8.8	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
		VMP-16-19-042711	4/27/2011	<13	U		<6.5	U		<56	U		<9.1	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-16-19-042711-DUP	4/27/2011	<13	U		<6.3	U		<55	U		<8.8	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
		VMP-16-19-042512	4/25/2012	<35	U		4	J		<15	U		<24	U		<24	U		<10	U		<13	U		<100	U		<19	U	
		VMP-16-19-073012	7/30/2012	<31	U		5 2	J		<13	U		<22	U		<21	U		<9.3	U		1 6	J		<94	U		<17	U	
		VMP-16-19-102512	10/25/2012	<130	U		<65	U		<56	U		<91	U		<90	U		<39	U		5.7	J		<390	U		<72	U	
	31 ft	VMP-16-31-090310	9/3/2010	0 041			0.0047	J		<0 0062	U		<0 0099	U		<0 0098	U		<0 0043	U		0 0016	J		<0.043	U		<0.0079	U	
		VMP-16-31-112910	11/29/2010	<54	U		14	J		<23	U		<37	U		<37	U		<16	U		<20	U		<160	U		<30	U	
		VMP-16-31-042512	4/25/2012	<42	U		6 3	J		<18	U		<29	U		<29	U		<13	U		<16	U		<130	U		<23	U	
		VMP-16-31-073012	7/30/2012	<34	U		<17	U		<15	U		<24	U		<24	U		<10	U		4	J		<100	U		<19	U	
		VMP-16-31-102512	10/25/2012	<160	U		<81	U		<70	U		<110	U		<110	U		<48	U		3 9	J		<490	U		<89	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	2.1	E	J	<0.007	U		<0.006	U		<0 01	U		<0.009	J	U	<0.004	U		0.001	J		<0.043	U		<0 007	U	
		VMP-17-5-DUP	6/21/2010	1 6	E	J	<0.007	U		<0.006	U		<0 01	U		<0 01	J	U	<0.004	U		<0.005	U		<0.044	U		<0 008	U	
		VMP-17-5-090110	9/1/2010	0 027			<0 0066	U		<0 0057	U		<0 0092	U		<0 0091	J	U	0 0034	J		0 0078			<0 04	J	UJ	<0.0073	U	
		VMP-17-5-112210	11/22/2010	0 022			<0 0066	U		0 0027	J		<0 0092	U		<0 0091	J	U	<0.004	U		<0 0051	J	U	<0 04	U		<0.0073	U	
		VMP-17-5-020711	2/7/2011	0 004	J		<0 0062	J	U	<0 0054	U		<0 0086	U		<0 0085	U		<0 0037	U		0 0021	J		<0 037	J	U	<0.0069	U	
		VMP-17-5-040611	4/6/2011	<0 05	U		<0.025	U		<0.022	U		<0.035	U		<0.034	U		<0.015	U		<0.019	U		<0.15	U		<0 028	U	
		VMP-17-5-080111	8/1/2011	<0.19	U		<0.095	U		<0.082	U		<0.13	U		<0.13	U		<0.057	U		0.052	J		<0 57	U		<0.1	U	
		VMP-17-5-110711	11/7/2011	0 011			<0 0042	U		<0 0036	U		<0 0059	U		<0 0058	U		<0 0025	U		0.015			<0 025	U		<0.0047	U	
		VMP-17-5-012612	1/26/2012	0 039			<0 0044	U		<0 0038	U		<0 0061	U		<0 0061	U		<0 0026	U		0 0081			<0 026	U		<0.0049	U	
		VMP-17-5-041112	4/11/2012	0 045			<0 0045	J	U	<0 0039	J	U	<0 0063	U		<0 0062	J	U	0 0047			0.018			<0 027	U		<0 005	U	
		VMP-17-5-071112	7/11/2012	0.11			<0 0048	J	U	<0 0042	J	U	<0 0067	U		<0 0066	U		0.002	J		0.063			<0 029	U		<0.0053	U	
		VMP-17-5-100912	10/9/2012	0.0049	J		<0 0074	U		<0 0064	U		<0 01	U		<0 01	U		<0 0045	U		0 0011	J		<0 045	U		<0.0083	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.12	U		0.46			<0.052	U		<0.083	U		<0.082	U		<0.036	U		0.042	J		<0 36	U	UJ	<0 066	U	
		VMP-25-5-040811	4/8/2011	<0.054	U		<0.027	U		<0.023	U		<0.038	U		<0.037	U		<0.016	U		0 0071	J		<0.16	U		<0 03	U	
		VMP-25-5-080911	8/9/2011	0.12			<0 0057	J	U	0 0052			<0.008	U		0 0057	J		<0 0034	U		1			<0.034	J	U	<0.0064	U	
		VMP-25-5-111711	11/17/2011	0.0024	J		<0 0041	U		<0 0036	U		<0 0058	U		<0 0057	U		<0 0025	U		0 0026	J		<0 025	U		<0.0046	U	
		VMP-25-5-013112	1/31/2012	0 026	J		<0 03	U		<0.026	U		<0.042	U		0 0068	J		<0.018	U		0.012	J		<0.18	U		<0 033	U	
		VMP-25-5-042512	4/25/2012	0 037			<0 0047	U		0 001	J		<0 0066	U		<0 0065	J	U	0 0058			0.019			<0.028	U		<0.0052	U	
		VMP-25-5-072612	7/26/2012	0 039			0 013	J		0 0037	J		<0.022	U		0 0084	J		<0 0097	U		0.042			<0.098	U		<0 018	U	
		VMP-25-5-102612	10/26/2012	0.0096	J	J	<0 0066	U		<0 0057	U		<0 0092	U		<0 0091	U		<0.004	U		0 0036	J		<0.1	U	UJ	<0.0073	U	
	21 ft	VMP-25-21-031511	3/15/2011	15	J		6.7	J		1.4	J		<16	U		<16	U		<7	U		27			<70	U		<13	U	
		VMP-25-21-031511-DUP	3/15/2011	27	J		9 3	J		<13	U		<21	U		<20	U		<8.9	U		16			<90	U		<16	U	
		VMP-25-21-040811	4/8/2011	38	J		17	J		<110	U		<170	U		<170	U		<74	U		12	J		<750	U		<140	U	
		VMP-25-21-040811-DUP	4/8/2011	<250	U		<120	U		<110	U		<180	U		<170	U		<75	U		<96	U		<760	U		<140	U	
		VMP-25-21-080911	8/9/2011	<81	U		36	J		<35	U		<57	U		270			<24	U		1200			<240	U		80		
		VMP-25-21-111711	11/17/2011	<110	U		<55	U		<48	U		<77	U		<76	U		<33	U		<42	U		<330	U		<61	U	
		VMP-25-21-111711-DUP	11/17/2011	<160	U		<82	U		<71	U		<110	U		<110	U		<49	U		<62	U		<490	U		<90	U	
		VMP-25-21-013112	1/31/2012	<58	U		<29	U		<25	U		<40	U		<40	U		<17	U		<22	U		<170	U		<32	U	
		VMP-25-21-013112-DUP	2/1/2012	<54	U		<27	U		<23	U		<37	U		<37	U		<16	U		<20	U		<160	U		<30	U	
		VMP-25-21-042512	4/25/2012	<37	U		<18	U		<16	U		<26	U		<25	U		<11	U		<14	U		<110	U		<20	U	
		VMP-25-21-072612	7/26/2012	<62	U		<31	U		<27	U		<43	U		<43	U		<18	U		2.4	J		<190	U		<34	U	
		VMP-25-21-102612	10/26/2012	<370	U		<180	U		<160	U		<260	U		<260	U		<110	U		<140	U		<1100	U	UJ	<210	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	0 065	J		<0.052	U		<0.045	U		<0.073	U		<0.072	U		8 6			0.055			<0 31	U		<0.058	U	
		VMP-29-10-100812	10/8/2012	0 047	J		<0.092	U		<0 08	U		<0.13	U		<0.13	U		14			0.016	J		<0 56	U		<0.1	U	
	20 ft	VMP-29-20-073012	7/30/2012	0.95	J		<0 62	U		<0 53	U		<0 86	U		<0 85	U		190			0.045	J		<3.7	U		<0 68	U	
		VMP-29-20-073012-Dup	7/30/2012	0.86	J		<0 58	U		<0.5	U		<0.8	U		<0.79	U		170			0.041	J		<3.5	U		<0 64	U	
		VMP-29-20-100812	10/8/2012	0 097	J		<0.092	U		<0 08	U		<0.13	U		<0.13	U		20			0.023	J		<0 56	U		<0.1	U	
	30 ft	VMP-29-30-073012	7/30/2012	0.78			<0.1	U		<0.088	U		<0.14	U		<0.14	U		48			0 06	J		<0 61	U		<0.11	U	
		VMP-29-30-100812	10/8/2012	0.55	J		<0.45	U		0.12	J		<0 64	U		<0 63	U		47			0 55			<2.7	U		<0.5	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
										8500						4						40000			50			41000		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	0 3	J		<0.18	U		<0.16	U		<0 26	U		<0 25	U		69			0.027	J		<1.1	U		<0.2	U	
		VMP-30-10-100812	10/8/2012	0 019			<0 0069	U		<0.006	U		<0 0097	U		0 0041	J		1 6			0 0096			<0.042	U		<0.0077	U	
	20 ft	VMP-30-20-073012	7/30/2012	1 3	J		<0.78	U		<0 68	U		<1.1	U		<1.1	U		300			0.033	J		<4.7	U		<0 87	U	
		VMP-30-20-100812	10/8/2012	0.26	J		<0 28	U		0.12	J		<0.4	U		<0 39	U		29			0 39			<1.7	U		<0 32	U	
	30 ft	VMP-30-30-073012	7/30/2012	1 2	J		<0.8	U		<0.7	U		<1.1	U		<1.1	U		330			0.035	J		<4.8	U		<0 89	U	
		VMP-30-30-100812	10/8/2012	0.46	J		<0 59	U		0 093	J		<0 83	U		<0 82	U		67			0.49			<3.6	U		<0 66	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	0 055			0 00096	J		0.0024	J		<0 0083	U		<0 0082	U		0 0016	J		0.071			<0.036	U		<0.0066	U	
		VMP-41-10-100912	10/9/2012	0 035			<0 0073	U		<0 0063	U		<0 01	U		0.012			<0 0044	U		0.022			<0.044	U		<0 0081	U	
	20 ft	VMP-41-20-072712	7/27/2012	0.03			0 00039	J		0.0014	J		<0 0064	U		<0 0063	U		<0 0028	U		0.038			<0.028	U		<0.0051	U	
		VMP-41-20-072712-Dup	7/27/2012	0 029			0 00044	J		0.0018	J		<0 0066	U		<0 0065	U		<0 0028	U		0.039			<0.028	U		<0.0052	U	
		VMP-41-20-100912	10/9/2012	0.02			<0 0071	U		0.00092	J		<0 0099	U		0 0091	J		<0 0043	U		0.015			<0.043	U		<0 0079	U	
		VMP-41-20-100912-Dup	10/9/2012	0 019			<0 0073	J	U	0.0013	J		<0 01	U		0 0073	J		<0 0044	U		0.016			<0.044	U		<0 0081	U	
	30 ft	VMP-41-30-072712	7/27/2012	0 036			0 00072	J		0.0021	J		<0 0066	U		<0 0065	U		0.00073	J		0 03			<0.028	U		<0.0052	U	
		VMP-41-30-100912	10/9/2012	0.0093	J		<0 0076	U		<0 0066	U		<0.011	U		0 0046	J		<0 0046	U		0 0098			<0.046	U		<0 0085	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			12			5600												4.8			820			790		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	<0 0072	U		<0 0071	U		0 001	J		0 007			0 0023	J		0 093			<0 0034	U		0 014			0 0065		
		VMP-10-5-111810	11/17/2010	<0 0066	U		<0 0065	J	U	0 00082	J		<0 0059	U		<0 0059	U		0 025			<0 0031	U		<0 0052	J	U	<0 0052	U	
		VMP-10-5-021011	2/10/2011	<0 0065	U		<0 0064	U		<0 0067	U		0 0013	J		<0 0058	U		0 2			<0 003	U		0 0046	J		0 0011	J	
		VMP-10-5-040511	4/5/2011	<0 006	U		<0 0059	J	U	0 00085	J		0 0054			<0 0054	J	U	0 011			<0 0028	U		0 0058			<0 0048	J	U
		VMP-10-5-07/2911	7/29/2011	<0 0073	U		<0 0072	U		<0 0075	U		<0 0066	J	U	<0 0066	U		0 003	J		<0 0034	U		0 0033	J		0 00096	J	
		VMP-10-5-110411	11/4/2011	<0 0038	U		<0 0037	U		0 00084	J	J	<0 0034	J	U	<0 0034	J	U	<0 0032	U		<0 0018	U		0 0027	J		0 00085	J	
		VMP-10-5-012512	1/26/2012	<0 0048	U		0 0012	J		<0 0049	U		<0 0043	U		<0 0043	U		0 0031	J		<0 0022	U		0 00089	J		<0 0038	U	
		VMP-10-5-041212	4/12/2012	<0 0051	U		<0 005	U		0 0013	J		<0 0046	U		<0 0046	U		0 034			<0 0024	U		<0 0041	J	U	<0 0041	U	
		VMP-10-5-071312	7/13/2012	<0 0053	U		<0 0052	U		0 0013	J		<0 0047	J	U	<0 0047	U		<0 0045	J	U	<0 0025	U		<0 0042	J	U	<0 0042	U	
		VMP-10-5-101612	10/16/2012	<0 0083	U		<0 0081	U		<0 0085	U		<0 0074	U		<0 0074	U		0 038			<0 0039	U		<0 0066	U		<0 0066	U	
	10 ft	VMP-10-10-090710	9/7/2010	<0 0072	U		<0 0071	U		0 00097	J		<0 0065	U		<0 0065	U		0 048			<0 0034	U		0 0011	J		<0 0057	U	
		VMP-10-10-111810	11/17/2010	<0.007	U		<0 0069	J	U	0 00098	J		<0 0063	U		<0 0063	U		0 026			<0 0033	U		<0.0056	J	U	<0.0056	U	
		VMP-10-10-021111	2/11/2011	<0 0055	U		0 002	J		0 00063	J		<0.005	J	U	<0.005	U		0 018			<0 0026	U		0 0034	J		0 0011	J	
		VMP-10-10-040611	4/6/2011	<0 0072	U		<0 0071	J	U	0 0012	J		<0 0065	J	U	<0 0065	U		0 0088			<0 0034	U		<0.0057	J	U	<0.0057	U	
		VMP-10-10-072911	7/29/2011	<0 0075	U		<0 0074	U		<0 0078	U		0 0047	J		<0 0068	J	U	0 0094			<0 0035	U		0 0072			0 0018	J	
		VMP-10-10-110411	11/4/2011	<0 0049	U		<0 0048	J	U	0 00083	J		0 0019	J		0 00059	J		0 001	J		<0 0023	U		0 0029	J		0 00099	J	
		VMP-10-10-110411-DUP	11/4/2011	<0 0049	U		<0 0048	J	U	0 00093	J		0 0015	J		0 00047	J		0 00076	J		<0 0023	U		0 0025	J		0 0011	J	
		VMP-10-10-012512	1/26/2012	<0 0048	U		0 0014	J		<0 0049	U		<0 0043	U		<0 0043	U		<0 0041	U		<0 0022	U		0 0015	J		0 00071	J	
		VMP-10-10-012512-DUP	1/26/2012	<0.005	U		0 0014	J		<0 0051	U		0 0012	J		<0 0045	U		0 008			<0 0023	U		0 0016	J		0 00087	J	
		VMP-10-10-041112	4/11/2012	<0 0052	U		<0 0051	U		<0 0054	U		<0 0047	J	U	<0 0047	U		0 057			<0 0024	U		0 0048			0 0022	J	
		VMP-10-10-071312	7/13/2012	<0 0051	U		<0.005	U		<0 0053	U		<0 0046	J	U	<0 0046	U		<0 0044	J	U	<0 0024	U		<0.0041	J	U	<0.0041	J	U
		VMP-10-10-101612	10/16/2012	<0 0086	U		<0 0085	U		<0 0089	U		<0 0078	U		<0 0078	U		0 021			<0.004	U		0 0068			<0.0069	U	
	20 ft	VMP-10-20-090710	9/7/2010	<0 0075	U		<0 0074	U		0 0013	J		0 0016	J		<0 0068	U		0 027		J	<0 0035	U		0 0043	J		0 0015	J	
		VMP-10-20-090710-DUP	9/7/2010	<0.007	U		<0 0069	U		0 0018	J		0 0013	J		<0 0063	U		0 011		J	<0 0033	U		0 0037	J		0 0013	J	
		VMP-10-20-111810	11/17/2010	<0.013	U		0 0042	J		<0.014	U		<0.012	U		<0.012	U		0 01	J	J	<0 0062	U		<0.011	U		<0.011	U	
		VMP-10-20-111810-Dup	11/17/2010	<0 0067	U		0 002	J		0 00085	J		<0 0061	U		<0 0061	U		0 03		J	<0 0032	U		<0.0054	J	U	<0.0054	U	
		VMP-10-20-021111	2/11/2011	<0 0066	U		0 0033	J		<0 0068	U		<0.006	U		<0.006	U		0 014			<0 0031	U		0 00059	J		<0.0053	U	
		VMP-10-20-040611	4/6/2011	<0.008	U		<0 0079	J	U	0 0014	J		<0 0072	J	U	<0 0072	U		0 031			<0 0038	U		<0.0068		U	0 0016	J	
		VMP-10-20-072911	7/29/2011	<0 0074	U		<0 0073	U		<0 0077	U		0 005	J		<0 0067	J	U	0 0054	J		<0 0035	U		0 0053	J		0 0018	J	
		VMP-10-20-110411	11/4/2011	<0 0049	U		<0 0048	U		0 001	J		<0 0044	U		0 00043	J		0 0012	J		<0 0023	U		0 0034	J		0 0011	J	
		VMP-10-20-012612	1/26/2012	<0 0046	U		0 001	J		<0 0047	U		<0 0041	U		<0 0041	U		0 015			<0 0021	U		0 0014	J		0 00042	J	
		VMP-10-20-041212	4/12/2012	<0 0051	U		<0.005	U		0 0009	J		<0 0046	U		<0 0046	U		0 064			<0 0024	U		<0.0041	J	U	<0.0041	U	
		VMP-10-20-071612	7/16/2012	<0 0049	U		<0 0048	U		0 0012	J		<0 0044	J	U	<0 0044	U		<0 0042	J	U	<0 0023	U		<0.0039	J	U	<0.0039	U	
		VMP-10-20-101612	10/16/2012	<0 0087	U		<0 0086	U		<0.009	U		<0 0078	J	U	0 0026	J		0 0059	J		<0 0041	U		<0.0069	U		<0.0069	U	
	30 ft	VMP-10-30-041212	4/12/2012	<0 0053	U		<0 0053	U		0 0018	J		<0 0048	U		<0 0048	U		0 12			<0 0025	U		0 0038	J		0 0013	J	
		VMP-10-30-071612	7/16/2012	<0 0047	U		<0 0046	U		0 0013	J		<0 0042	J	U	<0 0042	U		<0.004	J	U	<0 0022	U		<0.0038	J	U	<0.0038	U	
		VMP-10-30-101612	10/16/2012	<0 0082	U		<0 0081	U		<0 0084	U		<0 0074	U		<0 0074	U		0 028			<0 0038	U		<0.0065	U		<0.0065	U	
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	<0 0067	U		<0 0066	U		0 0012	J		<0 0061	U		<0 0061	U		0 041			<0 0032	U		0 0015	J		<0.0054	U	
		VMP-11-5-112210	11/22/2010	<0.007	U		<0 0069	U		<0 0072	U		<0 0063	U		<0 0063	U		0 0019	J		<0 0033	U		<0.0056	J	U	<0.0056	U	
		VMP-11-5-021511	2/15/2011	<0 0062	U		0 0024	J		0 001	J		<0 0056	J	U	<0 0056	U		0 065			<0 0029	U		0 0089			0 0029	J	
		VMP-11-5-040611	4/6/2011	<0.059	U		<0.058	U		<0.061	U		<0.053	U		<0.053	U		0 11			<0.028	U		<0.047	U		<0.047	U	
		VMP-11-5-080711	8/7/2011	<0.081	U		<0 08	U		<0.083	U		<0.073	U		<0.073	U		<0.069	U		<0.038	U		0.012	J		<0.064	U	
		VMP-11-5-111111	11/11/2011	<0.016	U		<0.016	U		<0.016	U		<0.014	U		<0.014	U		0.94			<0 0075	U		0 0036	J		<0.013	U	
		VMP-11-5-012612	1/26/2012	<0 0048	U		0 001	J		<0 0049	U		<0 0043	U		<0 0043	U		<0 0041	U		<0 0022	U		0 0031	J		0 0007	J	
		VMP-11-5-041912	4/19/2012	<0 0053	U		<0 0053	U		0 0017	J		0 0023	J		0 0012	J		0 21			<0 0025	U		0 012			0 0033	J	
		VMP-11-5-071912	7/16/2012	<0 0069	U		<0 0068	J	U	0 0015	J		<0 0062	U		<0 0062	U		0 0061			<0 0032	U		<0.0055	J	U	<0.0055	U	
		VMP-11-5-101612	10/16/2012	<0 0077	U		<0 0076	U		<0.008	U		<0.007	U		<0.007	U		0.018			<0 0036	U		<0.0061	U		<0.0061	U	
	8 ft	VMP-11-8-090810	9/8/2010	<0.007	U		<0 0069	U		0 002	J		<0 0063	U		<0 0063	U		0.01			<0 0033	U		<0.0056	J	U	<0.0056	U	
		VMP-11-8-112210	11/22/2010	<0.007	U		<0 0069	U		<0 0072	U		<0 0063	U		<0 0063	U		0 0024	J		<0 0033	U		<0.0056	J	U	<0.0056	U	
		VMP-11-8-021111	2/11/2011	<0 0068	U		0 0034	J		<0.007	U		<0 0061	U		<0 0061	U		0 012			<0 0032	U		<0.0054	U		<0.0054	U	
		VMP-11-8-021111-DUP	2/11/2011	<0 0064	U		0 0031	J		0 001	J		<0 0058	U		<0 0058	U		0 0085			<0.003	U		<0.0051	U		<0.0051	U	
		VMP-11-8-040611	4/6/2011	<0 03	U		<0 03	U		<0.031	U		<0.027	U		<0.027	U		0.062			<0.014	U		<0.024	U		<0.024	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.026	U		0 0028	J		<0.027	U		<0.024	U		<0.024	U		0.048			<0.012	U		<0.021	U		<0.021	U	
		VMP-11-8-080711	8/7/2011	<0.081	U		<0 08	U		<0.083	U		<0.073	U		<0.073	U		<0.069	U		<0.038	U		0 01	J		<0.064	U	
		VMP-11-8-111411	11/14/2011	<0 0048	U		0 0015	J		<0 0049	U		0 0012	J		<0 0043	U		0 031			<0 0022	U		0 003	J		0 0007	J	
		VMP-11-8-012612	1/26/2012	<0 0047	U		0 00099	J		<0 0048	U		<0 0042	U		<0 0042	U		<0.004	U		<0 0022	U		0 001	J		<0.0037	U	
		VMP-11-8-041912	4/19/2012	<0 0053	U		<0 0053	U		0 0016	J		<0 0048	U		<0 0048	U		0 01			<0 0025	U		0 0075			0 0019	J	
		VMP-11-8-072012	7/20/2012	<0 0053	U		<0 0053	U		0 0013	J		<0 0048	U		<0 0048	U		<0 0046	U		<0 0025	U		<0.0042	U		<0.0042	U	
		VMP-11-8-101612	10/16/2012	<0 0078	U		<0 0077	U		<0.008	U		<0.007	U		<0.007	U		0 0019	J		<0 0036	U		<0.0062	J	U	<0.0062	U	
		VMP-11-8-101612-Dup	10/16/2012	<0 0079	U		<0 0078	U		<0 0081	U		<0 0071	U		<0 0071	U		0 0019	J		<0 0037	U		<0.0063	J	U	<0.0063	U	
	29 ft	VMP-11-29-090810	9/8/2010	<0.18	U		<0.17	U		<0.18	U		0.17			0 088	J		1.1			<0.082	U		0.1	J		0.072	J	
		VMP-11-29-112210	11/22/2010	<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		1 8	J		<1.2	U		<2	U		<2	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.7	U		<1.7	U		<1.8	U		<1.6	U		<1.6	U		1 8			<0 82	U		<1.4	U		<1.4	U	
		VMP-11-29-021411	2/14/2011	<0 0068	U		0 0028	J		<0.007	U		<0 0061	J	U	<0 0061	U		0.19			<0 0032	U		0 0043	J		0 0016	J	
		VMP-11-29-040611	4/6/2011	<0.052	U		<0.051	U		<0.053	U		<0.046	U		<0.046	U		0.096			<0.024	U		<0.041	U		<0.041	U	
		VMP-11-29-082511	8/25/2011	<0 0075	U		<0 0074	U		<0 0078	U		0 0023	J		<0 0068	U		0.002	J		<0 0035	U		0 0037	J		0 0011	J	
		VMP-11-29-082511-Dup	8/25/2011	<0 0075	U		<0 0074	U		<0 0078	U		0 0023	J		<0 0068	U		0.004	J		<0 0035	U		0 0033	J		0 0011	J	
		VMP-11-29-111411	11/14/2011	<0 0048	U		0 0014	J		<0 0049	U		0 00088	J		<0 0043	U		0.005			<0 0022	U		0 0018	J		0 00048	J	
		VMP-11-29-012612	1/26/2012	<0 0046	U		0 001	J		<0 0047	U		<0 0041	U		<0 0041	U		<0 0039	U		<0 0021	U		<0.0036	U		<0.0036	U	
		VMP-11-29-042712	4/27/2012	<0 0048	U		<0 0047	U		0 00099	J		0 0011	J		<0 0043	U		0.013			<0 0022	U		0 0046			0 0014	J	
		VMP-11-29-072012	7/23/2012	<0 0048	U		<0 0047	U		0 0013	J		0 0056			0 0015	J		0 028			<0 0022	U		0 023			0 0062		
		VMP-11-29-101612	10/16/2012	<0 0081	U		<0.008	U		0 0015	J		<0 0073	U	UJ	<0 0073	U		0 0071			<0 0038	U		0 0012	J		<0.0064	U	
	38 ft	VMP-11-38-042312	4/23/2012	<0 36	U		<0 35	U		<0 37	U		<0 32	U		<0 32	U		<0.3	U		<0.17	U		<0 28	U		<0 28	U	
		VMP-11-38-042312-Dup	4/23/2012	<1.2	U		<1.2	U		<1.3	U		<1.1	U		<1.1	U		<1.1	U		<0 58	U		<0 99	U		<0 99	U	
		VMP-11-38-072312	7/23/2012	<0 59	U		<0 58	U		<0 61	U		<0 53	U		<0 53	U		<0 51	U		<0 28	U		<0.47	U		<0.47	U	
		VMP-11-38-101612	10/16/2012	<0 0082	U		<0 0081	U		<0 0084	U		<0 0074	U		<0 0074	U		0.023			<0 0038	U		<0.0065	U		<0.0065	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			12			5600												4.8			820			790		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	<7.3	U		<7.2	U		<7.6	U		<6.6	U		<6.6	U		1700			<3.4	U		<5.8	U		<5.8	U	
		VMP-12-5-120310	12/3/2010	<72	U		<71	U		<75	U		<65	U		<65	U		1700			<34	U		<58	U		<58	U	
		VMP-12-5-021511	2/15/2011	<3.3	U		<3.3	U		<3.4	U		<3	U		<3	U		610			<1.6	U		<2.6	U		<2.6	U	
		VMP-12-5-041911	4/19/2011	<24	U		<24	U		<25	U		<22	U		<22	U		1100			<11	U		7.9	J		<19	U	
		VMP-12-5-080411	8/4/2011	<6.3	U		<6.2	U		<6.5	U		<5.7	U		<5.7	U		700			<3	U		<5	U		<5	U	
		VMP-12-5-111611	11/16/2011	<0 0044	U		<0 0044	U		<0 0046	U		0.0009	J		<0.004	U		0.95			<0 0021	U		0 0018	J		0.00046	J	
		VMP-12-5-012412	1/24/2012	<0 05	U		<0.049	U		<0.051	U		0 011	J		<0.045	U		2 9			<0.023	U		0.013	J		<0 04	U	
		VMP-12-5-041912	4/19/2012	<0.005	U		<0 0049	U		0.0016	J		0.0014	J		<0 0045	U		0.4			<0 0023	U		0 0042			<0.004	U	
		VMP-12-5-072612	7/26/2012	<0 0053	U		<0 0052	U		0.0012	J		0.0017	J		0.00084	J		0 0065			<0 0025	U		0 0052			0 0018	J	
		VMP-12-5-072612-Dup	7/26/2012	<0 0048	U		<0 0048	U		0.0018	J		<0 0044	U		<0 0044	U		0.00079	J		<0 0023	U		0.001	J		0.00082	J	
		VMP-12-5-102412	10/24/2012	<0 0082	U		<0 0081	U		0.0015	J		0 003	J		0 0014	J		0 0058	J		<0 0038	U		0.012			0 0054	J	
	11 5 ft	VMP-12-11.5-090310	9/3/2010	<9.4	U		<9.3	U		<9.7	U		<8.5	U		<8.5	U		1700			<4.4	U		<7.5	U		<7.5	U	
		VMP-12-11.5-120310	12/3/2010	<8.2	U		<8	U		<8.4	U		<7.3	U		<7.3	U		910			<3.8	U		<6.5	U		<6.5	U	
		VMP-12-11.5-021511	2/15/2011	<7.3	U		<7.2	U		<7.5	U		<6.6	U		<6.6	U		1300			<3.4	U		<5.8	U		<5.8	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<6.3	U		<6.2	U		<6.5	U		<5.7	U		<5.7	U		1100			<3	U		<5	U		<5	U	
		VMP-12-11.5-041911	4/19/2011	<22	U		<22	U		<23	U		<20	U		<20	U		1200			<10	U		<18	U		<18	U	
		VMP-12-11.5-080411	8/4/2011	<7.7	U		<7.6	U		<7.9	U		<6.9	U		<6.9	U		420			<3.6	U		<6.1	U		<6.1	U	
		VMP-12-11.5-111611	11/16/2011	<0.061	U		<0 06	U		<0.063	U		<0.055	U		<0.055	U		4.7			<0.029	U		<0.049	U		<0.049	U	
		VMP-12-11.5-012412	1/24/2012	<0 57	U		<0 56	U		<0 59	U		<2.1	U		<0 52	U		64			<0 27	U		0.13	J		<0.46	U	
		VMP-12-11.5-041912	4/19/2012	<0.052	U		<0.051	U		<0.054	U		<0.047	U		<0.047	U		15			<0.024	U		<0.041	U		<0.041	U	
		VMP-12-11.5-082012	8/20/2012	<0 0083	U		<0 0081	U		0.0022	J	J	0.0056	J		0 0028	J		0.012			<0 0039	U		0 0038	J		0 0022	J	
		VMP-12-11.5-102612	10/26/2012	<0 0079	U		<0 0078	U		<0 0081	U		0.0017	J		<0 0071	U		0.02			<0 0037	U		0 0022	J		<0.0063	U	
	25 ft	VMP-12-25-090310	9/3/2010	<12	U		<12	U		<12	U		<11	U		<11	U		1300			<5.6	U		<9.6	U		<9.6	U	
		VMP-12-25-120310	12/3/2010	<0 59	U		<0 58	U		<0 61	U		<0 54	U		<0 54	U		120			<0 28	U		<0.47	U		<0.47	U	
		VMP-12-25-021511	2/15/2011	<14	U		<14	U		<15	U		<13	U		<13	U		990			<6.8	U		5 8	J		<12	U	
		VMP-12-25-041911	4/19/2011	<24	U		<23	U		<24	U		<21	U		<21	U		980			<11	U		<19	U		<19	U	
		VMP-12-25-080411	8/4/2011	<15	U		<15	U		<15	U		<14	U		<14	U		720			<7	U		<12	U		<12	U	
		VMP-12-25-111611	11/16/2011	<17	U		<17	U		<18	U		<15	U		<15	U		940			<8	U		<14	U		<14	U	
		VMP-12-25-012412	1/24/2012	<6 5	U		<6.4	U		<6.7	U		<24	U		<5.9	U		1200		J	<3.1	U		<5.2	U		<5.2	U	
		VMP-12-25-012412-DUP	1/24/2012	<48	U		<47	U		<49	U		<170	U		<43	U		1200			<22	U		<38	U		<38	U	
		VMP-12-25-041912	4/19/2012	<5	U		<4.9	U		<5.1	U		<4.5	U		<4.5	U		520			<2.3	U		<4	U		<4	U	
		VMP-12-25-072712	7/27/2012	<5.5	U		<5.4	U		<5.6	U		<4.9	U		<4.9	U		450			<2.6	U		<4.4	U		<4.4	U	
		VMP-12-25-072712-Dup	7/27/2012	<5.5	U		<5.4	U		<5.6	U		<4.9	U		<4.9	U		540			<2.6	U		<4.4	U		<4.4	U	
		VMP-12-25-102512	10/25/2012	<2.4	U		<2.3	U		<2.4	U		<2.1	U		<2.1	U		140			<1.1	U		<1.9	U		<1.9	U	
	39 ft	VMP-12-39-041911	4/19/2011	<23	U		<23	U		<24	U		<21	U		<21	U		1100			<11	U		<18	U		<18	U	
		VMP-12-39-012412	1/24/2012	<48	U		<47	U		<49	U		<170	U		<43	U		1200			<22	U		<38	U		<38	U	
		VMP-12-39-041912	4/19/2012	<24	U		<24	U		<24	U		<22	U		<22	U		680			<11	U		4	J		<19	U	
		VMP-12-39-072612	7/26/2012	<11	U		<11	U		<11	U		<9.9	U		<9.9	U		1000			<5.1	U		<8.7	U		<8.7	U	
		VMP-12-39-102412	10/24/2012	<29	U		<28	U		<30	U		<26	U		<26	U		770			<14	U		10	J		2.1	J	
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	<0.048	U		<0.047	U		<0.049	U		<0.043	U		<0.043	U		0 073			<0.022	U		0 0064	J		<0.038	U	
		VMP-13-5-120110	12/1/2010	<0 0064	U		<0 0063	J	U	0.0015	J		0 037			0 0091			0.13			<0.003	U		0.11			0.037		
		VMP-13-5-021811	2/18/2011	<0 0075	U		<0 0074	U		<0 0078	U		<0 0068	U		<0 0068	U		0 0028	J		<0 0035	U		<0.006	U		<0.006	U	
		VMP-13-5-040511	4/5/2011	<0.015	U		0 006	J		<0.016	U		<0.014	U		<0.014	U		0 012	J		<0.007	U		<0.012	U		<0.012	U	
		VMP-13-5-080911	8/9/2011	<0.016	U		<0.016	U		<0.017	U		0.0049	J		0 0018	J		2 9		J	<0 0076	U		0 0073	J		0 0018	J	
		VMP-13-5-080911-DUP	8/9/2011	<0.014	U		<0.014	U		<0.015	U		0.0028	J		<0.013	U		1 8		J	<0 0067	U		0.005	J		0 0016	J	
		VMP-13-5-111411	11/14/2011	<0.005	U		0 00096	J		<0 0052	U		0.00072	J		<0 0045	U		0 0044			<0 0024	U		0 0019	J		0.00065	J	
		VMP-13-5-012712	1/27/2012	<0.042	U		<0.042	U		<0.044	U		<0.15	U		<0.038	U		0.19		J	<0 02	U		<0.034	U		<0.034	U	
		VMP-13-5-042012	4/20/2012	<0 0049	U		<0 0048	U		0.0015	J		<0 0044	U		<0 0044	U		0 0015	J		<0 0023	U		0 0037	J		<0.0039	U	
		VMP-13-5-071912	7/19/2012	<0 0051	U		<0.005	U		0.0026	J	J	0.0071			0 002	J		0 0041	J		<0 0024	U		0.009			0 0046		
		VMP-13-5-071912-Dup	7/19/2012	<0 0051	U		<0.005	U		0.0024	J	J	0.0083			0 0022	J		0 004	J		<0 0024	U		0 0098			0 0047		
		VMP-13-5-100912	10/9/2012	<0 0079	U		<0 0078	U		0.0015	J		<0 0071	U		<0 0071	U		0 043			<0 0037	U		<0 0063	U		<0.0063	U	
	10 5 ft	VMP 13-10 5-091310	9/13/2010	<0.018	U		<0.018	U		<0.018	U		<0.016	U		<0.016	U		0.38			<0 0083	U		<0.014	U		<0.014	U	
		VMP 13-10 5-091310-Dup	9/13/2010	<0.017	U		<0.017	U		<0.018	U		<0.016	U		<0.016	U		0.4			<0 0081	U		0 0025	J		<0.014	U	
		VMP-13-10.5-120110	12/1/2010	<0 0071	U		<0.007	J	U	0.0015	J		<0 0064	U		<0 0064	U		0 081			<0 0033	U		<0 0056	J	U	<0 0056	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0 0074	U		<0 0072	J	U	0.0013	J		<0 0066	U		<0 0066	U		0 097			<0 0034	U		<0 0059	J	U	<0 0059	U	
		VMP-13-10.5-021811	2/18/2011	<2 9	U		<2 9	U		<3	U		<2.6	U		<2.6	U		17			<1.4	U		<2.3	U		<2.3	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<2 8	U		<2 8	U		<2.9	U		<2.5	U		<2.5	U		18			<1.3	U		<2.2	U		<2.2	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0 0075	U		<0 0074	J	U	0 00087	J		<0 0068	U		<0 0068	U		0 0012	J		<0 0035	U		0.00081	J		<0.006	U	
		VMP-13-10.5-080911	8/9/2011	<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		34			<0.077	U		<0.13	U		<0.13	U	
		VMP-13-10.5-111411	11/14/2011	<0 0048	U		0.0012	J		<0 0049	U		0.0014	J		<0 0043	U		0 0017	J		<0 0022	U		0 0023	J		0.00073	J	
		VMP-13-10.5-012712	1/26/2012	<0.013	U		<0.013	U		<0.014	U		<0.012	U		<0.012	U		0 052			<0 0062	U		<0.011	U		<0.011	U	
		VMP-13-10.5-012712-DUP	1/26/2012	<0.019	U		<0.019	U		<0 02	U		<0.017	U		<0.017	U		0.08			<0 0089	U		<0.015	U		<0.015	U	
		VMP-13-10.5-042012	4/20/2012	<0 0048	U		<0 0047	U		0.0016	J		<0 0043	U		<0 0043	U		0 0014	J		<0 0022	U		0 0035	J		<0 0038	U	
		VMP-13-10.5-071912	7/19/2012	<0 0051	U		<0.005	U		0.0025	J	J	0.0018	J		<0 0046	J	U	0.01			<0 0024	U		0 0047			0 0019	J	
		VMP-13-10.5-100912	10/9/2012	<0 0067	U		<0 0066	U		0.0016	J		<0 0061	J	U	<0 0061	U		0 0022	J		<0 0032	U		0 0084			0 0039	J	
		VMP-13-10.5-100912-Dup	10/9/2012	<0 0081	U		<0.008	U		0.0014	J		<0 0073	U		<0 0073	U		0 0012	J		<0 0038	U		<0 0064	U		<0 0064	U	
	21 5 ft	VMP 13-21 5-091310	9/13/2010	<13	U		<13	U		<14	U		<12	U		<12	U		43			<6.2	U		<10	U		<10	U	
		VMP-13-21.5-120110	12/1/2010	<26	U		<25	U		<26	U		<23	U		<23	U		57			<12	U		<20	U		<20	U	
		VMP-13-21.5-021811	2/18/2011	<3 8	U		<3 8	U		<3.9	U		<3.4	U		<3.4	U		15			<1.8	U		<3	U		<3	U	
		VMP-13-21.5-040511	4/5/2011	<5 5	U		<5.4	U		<5.7	U		<5	U		<5	U		16			<2.6	U		<4.4	U		<4.4	U	
		VMP-13-21.5-080911	8/9/2011	<0 69	U		<0 68	U		<0.71	U		<0 62	U		<0 62	U		55			<0 32	U		0.18	J		<0 55	U	
		VMP-13-21.5-111411	11/14/2011	<3.1	U		<3.1	U		<3.2	U		<2.8	U		<2.8	U		33			<1.5	U		<2.5	U		<2.5	U	
		VMP-13-21.5-111411-DUP	11/14/2011	<3.1	U		<3.1	U		<3.2	U		<2.8	U		<2.8	U		31			<1.5	U		<2.5	U		<2.5	U	
		VMP-13-21.5-012712	1/27/2012	<0.73	U		<0.72	U		<0.75	U		<2.6	U		<0 66	U		29		J	<0 34	U		<0 58	U		<0 58	U	
		VMP-13-21.5-042012	4/20/2012	<0.081	U		<0 08	U		<0.084	U		0 015	J		<0.073	U		6 9			<0.038	U		0.024	J		<0.065	U	
		VMP-13-21.5-071912	7/19/2012	<0 0051	U		<0.005	U		<0 0052	U		0.0014	J		<0 0046	J	U	1.4			<0 0024	U		0 0054			0 0022	J	
		VMP-13-21.5-100912	10/9/2012	<0 0083	U		<0 0081	U		<0 0085	U		<0 0074	U		<0 0074	U		0 3			<0 0039	U		<0 0066	U		<0 0066	U	
	29 5 ft	VMP-13-29.5-021811	2/18/2011	<120	U		<120	U		<120	U		<110	U		<110	U		<100	U		<55	U		<94	U		<94	U	
		VMP-13-29.5-040511	4/5/2011	<76	U		<75	U		<79	U		<69	U		<69	U		41	J		<36	U		23	J		<61	U	
		VMP-13-29.5-013012	1/30/2012	<2 3	U		<2 3	U		<2.4	U		0 3	J	J	<2.1	U		39		J	<1.1	U		7 8		J	2.1		J
		VMP-13-29.5-042012	4/20/2012	<3	U		<3	U		<3.1	U		<2.8	U		<2.8	U		17			<1.4	U		1	J		<2.4	U	
		VMP-13-29.5-071912	7/19/2012	<8 8	U		<8 6	U		<9	U		<7.9	U		<7.9	U		<7.5	U		<4.1	U		<7	U		<7	U	
		VMP-13-29.5-100912	10/9/2012	<8 3	U		1 5	J		<8 5	U		<7.4	U	UJ	<7.4	U		4 5	J		<3.9	U		0 67	J		<6.6	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			12			5600												4.8			820			790		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	<0 34	U		<0 33	U		<0 35	U		<0.3	U		<0.3	U		19			<0.16	U		<0 27	U		<0 27	U	
		VMP-14-5-120110	12/1/2010	<0 0065	U		0.0016	J		0.0008	J		<0 0059	U		<0 0059	U		0.014			<0 0031	U		0 0005	J		<0.0052	U	
		VMP-14-5-021711	2/17/2011	<0 0072	U		<0 0071	U		<0 0074	U		<0 0065	J	U	<0 0065	U		0.62			<0 0034	U		<0.0057	J	U	<0.0057	U	
		VMP-14-5-040511	4/5/2011	<0 0073	U		<0 0072	J	U	0.0018	J		<0 0066	U		<0 0066	U		0 0042	J		<0 0034	U		<0.0058	U		<0.0058	U	
		VMP-14-5-080811	8/8/2011	<7.7	U		<7.6	U		<7.9	U		<6.9	U		<6.9	U		120			<3.6	U		<6.1	U		<6.1	U	
		VMP-14-5-111411	11/14/2011	<0.019	U		<0.019	U		<0 02	U		<0.017	U		<0.017	U		0.012	J		<0.009	U		<0.015	U		<0.015	U	
		VMP-14-5-042012	4/20/2012	<0 0047	U		<0 0046	U		0.00086	J		0.00076	J		<0 0042	U		0.077			<0 0022	U		0 0043			0 0014	J	
		VMP-14-5-072312	7/23/2012	<0 0056	U		<0 0055	U		0.0011	J		0.0076			0 0017	J		0 0032	J		<0 0026	U		0.025			0 0072		
		VMP-14-5-101012	10/10/2012	<0 0079	U		<0 0078	U		<0 0081	U		<0 0071	U		<0 0071	U		0.018			<0 0037	U		<0 0063	J	U	<0.0063	U	
	11 5 ft	VMP 14-11 5-091010	9/10/2010	<5.2	U		<5.1	U		<5.4	U		<4.7	U		<4.7	U		230			<2.4	U		<4.1	U		<4.1	U	
		VMP-14-11.5-120110	12/2/2010	<0.46	U		<0.45	U		<0.47	U		<0.41	U		<0.41	U		36			<0 21	U		0.094	J		<0 36	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0.41	U		<0.41	U		<0.43	U		<0 37	U		<0 37	U		36			<0.19	U		0.14	J		<0 33	U	
		VMP-14-11.5-021711	2/17/2011	<0.15	U		<0.15	U		<0.16	U		<0.14	U		<0.14	U		17			<0 07	U		<0.12	U		<0.12	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.15	U		<0.15	U		<0.16	U		<0.14	U		<0.14	U		19			<0 07	U		<0.12	U		<0.12	U	
		VMP-14-11.5-040511	4/5/2011	<0.024	U		<0.024	U		<0.025	U		0.0036	J		<0.022	U		21			<0.011	U		0 0041	J		<0.019	U	
		VMP-14-11.5-080811	8/8/2011	<0.76	U		<0.75	U		<0.78	U		<0 68	U		<0 68	U		20			<0 36	U		<0.6	U		<0.6	U	
		VMP-14-11.5-111511	11/15/2011	<1 2	U		<1.2	U		<1.2	U		<1.1	U		<1.1	U		25			<0 55	U		<0 94	U		<0 94	U	
		VMP-14-11.5-012612	1/26/2012	<4 8	U		<4.7	U		<4.9	U		<17	U		<4.3	U		86			<2.2	U		<3.8	U		<3.8	U	
		VMP-14-11.5-042312	4/23/2012	<0.005	U		<0 0049	U		<0 0051	U		0.00086	J		<0 0045	U		0 028			<0 0023	U		0 0063			0 0017	J	
		VMP-14-11.5-042312-Dup	4/23/2012	<0.005	U		<0 0049	U		<0 0051	U		<0 0045	U		<0 0045	U		0 032			<0 0023	U		0 0046			0 0012	J	
		VMP-14-11.5-072512	7/25/2012	<1 8	U		<1.7	U		<1.8	U		<1.6	U		<1.6	U		8 3			<0 82	U		<1.4	U		<1.4	U	
		VMP-14-11.5-101012	10/10/2012	<0 0075	U		<0 0074	U		<0 0078	U		<0 0068	U		<0 0068	U		0 014			<0 0035	U		<0.006	U		<0.006	U	
	20 ft	VMP 14-20-091010	9/10/2010	<79	U		<78	U		<82	U		<72	U		<72	U		250			<37	U		<63	U		<63	U	
		VMP 14-20-091010-Dup	9/10/2010	<82	U		<81	U		<85	U		<74	U		<74	U		240			<38	U		<66	U		<66	U	
		VMP-14-20-120110	12/2/2010	<210	U		<210	U		<220	U		<190	U		<190	U		320			<100	U		<170	U		<170	U	
		VMP-14-20-021811	2/18/2011	<120	U		<120	U		<120	U		<110	U		<110	U		220			<57	U		<96	U		<96	U	
		VMP-14-20-040511	4/5/2011	<52	U		<51	U		<53	U		<47	U		<47	U		150			<24	U		<41	U		<41	U	
		VMP-14-20-080811	8/8/2011	<19	U		<18	U		<19	U		<17	U		<17	U		220			<8.8	U		<15	U		<15	U	
		VMP-14-20-111511	11/15/2011	<97	U		<96	U		<100	U		<88	U		<88	U		250			<46	U		<77	U		<77	U	
		VMP-14-20-012612	1/26/2012	<9 5	U		<9.4	U		<9.8	U		<34	U		<8.6	U		280		J	<4.5	U		<7.6	U		<7.6	U	
		VMP-14-20-042312	4/23/2012	<5 2	U		<5.1	U		<5.4	U		<4.7	U		<4.7	U		240			<2.4	U		<4.1	U		<4.1	U	
		VMP-14-20-072512	7/25/2012	<8 3	U		<8 2	U		<8.6	U		<7.5	U		<7.5	U		190			<3.9	U		<6.6	U		<6.6	U	
		VMP-14-20-101612	10/16/2012	<38	U		<38	U		<40	U		<35	U		<35	U		150			<18	U		29	J		4 6	J	
	29 ft	VMP-14-29-021811	2/18/2011	<180	U		<170	U		<180	U		<160	U		<160	U		320			<82	U		<140	U		<140	U	
		VMP-14-29-040511	4/5/2011	<150	U		<150	U		<160	U		<140	U		<140	U		280			<70	U		<120	U		<120	U	
		VMP-14-29-012612	1/26/2012	<170	U		<170	U		<180	U		<620	U		<150	U		330			<80	U		<140	U		<140	U	
		VMP-14-29-042312	4/23/2012	<61	U		<60	U		<63	U		<55	U		<55	U		260			<29	U		<49	U		<49	U	
		VMP-14-29-072512	7/25/2012	<64	U		<63	U		<66	U		<58	U		<58	U		260			<30	U		<51	U		<51	U	
		VMP-14-29-101612	10/16/2012	<96	U		<94	U		<99	U		<86	U		<86	U		140			<45	U		31	J		<76	U	
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	<0 0069	U		<0 0068	U		<0 0071	U		<0 0062	U		<0 0062	U		0 028			<0 0032	U		0 0011	J		<0 0055	U	
		VMP-15-5-113010	11/30/2010	<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		56			<0.076	U		<0.13	U		<0.13	U	
		VMP-15-5-021611	2/16/2011	<0.15	U		<0.15	U		<0.16	U		0 017	J		<0.14	U		39			<0.072	U		0 023	J		<0.12	U	
		VMP-15-5-042011	4/20/2011	<0 36	U		<0 35	U		<0 37	U		<0 32	U		<0 32	U		65			<0.17	U		<0 29	U		<0 29	U	
		VMP-15-5-080811	8/8/2011	<0 0081	U		<0.008	U		0.0015	J		0.0034	J		<0 0073	J	U	0 0031	J		<0 0038	U		0 004	J		0 0016	J	
		VMP-15-5-111511	11/15/2011	<0.009	U		<0 0089	U		<0 0093	U		0.0018	J		<0 0082	U		0 096			<0 0042	U		0 005	J		0 0011	J	
		VMP-15-5-020112	2/1/2012	<0.047	U		<0.046	U		<0.048	U		0 013	J	J	<0.042	U		0 026	J		<0.022	U		0 0099	J		<0.037	U	
		VMP-15-5-042412	4/24/2012	<0 048	U		<0.047	U		<0.049	U		<0.043	U		<0.043	U		0.18			<0.022	U		<0.038	U		<0.038	U	
		VMP-15-5-072512	7/25/2012	<0 0054	U		<0 0053	U		0.0016	J		0.0039	J		0 0018	J		0 0012	J		<0 0025	U		0 0085			0 0039	J	
		VMP-15-5-102512	10/25/2012	<0 0081	U		<0.008	U		<0 0083	U		<0 0073	J	U	<0 0073	U		0 019			<0 0038	U		0 0041	J		0 0015	J	
	21 5 ft	VMP 15-21 5-091410	9/14/2010	<0.75	U		<0.74	U		<0.77	U		<0 67	U		<0 67	U		300			<0 35	U		<0 59	U		<0 59	U	
		VMP-15-21.5-113010	11/30/2010	<0 88	U		<0 86	U		<0 9	U		<0.79	U		<0.79	U		440			<0.41	U		<0.7	U		<0.7	U	
		VMP-15-21.5-021611	2/16/2011	<0 61	U		<0 6	U		<0 63	U		<0 55	U		<0 55	U		430			<0 29	U		<0.49	U		<0.49	U	
		VMP-15-21.5-042011	4/20/2011	<0 96	U		<0 94	U		<0 99	U		<0 86	U		<0 86	U		580			<0.45	U		<0.76	U		<0.76	U	
		VMP-15-21.5-080811	8/8/2011	<0.77	U		<0.76	U		<0.79	U		<0 69	U		<0 69	U		310			<0 36	U		<0 61	U		<0 61	U	
		VMP-15-21.5-111511	11/15/2011	<0 61	U		<0 6	U		<0 63	U		<0 55	U		<0 55	U		170			<0 29	U		<0.49	U		<0.49	U	
		VMP-15-21.5-020112	2/1/2012	<0.46	U		<0.45	U		<0.47	U		<1 6	U	UJ	<0.41	U		320		J	<0 21	U		<0 36	U		<0 36	U	
		VMP-15-21.5-042412	4/24/2012	<0 2	U		<0 2	U		<0 2	U		<0.18	U		<0.18	U		210			<0.094	U		<0.16	U		<0.16	U	
		VMP-15-21.5-072512	7/25/2012	<0.72	U		<0.71	U		<0.74	U		<0 65	U		<0 65	U		260			<0 34	U		<0 58	U		<0 58	U	
		VMP-15-21.5-102512	10/25/2012	<1 2	U		0.28	J		<1 2	U		<1.1	U		<1.1	U		110			<0 55	U		<0 94	U		<0 94	U	
		VMP-15-21.5-102512-Dup	10/25/2012	<1 2	U		0.28	J		<1 2	U		<1.1	U		<1.1	U		110			<0 57	U		<0 97	U		<0 97	U	
	25 5 ft	VMP 15-25 5-091410	9/14/2010	<0 007	U		<0 0069	U		0 001	J		<0 0063	U		<0 0063	U		0.17			<0 0033	U		<0 0056	U		<0 0056	U	
		VMP-15-25.5-021611	2/16/2011	<0 094	U		<0 092	U		<0.097	U		<0.084	U		<0.084	U		29			<0.044	U		<0.075	U		<0.075	U	
		VMP-15-25.5-042011	4/20/2011	<0 077	U		<0 076	U		<0.079	U		<0.069	U		<0.069	U		1 2		J	<0.036	U		<0.061	U		<0.061	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0 072	U		<0 071	U		<0.074	U		<0.065	U		<0.065	U		1 6		J	<0.034	U		<0.057	U		<0.057	U	
		VMP-15-25.5-080811	8/8/2011	<0 077	U		<0 076	U		<0.079	U		0.0099	J		<0.069	U		17			<0.036	U		0 016	J		<0.061	U	
		VMP-15-25.5-111511	11/15/2011	<0 024	U		<0 023	U		<0 024	U		<0.021	U		<0.021	U		3			<0.011	U		0 0054	J		<0.019	U	
		VMP-15-25.5-073112	7/31/2012	<0 05	U		<0 049	U		<0 051	U		<0.045	U		<0.045	U		29			<0.023	U		0 011	J		0 0058	J	
		VMP-15-25.5-102512	10/25/2012	<0 0081	U		<0 008	U		<0 0083	U		0.0029	J		0 0015	J		1 9			<0 0038	U		0 004	J		<0 0064	U	
	29 ft	VMP-15-29-073112	7/31/2012	<0 21	U		<0 21	U		<0 22	U		<0.19	U		<0.19	U		150		J	<0.1	U		0 017	J	J	<0.17	U	
		VMP-15-29-102512	10/25/2012	<0 017	U		<0 017	U		<0 017	U		0.0047	J		<0.015	U		3.4			<0 0079	U		0 0042	J		<0.013	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			12			5600												4.8			820			790		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	<13	U		<13	U		<13	U		2 3	J		<12	U		9300			<6.1	U		5.4	J		<10	U	
		VMP-16-5-112910	11/29/2010	<5.9	U		<5.8	U		<6.1	U		<5.4	U		<5.4	U		7600			<2.8	U		2.6	J	J	<4.7	U	
		VMP-16-5-021511	2/15/2011	<3.6	U		<3.5	U		<3.7	U		<3.2	U		<3.2	U		5500			<1.7	U		0 98	J	J	<2.9	U	
		VMP-16-5-042211	4/22/2011	<4.8	U		<4.7	U		<4.9	U		<4.3	U		<4.3	U		7900			<2.2	U		1	J		<3.8	U	
		VMP-16-5-080511	8/5/2011	<1.5	U		<1.5	U		<1.6	U		<1.4	U		<1.4	U		2100			<0.72	U		<1.2	U		<1.2	U	
		VMP-16-5-042512	4/25/2012	<5.2	U		<5.1	U		<5.4	U		<4.7	U		<4.7	U		6800			<2.4	U		<4.1	U		<4.1	U	
		VMP-16-5-073012	7/30/2012	<4.9	U		<4.8	U		<5	U		<4.4	U		<4.4	U		8200			<2.3	U		0 62	J	J	<3.9	U	
		VMP-16-5-102512	10/25/2012	<3.8	U		<3.8	U		<4	U		<3.5	U		<3.5	U		1000		J	<1.8	U		<3.1	U		<3.1	U	
	13 5 ft	VMP-16-13.5-090210	9/2/2010	<13	U		<13	U		<14	U		3 6	J		1.7	J		8200			<6.3	U		6.6	J		<11	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<13	U		<13	U		<14	U		3	J		<12	U		8000			<6.3	U		6.1	J		<11	U	
		VMP-16-13.5-112910	11/29/2010	<38	U		<38	U		<39	U		<34	U		<34	U		11000			<18	U		<30	U		<30	U	
		VMP-16-13.5-021611	2/16/2011	<7.3	U		<7.2	U		<7.6	U		<6.6	U		<6.6	U		5600			<3.4	U		<5.8	U		<5.8	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		6100			<3.4	U		<5.7	U		<5.7	U	
		VMP-16-13.5-042211	4/22/2011	<7.7	U		<7.6	U		<8	U		<7	U		<7	U		7600			<3.6	U		<6.2	U		<6.2	U	
		VMP-16-13.5-080511	8/5/2011	<0.75	U	UJ	<0.74	U	UJ	<0.78	U	UJ	<0 68	U	UJ	<0 68	U	UJ	610		J	<0 35	U	UJ	<0.6	U	UJ	<0.6	U	UJ
		VMP-16-13.5-042512	4/25/2012	<0 83	U		<0 82	U		<0 86	U		0.46	J	J	0.22	J	J	8600			<0 39	U		1.3		J	<0 66	U	
		VMP-16-13.5-073012	7/30/2012	<25	U		<24	U		<26	U		<22	U		<22	U		12000			<12	U		<20	U		<20	U	
		VMP-16-13.5-102512	10/25/2012	<77	U		<76	U		<79	U		<69	U		<69	U		11000			<36	U		<61	U		<61	U	
	19 ft	VMP-16-19-090210	9/2/2010	<13	U		<13	U		<14	U		3 8	J		<12	U		10000			<6.3	U		8.2	J		<11	U	
		VMP-16-19-112910	11/29/2010	<29	U		<29	U		<30	U		<26	U		<26	U		10000			<14	U		<23	U		<23	U	
		VMP-16-19-021611	2/16/2011	<7	U		<6.9	U		<7.2	U		<6.3	U		<6.3	U		5900			<3.3	U		<5.6	U		<5.6	U	
		VMP-16-19-042711	4/27/2011	<7.2	U		3 3	J		<7.4	U		<6.5	U		<6.5	U		5100			<3.4	U		<5.7	U		<5.7	U	
		VMP-16-19-042711-DUP	4/27/2011	<7	U		<6.9	U		<7.2	U		<6.3	U		<6.3	U		5000			<3.3	U		<5.6	U		<5.6	U	
		VMP-16-19-042512	4/25/2012	<19	U		<19	U		<20	U		<17	U		<17	U		9100			<9	U		<15	U		<15	U	
		VMP-16-19-073012	7/30/2012	<17	U		<17	U		<18	U		<16	U		<16	U		8800			<8.1	U		3.3	J		<14	U	
		VMP-16-19-102512	10/25/2012	<72	U		<71	U		<74	U		<65	U		<65	U		8600			<34	U		<57	U		<57	U	
	31 ft	VMP-16-31-090310	9/3/2010	<0 0079	U		<0 0078	U		0.0013	J		0 0028	J		0 0027	J		7.4			<0 0037	U		0 0024	J		<0.0063	U	
		VMP-16-31-112910	11/29/2010	<30	U		<29	U		<31	U		<27	U		<27	U		11000			<14	U		<24	U		<24	U	
		VMP-16-31-042512	4/25/2012	<23	U		<23	U		<24	U		<21	U		<21	U		11000			<11	U		<19	U		<19	U	
		VMP-16-31-073012	7/30/2012	<19	U		<19	U		<20	U		<17	U		<17	U		11000			<8.9	U		<15	U		<15	U	
		VMP-16-31-102512	10/25/2012	<89	U		<88	U		<92	U		<81	U		<81	U		10000			<42	U		<71	U		<71	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.007	U		<0.007	U		0.0013	J		<0.007	U		<0.007	U		1 2			<0.003	U		<0.006	U		<0.006	U	
		VMP-17-5-DUP	6/21/2010	<0.008	U		<0.008	U		0.00099	J		<0.007	U		<0.007	U		1			<0.003	U		<0.006	U		<0.006	U	
		VMP-17-5-090110	9/1/2010	<0 0073	U		<0 0072	U		0.0015	J		<0 0066	U		<0 0066	U		0.12	J	J	<0 0034	U		0 0053	J	J	0 0016	J	J
		VMP-17-5-112210	11/22/2010	<0 0073	U		<0 0072	U		<0 0076	U		<0 0066	U		<0 0066	U		0 0032	J		<0 0034	U		<0.0058	J	U	<0.0058	U	
		VMP-17-5-020711	2/7/2011	<0 0069	U		0.0028	J		0 001	J		<0 0062	U		<0 0062	U		0.083			<0 0032	U		<0.0055	U		<0.0055	U	
		VMP-17-5-040611	4/6/2011	<0.028	U		0.0071	J		<0.028	U		<0.025	U		<0.025	U		0.047			<0.013	U		<0.022	U		<0.022	U	
		VMP-17-5-080111	8/1/2011	<0.1	U		<0.1	U		<0.11	U		<0.095	U		<0.095	U		0.95			<0.049	U		<0.084	U		<0.084	U	
		VMP-17-5-110711	11/7/2011	<0 0047	U		<0 0046	U		0.0008	J		<0 0042	J	U	<0 0042	U		0 0014	J		<0 0022	U		<0.0037	J	U	0.00057	J	
		VMP-17-5-012612	1/26/2012	<0 0049	U		0 019			<0.005	U		<0 0044	U		<0 0044	U		0 0013	J		<0 0023	U		0 0038	J		0.001	J	
		VMP-17-5-041112	4/11/2012	<0.005	U		<0 0049	U		<0 0051	U		<0 0045	J	U	<0 0045	J	U	0 0079			<0 0023	U		0 0063			0 0016	J	
		VMP-17-5-071112	7/11/2012	<0 0053	U		<0 0053	U		0.0012	J		0.0044	J		<0 0048	U		0 0074			<0 0025	U		0 0089			0 0024	J	
		VMP-17-5-100912	10/9/2012	<0 0083	U		<0 0081	U		<0 0085	U		<0 0074	J	U	<0 0074	U		0.025			<0 0039	U		0 0058	J		<0.0066	J	U
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.066	U		<0.065	U		<0.068	U		0.14			0.13			30			<0.031	U		0 26			0.15		
		VMP-25-5-040811	4/8/2011	<0 03	U		<0 03	U		<0.031	U		<0.027	U		<0.027	U		0.73			<0.014	U		<0.024	U		<0.024	U	
		VMP-25-5-080911	8/9/2011	<0 0064	U		0.0019	J		0.0015	J		0.0041	J		0 0015	J		0.076			<0.003	U		0.027			0 0078		
		VMP-25-5-111711	11/17/2011	<0 0046	U		<0 0045	U		<0 0047	U		<0 0041	U		<0 0041	U		0 0029	J		<0 0021	U		<0 0036	U		<0.0036	U	
		VMP-25-5-013112	1/31/2012	<0.033	U		<0.033	U		<0.034	U		<0 03	U		<0 03	U		1.1			<0.016	U		0 0074	J		<0.026	U	
		VMP-25-5-042512	4/25/2012	<0 0052	U		<0 0051	U		<0 0054	U		<0 0047	J	U	<0 0047	U		0 0025	J		<0 0024	U		0 0068			0 0025	J	
		VMP-25-5-072612	7/26/2012	<0.018	U		<0.018	U		<0.018	U		0.0076	J		0 0036	J		<0.015	U		<0 0084	U		0.028			0.011	J	
		VMP-25-5-102612	10/26/2012	<0 0073	U		<0 0072	U		<0 0076	U		<0 0066	U		<0 0066	U		0 067			<0 0034	U		0.001	J		<0 0058	U	
	21 ft	VMP-25-21-031511	3/15/2011	<13	U		<13	U		<13	U		1 9	J		<12	U		<11	U		<6	U		18			4 6	J	
		VMP-25-21-031511-DUP	3/15/2011	<16	U		<16	U		<17	U		<15	U		<15	U		<14	U		<7.7	U		18			5 3	J	
		VMP-25-21-040811	4/8/2011	<140	U		<140	U		<140	U		<120	U		<120	U		<120	U		<64	U		16	J		<110	U	
		VMP-25-21-040811-DUP	4/8/2011	<140	U		<140	U		<140	U		<120	U		<120	U		<120	U		<65	U		14	J		<110	U	
		VMP-25-21-080911	8/9/2011	<45	U		54			<46	U		190			73			2400			<21	U		1000			280		
		VMP-25-21-111711	11/17/2011	<61	U		<60	U		<63	U		<55	U		<55	U		720			<29	U		<49	U		<49	U	
		VMP-25-21-111711-DUP	11/17/2011	<90	U		<89	U		<93	U		<82	U		<82	U		680			<42	U		<72	U		<72	U	
		VMP-25-21-013112	1/31/2012	<32	U		<31	U		<33	U		<120	U		<29	U		<27	U		<15	U		<25	U		<25	U	
		VMP-25-21-013112-DUP	2/1/2012	<30	U		<29	U		<31	U		<110	U		<27	U		<25	U		<14	U		<24	U		<24	U	
		VMP-25-21-042512	4/25/2012	<20	U		<20	U		<21	U		<18	U		<18	U		<17	U		<9.5	U		<16	U		<16	U	
		VMP-25-21-072612	7/26/2012	<34	U		<34	U		<35	U		<31	U		<31	U		<29	U		<16	U		<27	U		<27	U	
		VMP-25-21-102612	10/26/2012	<210	U		14	J		<210	U		<180	U		<180	U		320			<97	U		<160	U		<160	U	
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	<0.058	U		<0.057	U		<0 06	U		<0.052	U		<0.052	U		<0 05	U		<0.027	U		<0.046	U		<0.046	U	
		VMP-29-10-100812	10/8/2012	<0.1	U		<0.1	U		<0.1	U		<0.092	U		<0.092	U		<0.088	U		<0.048	U		<0.082	U		<0.082	U	
	20 ft	VMP-29-20-073012	7/30/2012	<0 68	U		<0 67	U		<0.7	U		<0 62	U		<0 62	U		<0 59	U		<0 32	U		<0 54	U		<0 54	U	
		VMP-29-20-073012-Dup	7/30/2012	<0 64	U		<0 63	U		<0 66	U		<0 58	U		<0 58	U		<0 55	U		<0.3	U		<0 51	U		<0 51	U	
		VMP-29-20-100812	10/8/2012	<0.1	U		<0.1	U		<0.1	U		<0.092	U		<0.092	U		<0.088	U		<0.048	U		<0.082	U		<0.082	U	
	30 ft	VMP-29-30-073012	7/30/2012	<0.11	U		<0.11	U		<0.12	U		<0.1	U		<0.1	U		<0.096	U		<0.053	U		<0.089	U		<0.089	U	
		VMP-29-30-100812	10/8/2012	<0 5	U		<0 5	U		<0 52	U		<0.45	U		<0.45	U		<0.43	U		<0 24	U		<0.4	U		<0.4	U	

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TABLE 6
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes		
				170000			12			5600												4.8			820			790		
				Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	<0.2	U		<0.2	U		<0 21	U		<0.18	U		<0.18	U		<0.17	U		<0.096	U		<0.16	U		<0.16	U	
		VMP-30-10-100812	10/8/2012	<0 0077	U		<0 0076	U		<0 0079	U		<0 0069	U		<0 0069	U		0.036			<0 0036	U		<0.0061	J	U	<0.0061	U	
	20 ft	VMP-30-20-073012	7/30/2012	<0 87	U		<0 85	U		<0 89	U		<0.78	U		<0.78	U		<0.74	U		<0.41	U		<0 69	U		<0 69	U	
		VMP-30-20-100812	10/8/2012	<0 32	U		<0 31	U		<0 32	U		<0 28	U		<0 28	U		<0 27	U		<0.15	U		<0 25	U		<0 25	U	
	30 ft	VMP-30-30-073012	7/30/2012	<0 89	U		<0 88	U		<0 92	U		<0.8	U		<0.8	U		<0.76	U		<0.42	U		<0.71	U		<0.71	U	
		VMP-30-30-100812	10/8/2012	<0 66	U		<0 65	U		<0 68	U		<0 59	U		<0 59	U		0.1	J		<0 31	U		<0 52	U		<0 52	U	
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	<0 0066	U		<0 0065	U		<0 0068	U		0 005	J		0 0014	J		0.013			<0 0031	U		0.015			0 0045	J	
		VMP-41-10-100912	10/9/2012	<0 0081	U		<0.008	U		<0 0083	U		<0 0073	U		<0 0073	U		0.00089	J		<0 0038	U		0 0038	J		<0.0064	U	
	20 ft	VMP-41-20-072712	7/27/2012	<0 0051	U		<0.005	U		0 001	J		0.0027	J		<0 0046	U		0 0039	J		<0 0024	U		0 0079			0 0028	J	
		VMP-41-20-072712-Dup	7/27/2012	<0 0052	U		<0 0051	U		0 001	J		0.0034	J		0.00096	J		0 0032	J		<0 0024	U		0.008			0 0025	J	
		VMP-41-20-100912	10/9/2012	<0 0079	U		<0 0078	U		<0 0081	U		<0 0071	U		<0 0071	U		<0 0068	U		<0 0037	U		0 0037	J		<0.0063	U	
		VMP-41-20-100912-Dup	10/9/2012	<0 0081	U		<0.008	U		<0 0083	U		<0 0073	J	U	<0 0073	U		<0 0069	U		<0 0038	U		0 0035	J		<0.0064	U	
	30 ft	VMP-41-30-072712	7/27/2012	<0 0052	U		<0 0051	U		<0 0054	U		0.0049			0.00092	J		0 013			<0 0024	U		0.007			0 0028	J	
		VMP-41-30-100912	10/9/2012	<0 0085	U		<0 0084	U		<0 0087	U		<0 0076	J	U	<0 0076	U		0 0038	J		<0.004	U		0 0018	J		<0.0068	U	

Notes
Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL
Indicates a historical exceedance or screening criteria.
Indicates a current exceedance or screening criteria.
Empty cell without a value indicates previous quarter analyte result was rejected or the analyte was not part of method list when sampled.
URS Qualifiers
J = Estimated detection
UJ = Estimated non-detect
U = Non-detect due to blank contamination

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5-082510	8/25/2010	3			<0 026	U		<0.0026	U		<0 0026	U		0.95			0.0032			79			17		
		VMP-1-5-111710	11/17/2010	1			<0 026	U		<0.0026	U		<0 0026	U		3 3			0.0013			76			20		
		VMP-1-5-020411	2/4/2011	8			<0.02	U		0 00015	J		<0.002	U		0 036	J		0.26			84			7 5		
		VMP-1-5-041211	4/12/2011	1.8			<0 026	U		<0.0026	U		<0 0026	U		0.54			0.000064	J		78			20		
		VMP-1-5-080111	8/1/2011	7.8			<0 026	U		<0.0026	U		<0 0026	U		0.59			0 00007	J		80			12		
		VMP-1-5-110311	11/3/2011	7.4			<0 018	U		0 00087	J		<0 0018	U		0 017	J		1.7			82			8 5		
		VMP-1-5-013012	1/30/2012	12			<0 018	U		0 00086	J		<0 0018	U		0 026	J		1.4			84			1.7		
		VMP-1-5-041312	4/13/2012	2			<0 018	U		<0.0018	U		<0 0018	U		0.05	J		0.000022	J		78			20		
		VMP-1-5-071612	7/16/2012	1.8			<0 024	U		<0.0024	U		<0 0024	U		1.1			0.0012			78			19		
		VMP-1-5-101112	10/11/2012	0.37			<0 028	U		<0.0028	U		<0 0028	U		0 094			0.000034	J		80			19		
	8.5 ft	VMP-1-8.5-082510	8/25/2010	4.8			<0 026	U		<0.0026	U		<0 0026	U		4.1			0.0032			78			13		
		VMP-1-8.5-111710	11/17/2010	4.8			<0 025	U		<0.0025	U		<0 0025	U		1 9			0.0012			81			12		
		VMP-1-8.5-111710-Dup	11/17/2010	4.6			<0 025	U		<0.0025	U		<0 0025	U		1 9			0 00088			80			13		
		VMP-1-8.5-020411	2/4/2011	11			<0 024	U		0 00031	J		<0 0024	U		0 025	J		0.56			87			1 6		
		VMP-1-8.5-041211	4/12/2011	4.2			<0 026	U		<0.0026	U		<0 0026	U		0 057	J		0 00019	J		83			13		
		VMP-1-8.5-080111	8/1/2011	13			<0 029	U		0 00067	J		<0 0029	U		0 017	J		1 8			84			1 5		
		VMP-1-8.5-080111-Dup	8/1/2011	13			<0 028	U		0 00065	J		<0 0028	U		0 015	J		1 8			83			1.7		
		VMP-1-8.5-110311	11/3/2011	12			<0 016	U		0 002			<0 0016	U		0.0025	J		3 6			81			2 3		
		VMP-1-8.5-013012	1/30/2012	11			<0 018	U		0 00088	J		<0 0018	U		0.0064	J		1.4			84			3 5		
		VMP-1-8.5-041612	4/16/2012	4.4			<0 021	U		<0.0021	U		<0 0021	U		0 037	J		0.000058	J		78			18		
		VMP-1-8.5-041612-Dup	4/16/2012	4.5			<0 021	U		<0.0021	U		<0 0021	U		0 097	J		0.000068	J		77			18		
		VMP-1-8.5-071612	7/16/2012	3.3			<0 025	U		<0.0025	U		<0 0025	U		0 063	J		0 00024	J		80			17		
		VMP-1-8.5-101112	10/11/2012	1.8			<0 028	U		<0.0028	U		<0 0028	U		0 023	J		0.000043	J		81			17		
	23 5 ft	VMP - 1 - 23 5 - 083010	8/30/2010	8.1			<0 027	U		0.0052			<0 0027	U		0 032	J		9.7			78			1 6		
		VMP-1-23.5-111810	11/17/2010	1.6			<0 025	U		<0.0025	U		<0 0025	U		0.86			0.000052	J		78			19		
		VMP-1-23.5-020411	2/4/2011	8.9			<0 023	U		0.0052			<0 0023	U		0 016	J		12			76			1 3		
		VMP-1-23.5-041211	4/12/2011	7.4		J	<0 027	U		0 00072	J		<0 0027	U		0.15			2 2		J	88			2 2		J
		VMP-1-23.5-041211-DUP	4/12/2011	10		J	<0 024	U		0.0011	J		<0 0024	U		0 023	J		2 9		J	85			1 6		J
		VMP-1-23.5-080111	8/1/2011	9.3			<0 026	U		0.0057			<0 0026	U		0.16			10			76			2 2		
		VMP-1-23.5-110611	11/6/2011	10			<0 018	U		0.0029			<0 0018	U		0 089	J		7			80			1 5		
		VMP-1-23.5-013112	1/31/2012	9.1			<0 017	U		0.0023			<0 0017	U		<0.084	U		6			80			4 2		
		VMP-1-23.5-041612	4/16/2012	12			<0 019	U		<0.0019	U		<0 0019	U		0 086	J		0 049			84			3 6		
		VMP-1-23.5-071612	7/16/2012	7.7			<0 019	U		0.0012	J		<0 0019	U		1			2 5			80			7 6		
		VMP-1-23.5-102412	10/24/2012	1.3			<0 029	U		0 00057	J		<0 0029	U		0.14			1 3			78			19		
	38 5 ft	VMP-1-38.5-073112	7/31/2012	1.7			<0 019	U		<0.0019	U		<0 0019	U		<0.094	U		0.000097	J		83			15		
		VMP-1-38.5-102612	10/26/2012	0.29			<0 026	U		0 00068	J		<0 0026	U		1 2			1 8			76			20		
VMP-2	5 ft	VMP - 2 - 5 - 083110	8/31/2010	10			<0 027	U		0 00086	J		<0 0027	U		0 039	J		1 6			85			3 2		
		VMP-2-5-111610	11/16/2010	11			<0 026	U		0.0021	J		<0 0026	U		0.32			3 6			80			4 6		
		VMP-2-5-020411	2/4/2011	10			<0 028	U		0 00055	J		<0 0028	U		0 013	J		1.7			85			3 2		
		VMP-2-5-041311	4/13/2011	3.3			<0 028	U		<0.0028	U		<0 0028	U		0.04	J		0 00014	J		79			18		
		VMP-2-5-080211	8/2/2011	12			<0 029	U		0.0018	J		<0 0029	U		0.0082	J		2.7			83			1 5		
		VMP-2-5-110711	11/7/2011	5.3			<0 017	U		<0.0017	U		<0 0017	U		0 019	J		0.000043	J		85			10		
		VMP-2-5-012512	1/25/2012	12			<0 016	U		<0.0016	U		<0 0016	U		<0.078	U		0.62			84			3		
		VMP-2-5-042512	4/25/2012	6.8			<0 029	U		<0.0029	U		<0 0029	U		0.12	J		0 00036			80			13		
		VMP-2-5-071612	7/16/2012	1.5			<0 025	U		<0.0025	U		<0 0025	U		0 025	J		0.0001	J		80			19		
		VMP-2-5-102412	10/24/2012	0.2			<0 029	U		<0.0029	U		<0 0029	U		0 054	J		0 00011	J		81			19		
	8.5 ft	VMP - 2 - 8.5 - 083110	8/31/2010	11			<0 028	U		0.0025	J		<0 0028	U		0 025	J		4 5			82			1.4		
		VMP-2-8.5-111610	11/16/2010	11			<0 025	U		0.0032			<0 0025	U		0 011	J		6 3			80			1 6		
		VMP-2-8.5-020411	2/4/2011	11			<0 026	U		0.0011	J		<0 0026	U		0.86			3 8			82			1.7		
		VMP-2-8.5-041311	4/13/2011	10			<0 024	U		<0.0024	U		<0 0024	U		0 028	J		0.0027			84			5.4		
		VMP-2-8.5-080211	8/2/2011	9.8			<0 021	U		0.0029			<0 0021	U		0.0091	J		4 8			80			4		
		VMP-2-8.5-110711	11/7/2011	9			<0 017	U		<0.0017	U		<0 0017	U		0 024	J		0 00007	J		85			5.7		
		VMP-2-8.5-012612	1/26/2012	12			<0 016	U		0 00037	J		<0 0016	U		<0.08	U		1 3			85			1 5		J
		VMP-2-8.5-012612-DUP	1/26/2012	12			<0 016	U		0 00034	J		<0 0016	U		<0.08	U		1 2			84			2 5		J
		VMP-2-8.5-041612	4/16/2012	1.8			<0.02	U		<0 002	U		<0.002	U		0 015	J		0.0001	J		78			20		
		VMP-2-8.5-041612-Dup	4/16/2012	1.8			<0.02	U		<0 002	U		<0.002	U		0 017	J		0.000093	J		78			20		
		VMP-2-8.5-071612	7/16/2012	6			<0 028	U		<0.0028	U		<0 0028	U		0 013	J		<0.00028	U		79			15		
		VMP-2-8.5-071612-Dup	7/16/2012	6.1			<0 025	U		<0.0025	U		<0 0025	U		0 016	J		<0.00025	U		79			15		
		VMP-2-8.5-102312	10/23/2012	0.62			<0 029	U		<0.0029	U		<0 0029	U		0 039	J		0.000092	J		80			19		
	22 ft	VMP - 2 - 22 - 083110	8/31/2010	10			<0 028	U		0 004			<0 0028	U		0 041	J		8			79			1.4		
		VMP-2-22-111610	11/16/2010	11			<0 026	U		0.0038			<0 0026	U		<0.13	U		8 2			78			1 5		
		VMP-2-22-020411	2/4/2011	11			<0 024	U		0.0016	J		<0 0024	U		0.01	J		5.1			82			1 5		
		VMP-2-22-041311	4/13/2011	11			<0 026	U		0.0013	J		<0 0026	U		0 049	J		4 3			83			1.7		
		VMP-2-22-080211	8/2/2011	9.7			<0 028	U		0.0041			<0 0028	U		0 021	J		8 2			79			1 9		
		VMP-2-22-110711	11/7/2011	3.7			<0 017	U		0 00039	J		<0 0017	U		0.0062	J		1 2			80			15		
		VMP-2-22-012612	1/26/2012	12			<0 016	U		0 00073	J		<0 0016	U		0 033	J		3.1			83			2		
		VMP-2-22-042712	4/27/2012	3.8			<0 022	U		<0.0022	U		<0 0022	U		0.0089	J		0.000085	J		82			14		
		VMP-2-22-071612	7/16/2012	5.6			<0 026	U		<0.0026	U		<0 0026	U		0 031	J		0 00018	J		81			13		
		VMP-2-22-102312	10/23/2012	3.7			<0 029	U		<0.0029	U		<0 0029	U		0 052	J		0.000042	J		80			16		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-3	5 ft	VMP-3-5-090910	9/9/2010	12			<0 021	U		0.0018	J		<0 0021	U		0 5			7 5			76			2.7		
		VMP-3-5-112210	11/22/2010	8			<0 027	U		0.0028			<0 0027	U		1 5			10			72			6 9		
		VMP-3-5-020911	2/9/2011	4.2			<0 024	U		0 00094	J		<0 0024	U		0.57			3 9			88			2 6		
		VMP-3-5-041411	4/14/2011	9.8			<0 026	U		0.0053			<0 0026	U		0.48			15			71			1 6		
		VMP-3-5-080211	8/2/2011	13			<0 063	U		<0.0063	U		<0 0063	U		0 025	J		0 00046	J		79			7 8		
		VMP-3-5-110811	11/8/2011	3.1			<0 017	U		<0.0017	U		<0 0017	U		0 003	J		<0.00017	U		80			17		
		VMP-3-5-110811-DUP	11/8/2011	3			<0 018	U		<0.0018	U		<0 0018	U		0.0035	J		0 00003	J		80			17		
		VMP-3-5-012712	1/27/2012	1.9			<0 018	U		<0.0018	U		<0 0018	U		<0.088	U		0.000052	J		84			14		
		VMP-3-5-041912	4/19/2012	1.9			<0 026	U		<0.0026	U		<0 0026	U		0 038	J		0.000043	J		79			19		
		VMP-3-5-072712	7/27/2012	0.37			<0.02	U		<0 002	U		<0 002	U		0.33			0 00028			79			20		
	10 ft	VMP-3-10	6/21/2010	7.9			<0.03	U		0.01			<0 003	U		<0.15	U		26			60			1 3		
		VMP 3-10-091010	9/10/2010	9.2			<0 024	U		0 012			<0.0024	U		<0.12	U		28			56			1.1		
		VMP-3-10-092010	9/20/2010	8.3			<0 025	U		0 011			<0 0025	U		<0.12	J	U	26			58			2 9		
		VMP-3-10-112210	11/22/2010	8.7			<0 026	U		0 011			<0 0026	U		0 044	J		25			60			1 6		
		VMP-3-10-112210-Dup	11/22/2010	8.3			<0 026	U		0.0098			<0 0026	U		0 018	J		23			61			2 6		
		VMP-3-10-020811	2/8/2011	8.2			<0 023	U		0.0072			<0 0023	U		0.1	J		18			68			1 8		
		VMP-3-10-041311	4/13/2011	8.2			<0 027	U		0.0092			<0 0027	U		0 098	J		22			64			1 2		
		VMP-3-10-080311	8/3/2011	14			<0 021	U		<0.0021	U		<0 0021	U		0.29			0.29			78			6 9		
		VMP-3-10-110811	11/8/2011	5			<0 018	U		<0.0018	U		<0 0018	U		0 051	J		0.0024			85			9 8		
		VMP-3-10-012712	1/27/2012	2			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.0028			81			17		
		VMP-3-10-042012	4/20/2012	1.4			<0 022	U		<0.0022	U		<0 0022	U		0.14			0.000024	J		80			18		
		VMP-3-10-072312	7/23/2012	1.9			<0.02	U		<0 002	U		<0 002	U		0.94			0 00009	J		78			19		
		VMP-3-10-101812	10/18/2012	0.76			<0.03	U		<0 003	U		<0 003	U		0 024	J		0.000056	J		79			20		
	22 ft	VMP-3-22-092010	9/20/2010	8			<0 024	U		0 013			<0 0024	U		<0.12	J	U	<0.00024	U		52			1.1		
		VMP-3-22-112210	11/22/2010	8.2			<0 023	U		0 011			<0 0023	U		0.02	J		28			56			1 3		
		VMP-3-22-020811	2/8/2011	7.9			<0 045	U		0 013			<0.0045	U		0 013	J		25			60			1 6		
		VMP-3-22-041511	4/15/2011	7.8			<0 025	U		0 012			<0 0025	U		0 028	J		29			56			1 2		
		VMP-3-22-080611	8/6/2011	2.4			<0 032	U		<0.0032	U		<0 0032	U		0.13	J		0.83			84			13		
		VMP-3-22-110811	11/8/2011	1			<0 023	U		<0.0023	U		<0 0023	U		<0.12	U		0.0043			78			21		
		VMP-3-22-013012	1/30/2012	6.8			<0 018	U		<0.0018	U		<0 0018	U		0.0072	J		0.0028			82			11		
		VMP-3-22-042012	4/20/2012	0 97			<0 023	U		<0.0023	U		<0 0023	U		0 016	J		0.0018			79			20		
		VMP-3-22-072312	7/23/2012	0 89			<0.02	U		<0 002	U		<0 002	U		0.13			0 00015	J		79			20		
		VMP-3-22-101812	10/18/2012	2.9			<0.03	U		<0 003	U		<0 003	U		0.02	J		0.000076	J		79			18		
	31 5 ft	VMP-3-31.5-090910	9/9/2010	4.4			<0 021	U		0 017			<0.0021	U		0 018	J		47			30			1 3		
		VMP-3-31.5-112210	11/22/2010	4.9			<0 026	U		0 017			<0 0026	U		0 024	J		47			32			1.1		
		VMP-3-31.5-020911	2/9/2011	6.4			<0.02	U		0 014			<0 002	U		0 016	J		37			46			2		
		VMP-3-31.5-041411	4/14/2011	5.7			<0 025	U		0 016			<0 0025	U		0 019	J		48			33			0.86		
		VMP-3-31.5-041411-DUP	4/14/2011	5.7			<0 025	U		0 016			<0 0025	U		0 066	J		48			32			1		
		VMP-3-31.5-080211	8/2/2011	4.7			<0 028	U		0 017			<0.0028	U		0 035	J		50			27			0.92		
		VMP-3-31.5-080211-Dup	8/2/2011	4.6			<0 028	U		0 017			<0 0028	U		0 041	J		49			28			1.4		
		VMP-3-31.5-110811	11/8/2011	0 37			<0 018	U		0 00079	J		<0 0018	U		0.02	J		2.1			77			20		
		VMP-3-31.5-012712	1/27/2012	5.9			<0 017	U		0.0026			<0 0017	U		<0 083	U		11			74			6 8		
		VMP-3-31.5-041912	4/19/2012	7.6			<0 019	U		0.0062			<0 0019	U		1 3			18			64			1 6		
		VMP-3-31 5-041912-Dup	4/19/2012	7.6			<0 018	U		0.0051			<0 0018	U		1.4			18			64			1 6		
		VMP-3-31 5-072312	7/23/2012	7.7			<0 018	U		0.0018			<0 0018	U		0 014	J		5 3			89			3		
		VMP-3-31 5-101912	10/19/2012	2.8			<0 028	U		<0.0028	U		<0 0028	U		<0.14	U		0.21			80			17		
	39 ft	VMP-3-39-101912	10/19/2012	8.1			<0 028	U		0 005			<0 0028	U		0 058	J		12			72			3 5		
VMP-4	5 ft	VMP-4-5-082510	8/25/2010	13			<0 029	U		0.0005	J		<0 0029	U		0 026	J		1.7			83			2.1		
		VMP-4-5-112210	11/22/2010	13			<0 027	U		0.0052			<0 0027	U		0 024	J		14			69			1 9		
		VMP-4-5-021411	2/14/2011	4.8			<0 025	U		0 00027	J		<0 0025	U		2 9			0.7			79			12		
		VMP-4-5-041911	4/19/2011	12			<0 026	U		0.0044			<0 0026	U		0 031	J		12			72			1 3		
		VMP-4-5-080311	8/3/2011	11			<0 031	U		<0.0031	U		<0 0031	U		0 012	J		0.01			80			8.4		
		VMP-4-5-110911	11/9/2011	0 056			<0 022	U		<0.0022	U		<0 0022	U		0 077	J		0.0002	J		78			22		
		VMP-4-5-013012	1/30/2012	9.5			<0 018	U		<0.0018	U		<0 0018	U		0 058	J		0 00071			88			1 9		
		VMP-4-5-042512	4/25/2012	1.5			<0 029	U		<0.0029	U		<0 0029	U		0 054	J		0.000042	J		80			18		
		VMP-4-5-072512	7/25/2012	2.1			<0 021	U		<0.0021	U		<0 0021	U		0.04	J		0 00022			80			18		
		VMP-4-5-101812	10/18/2012	0.74			<0 031	U		<0.0031	U		<0 0031	U		0 5			0 00012	J		79			20		
	12 ft	VMP-4-12-082510	8/25/2010	14			<0 025	U		0.0039			<0 0025	U		0 042	J		17			66			1 2		
		VMP-4-12-112310	11/23/2010	13			<0 026	U		0.0036			<0 0026	U		<0.13	U		12			72			1 3		
		VMP-4-12-021411	2/14/2011	9			<0 026	U		0.0016	J		<0 0026	U		0.35			4.7			80			5 3		
		VMP-4-12-041911	4/19/2011	11			<0 025	U		0.0046			<0 0025	U		0 035	J		13			72			1 5		
		VMP-4-12-080311	8/3/2011	15			<0 029	U		0.0018	J		<0 0029	U		1			6 9			75			1 6		
		VMP-4-12-080311-Dup	8/3/2011	15			<0 029	U		0.0018	J		<0 0029	U		1			6 9			75			1.7		
		VMP-4-12-110911	11/9/2011	8.5			<0 018	U		0.000082	J		<0 0018	U		4 8			0.38			79			7 2		
		VMP-4-12-013012	1/30/2012	11			<0 018	U		0 00016	J		<0 0018	U		0.11			0.47			86			1.7		
		VMP-4-12-041812	4/18/2012	1.7			<0 027	U		<0.0027	U		<0 0027	U		0 027	J		0 00042			73			25		
		VMP-4-12-072312	7/23/2012	2.7			<0 018	U		<0.0018	U		<0 0018	U		0 84			0 00029			78			18		
		VMP-4-12-101812	10/18/2012	0 98			<0.03	U		<0 003	U		<0 003	U		0 52			0 00014	J		78			20		
		VMP-4-12-101812-Dup	10/18/2012	1			<0 031	U		<0.0031	U		<0 0031	U		0 59			0 00014	J		78			20		
	23 5 ft	VMP - 4 - 23 5 - 083110	8/31/2010	6.1			<0 029	U		0 018			<0.0029	U		<0.14	J	U	43			38			0.81		
		VMP-4-23 5-112310	11/23/2010	6.7			<0 023	U		0 021			<0 0023	U		0 01	J		50			28			0.77		
		VMP-4-23 5-021411	2/14/2011	6.5			<0 021	U		0 021			<0 0021	U		0 022	J		51			28			0.91		
		VMP-4-23 5-042011	4/20/2011	6			<0 023	U		0 019			<0 0023	U		0 85		J	46			33			1.4		
		VMP-4-23 5-042011-DUP	4/20/2011	6			<0 023	U		0 02			<0 0023	U		0 06	J	J	49			31			1 2		
		VMP-4-23 5-080611	8/6/2011	5.9			<0 028	U		0 02			<0.0028	U		0 01	J		45			35			1		
		VMP-4-23 5-110911	11/9/2011	5.6			<0 017	U		0.0097			<0 0017	U		0 043	J		19			64			4 8		
		VMP-4-23 5-013012	1/30/2012	8.4			<0 018	U		0.0047			<0 0018	U		0 01	J		9 2			75			1.4		
		VMP-4-23 5-013012-DUP	1/30/2012	8.5			<0 018	U		0.0047			<0 0018	U		<0 088	U		9 2			75			1 5		
		VMP-4-23 5-041912	4/19/2012	12			<0.02	U		0 00015	J		<0 002	U		0 015	J		1 2			83			2 2		
		VMP-4-23 5-072312	7/23/2012	10			<0 019	U		0.000067	J		0 00022	J		0 01	J		0.47			84			4 6		
		VMP-4-23 5-101812	10/18/2012	7.5			<0 029	U		<0.0029	U		0 00006	J		0 031	J		0 32			78			14		
	39 ft	VMP-4-39-042111	4/21/2011	6.1			<0 025	U		0 021			<0 0025	U		0 018	J		51			29			0 9		
		VMP-4-39-041912	4/19/2012	12			<0.02	U		0 0004	J		<0 002	U		0 018	J		2.1			81			2		
		VMP-4-39-072312	7/23/2012	12			<0 019	U		0 00023	J		0 00029	J		<0 096	U		1.1			83			2 5		
		VMP-4-39-101812	10/18/2012	8.8			<0.03	U		0 0005	J		0.000087	J		0 048			3.1			75			13		
		VMP-4-39-101812-Dup	10/18/2012	8.7			<0 028	U		0 00049	J		0.000089	J		0 012	J		3.1			75			13		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5-090910	9/9/2010	12			<0 026	U		0.0036			<0 0026	U		1 6			3 9			78			2.4		
		VMP-5-5-112210	11/22/2010	13			<0 026	U		0.0046			<0 0026	U		0.01	J		7			76			1 6		
		VMP-5-5-021611	2/16/2011	8			<0 025	U		<0.0025	U		<0 0025	U		0.47			0 064			76			15		
		VMP-5-5-042111	4/21/2011	2			<0 026	U		<0.0026	U		<0 0026	U		0.1	J		<0.00026	U		78			20		
		VMP-5-5-080511	8/5/2011	7.9			<0 025	U		<0.0025	U		<0 0025	U		0 2			0.0013			81			11		
		VMP-5-5-111111	11/11/2011	14			<0 019	U		<0.0019	U		<0 0019	U		0 019	J		0.0003			81			5 3		
		VMP-5-5-013012	1/30/2012	7.7			<0 019	U		<0.0019	U		<0 0019	U		<0.094	U		0.000052	J		80			12		
		VMP-5-5-041112	4/11/2012	0.36			<0 024	U		<0.0024	U		<0 0024	U		1.4			0.000086	J		77			21		
		VMP-5-5-071312	7/13/2012	0.53			<0 027	U		<0.0027	U		<0 0027	U		0.99			0 00012	J		78			20		
		VMP-5-5-101212	10/12/2012	0.1			<0 025	U		<0.0025	U		<0 0025	U		1 5			0 00011	J		78			20		
	12 5 ft	VMP-5-12.5-090910	9/9/2010	14			<0 026	U		0.0032			<0 0026	U		0 039	J		3.7			79			1 3		
		VMP-5-12.5-112310	11/23/2010	12			<0 026	U		<0.0026	U		<0 0026	U		0 026	J		0 025			83			5 2		
		VMP-5-12.5-021611	2/16/2011	13			<0 024	U		0 00031	J		<0 0024	U		0.04	J		0.68			83			2 9		
		VMP-5-12.5-042111	4/21/2011	6.9			<0 028	U		<0.0028	U		<0 0028	U		0 089	J		0 00015	J		80			13		
		VMP-5-12.5-080611	8/6/2011	12			<0 025	U		0.0034			<0 0025	U		0 013	J		6 6			76			3.7		
		VMP-5-12.5-111111	11/11/2011	14			<0 018	U		<0.0018	U		<0 0018	U		0 014	J		<0.00018	U		81			5.1		
		VMP-5-12.5-013012	1/30/2012	8.2			<0.02	U		<0 002	U		<0 002	U		0 016	J		0.000036	J		80			12		
		VMP-5-12.5-041112	4/11/2012	0.64			<0 022	U		<0.0022	U		<0 0022	U		0.16			<0.00022	U		79			20		
		VMP-5-12.5-071212	7/12/2012	0.76			<0 021	U		<0.0021	U		<0 0021	U		4 6			0.000079	J		76			19		
		VMP-5-12.5-101112	10/11/2012	0.16			<0 064	U		<0.0064	U		<0 0064	U		0 5			0.000089	J		77			22		
	31 ft	VMP-5-31-090910	9/9/2010	9			<0 022	U		0 015			<0.0022	U		<0.11	J	U	26			55			1 5		
		VMP-5-31-112310	11/23/2010	9.2			<0 024	U		0 012			<0 0024	U		0 012	J		28			53			1 2		
		VMP-5-31-021611	2/16/2011	9.2			<0 028	U		0 015			<0 0028	U		0 022	J		24			58			1 3		
		VMP-5-31-042111	4/21/2011	9			<0 026	U		0 012			<0 0026	U		0 015	J		22			60			1 6		
		VMP-5-31-080611	8/6/2011	9.2			<0 028	U		0 013			<0.0028	U		0.01	J		24			58			1 2		
		VMP-5-31-111111	11/11/2011	10			<0 018	U		0.0073			<0 0018	U		0.39			13			71			1.4		
		VMP-5-31-013012	1/30/2012	10			<0 018	U		0.0034			<0 0018	U		<0.09	U		6			80			1 8		
		VMP-5-31-041112	4/11/2012	12			<0 019	U		<0.0019	U		<0 0019	U		0 096			0.02			86			1.7		
		VMP-5-31-071212	7/12/2012	7			<0.02	U		<0 002	U		<0 002	U		0 062	J		0 00087			79			14		
		VMP-5-31-101112	10/11/2012	4			<0 028	U		<0.0028	U		<0 0028	U		0 068			0 00027	J		80			16		
	40 ft	VMP-5-40-042111	4/21/2011	8.3			<0 028	U		0 011			<0 0028	U		1.4			19			62			2 6		
		VMP-5-40-013012	1/30/2012	11			<0 019	U		0.0034			<0 0019	U		0.81			6.1			79			1 6		
		VMP-5-40-041212	4/12/2012	11			<0 019	U		<0.0019	U		<0 0019	U		0.77			0 033			84			4 6		
		VMP-5-40-071212	7/12/2012	6.3			<0.02	U		<0 002	U		<0 002	U		0 097	J		0.0096			78			16		
		VMP-5-40-101112	10/11/2012	3.5			<0.03	U		<0 003	U		<0 003	U		0 046			0.0034			79			17		
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	15			<0 026	U		0 00049	J		<0 0026	U		<0.13	J	U	1.4			82			1.4		
		VMP-6-5-111610	11/16/2010	14			<0 028	U		0.0012	J		<0 0028	U		0 074	J		2.7			81			1 5		
		VMP-6-5-020711	2/7/2011	1.7			<0 024	U		<0.0024	U		<0 0024	U		0.42			0.000049	J		79			19		
		VMP-6-5-040811	4/8/2011	2			<0 026	U		<0.0026	U		<0 0026	U		0.44			0.0011			78			19		
		VMP-6-5-080411	8/4/2011	3.4			<0 027	U		<0.0027	U		<0 0027	U		0.59			<0.00027	U		80			16		
		VMP-6-5-110911	11/9/2011	1.8			<0 016	U		<0.0016	U		<0 0016	U		0.55			<0.00016	U		78			20		
		VMP-6-5-013112	1/31/2012	9.4			<0 017	U		<0.0017	U		<0 0017	U		0.02	J		0 00097			78			12		
		VMP-6-5-041212	4/12/2012	0.18			<0.02	U		<0 002	U		<0 002	U		0.17			0.000025	J		79			21		
		VMP-6-5-071612	7/16/2012	0 31			<0 027	U		<0.0027	U		<0 0027	U		0.12	J		0.0001	J		80			20		
		VMP-6-5-101012	10/10/2012	0 096			<0 028	U		<0.0028	U		<0 0028	U		1 6			0 00011	J		78			20		
	10 ft	VMP-6-10-090810	9/8/2010	15			<0 024	U		0.0012	J		<0 0024	U		<0.12	J	U	3 6			80			1 3		
		VMP-6-10-111710	11/17/2010	9.8			<0 026	U		<0.0026	U		<0 0026	U		0 092	J		<0.00026	U		82			8 5		
		VMP-6-10-020711	2/7/2011	8.5			<0 025	U		<0.0025	U		<0 0025	U		0.67			<0.00025	U		82			9 2		
		VMP-6-10-040811	4/8/2011	11			<0.03	U		<0 003	U		<0 003	U		0.04	J		0 00028	J		84			5		
		VMP-6-10-080411	8/4/2011	15			<0 026	U		0.0011	J		<0 0026	U		0.05	J		3 2			80			1 9		
		VMP-6-10-111011	11/10/2011	9.5			<0 017	U		<0.0017	U		<0 0017	U		0 068	J		<0.00017	U		81			9 2		
		VMP-6-10-013112	1/31/2012	15			<0 018	U		0 00027	J		<0 0018	U		<0.09	U		0.73			82			1 6		
		VMP-6-10-041212	4/12/2012	2			<0.02	U		<0 002	U		<0 002	U		0 078	J		<0 0002	U		79			19		
		VMP-6-10-071612	7/16/2012	1.8			<0 035	U		<0.0035	U		<0 0035	U		0 079	J		<0.00035	U		78			20		
		VMP-6-10-101112	10/11/2012	0 54			<0 029	U		<0.0029	U		<0 0029	U		0 078			0.000052	J		79			20		
	31 5 ft	VMP-6-31 5-090810	9/8/2010	14			<0 026	U		0.0032			<0 0026	U		<0.13	U		8 6			74			1 2		
		VMP-6-31 5-111710	11/17/2010	13			<0 025	U		0 003			<0 0025	U		0 012	J		7 5			76			1.4		
		VMP-6-31 5-020711	2/7/2011	13			<0 024	U		0.0023	J		<0 0024	U		0.01	J		5 9			78			1 5		
		VMP-6-31 5-041111	4/11/2011	13			<0 028	U		0.0021	J		<0 0028	U		0.08	J		5 2			80			1 5		
		VMP-6-31 5-080411	8/4/2011	12			<0 028	U		0.0024	J		<0 0028	U		0 015	J		6 2			78			2 6		
		VMP-6-31 5-111011	11/10/2011	14			<0 017	U		0.0023			<0 0017	U		0.0076	J		5.7			78			1.4		
		VMP-6-31 5-013112	1/31/2012	14			<0 017	U		0.0018			<0 0017	U		<0 086	U		4.4			79			1 8		
		VMP-6-31 5-041212	4/12/2012	10			<0 018	U		<0.0018	U		<0 0018	U		0 073	J		0 089			85			4.7		
		VMP-6-31 5-071612	7/16/2012	7.5			<0 024	U		<0.0024	U		<0 0024	U		0 069	J		0.0035			84			8 8		
		VMP-6-31 5-101112	10/11/2012	5.5			<0 028	U		<0.0028	U		<0 0028	U		0 034			0.0024			82			12		
	39 ft	VMP-6-39-041111	4/11/2011	12			<0 027	U		0.0022	J		<0 0027	U		0 083	J		5 2			77			3 9		
		VMP-6-39-013112	1/31/2012	14			<0 017	U		0.0023			<0 0017	U		<0 086	U		5.1			78			1.4		
		VMP-6-39-041212	4/12/2012	12			<0.02	U		0.000059	J		<0 002	U		0.13			0.15			86			1 6		
		VMP-6-39-071612	7/16/2012	10			<0 026	U		<0.0026	U		<0 0026	U		0 053	J		0.0073			84			5 6		
		VMP-6-39-071612-Dup	7/16/2012	10			<0 027	U		<0.0027	U		<0 0027	U		0 079	J		0.0074			84			5 6		
		VMP-6-39-101112	10/11/2012	9.4			<0 035	U		<0.0035	U		<0 0035	U		0.12			0.0034			84			6 3		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5-082610	8/26/2010	2.7			<0 026	U		<0.0026	U		<0 0026	U		1 9			0.0002	J		79			16		
		VMP-7-5-111910	11/19/2010	14			<0 024	U		<0.0024	U		<0 0024	U		0.76			0.0052			80			5.1		
		VMP-7-5-020711	2/7/2011	2.6			<0 026	U		<0.0026	U		<0 0026	U		0 082	J		0.000048	J		80			17		
		VMP-7-5-040711	4/7/2011	5.3			<0 027	U		<0.0027	U		<0 0027	U		0 025	J		<0.00027	U		80			15		
		VMP-7-5-080211	8/2/2011	16			<0 029	U		0 00035	J		<0 0029	U		0 014	J		2 3			80			1 5		
		VMP-7-5-111011	11/10/2011	13			<0 022	U		<0.0022	U		<0 0022	U		<0.11	U		<0.00022	U		80			6 8		
		VMP-7-5-111011-DUP	11/10/2011	12			<0 016	U		<0.0016	U		<0 0016	U		0 012	J		0.000022	J		80			7 9		
		VMP-7-5-013112	1/31/2012	11			<0 018	U		<0.0018	U		<0 0018	U		<0.088	U		0.000017	J		82			7 2		
		VMP-7-5-041212	4/12/2012	0.59			<0 019	U		<0.0019	U		<0 0019	U		0.15			0 00002	J		78			21		
		VMP-7-5-073112	7/31/2012	0.14			<0.02	U		<0 002	U		<0 002	U		0.59			0 00022			78			21		
		VMP-7-5-101012	10/10/2012	0.23			<0.03	U		<0 003	U		<0 003	U		0 032			0 00011	J		80			20		
	13 5 ft	VMP-7-13.5-082610	8/26/2010	16			<0 029	U		0.000083	J		<0 0029	U		0 041	J		0.57			82			1 5		
		VMP-7-13.5-111910	11/19/2010	16			<0 024	U		0 00025	J		<0 0024	U		0 014	J		1 8			80			1 6		
		VMP-7-13.5-020711	2/7/2011	9.5			<0 025	U		<0.0025	U		<0 0025	U		0.0099	J		0 00016	J		82			8 6		
		VMP-7-13.5-040711	4/7/2011	11			<0 026	U		<0.0026	U		<0 0026	U		0 033	J		<0.00026	U		81			7 6		
		VMP-7-13.5-080311	8/3/2011	17			<0 029	U		0 00029	J		<0 0029	U		0 012	J		1 9			79			1 6		
		VMP-7-13.5-111011	11/10/2011	16			<0 016	U		<0.0016	U		<0 0016	U		0.0033	J		0 045			82			2.1		
		VMP-7-13.5-013112	1/31/2012	15			<0 018	U		<0.0018	U		<0 0018	U		0.41		J	0 014			83			1 6		
		VMP-7-13.5-013112-DUP	1/31/2012	15			<0 018	U		<0.0018	U		<0 0018	U		<0 092	U	UJ	0 014			83			1 5		
		VMP-7-13.5-041212	4/12/2012	0 69			<0 018	U		<0.0018	U		<0 0018	U		0 046	J		0.000046	J		78			21		
		VMP-7-13.5-041312-DUP	4/12/2012	0.8			<0 019	U		<0.0019	U		<0 0019	U		0 052	J		<0.00019	U		79			20		
		VMP-7-13.5-072012	7/20/2012	1.4			<0 019	U		<0.0019	U		<0 0019	U		0 034	J		0.000024	J		79			20		
		VMP-7-13.5-101012	10/10/2012	0.44			<0 028	U		<0.0028	U		<0 0028	U		0 028			0.000039	J		80			20		
	29 5 ft	VMP - 7 - 29 5 - 083110	8/31/2010	15			<0 025	U		0 00058	J		<0.0025	U		<0.12	J	U	4.1			79			1 3		
		VMP-7-29.5-111910	11/19/2010	16			<0 025	U		0 00068	J		<0 0025	U		0 011	J		3.4			79			1 5		
		VMP-7-29.5-020711	2/7/2011	15			<0 026	U		0 00032	J		<0 0026	U		0 2			2			81			1 5		
		VMP-7-29.5-040711	4/7/2011	13			<0 025	U		0 00022	J		<0 0025	U		0 016	J		1.4			81			4.7		
		VMP-7-29.5-080311	8/3/2011	15			<0.03	U		0 00071	J		<0 003	U		0.0071	J		3 6			80			1.4		
		VMP-7-29.5-111111	11/11/2011	16			<0 018	U		0 00026	J		<0 0018	U		0.0032	J		1 8			80			1.4		
		VMP-7-29.5-020112	2/1/2012	15			<0 018	U		0 00016	J		<0 0018	U		<0 088	U		1			82			2		
		VMP-7-29.5-041312	4/13/2012	8.8			<0 018	U		<0.0018	U		<0 0018	U		0 062	J		0.0019			79			12		
		VMP-7-29.5-072012	7/20/2012	5.6			<0 019	U		<0.0019	U		<0 0019	U		0 014	J		0.000084	J		78			16		
		VMP-7-29.5-072012-Dup	7/20/2012	5.8			<0 019	U		<0.0019	U		<0 0019	U		0.02	J		0.000092	J		77			17		
		VMP-7-29.5-101012	10/10/2012	4.5			<0 029	U		<0.0029	U		<0 0029	U		0 078			0 00022	J		78			17		
	38 ft	VMP-7-38-020711	2/7/2011	16			<0 022	U		0 00063	J		<0 0022	U		0.0087	J		2 2			80			1 5		
		VMP-7-38-040711	4/7/2011	15			<0 026	U		0 00028	J		<0 0026	U		0 013	J		1 8			81			1 9		
		VMP-7-38-020112	2/1/2012	15			<0 017	U		0 00017	J		<0 0017	U		<0 084	U		1.1			81			2 5		
		VMP-7-38-042512	4/25/2012	0 64			<0 024	U		<0.0024	U		<0 0024	U		0 034	J		0.000066	J		79			20		
		VMP-7-38-042512-Dup	4/25/2012	0 54			<0 024	U		<0.0024	U		<0 0024	U		0.04	J		0.000054	J		79			20		
		VMP-7-38-101112	10/11/2012	0.17			<0 027	U		<0.0027	U		<0 0027	U		0.11			0 00011	J		80			20		
VMP-8	5 ft	VMP - 8 - 5 - 083010	8/30/2010	7.3			<0 027	U		<0.0027	U		<0.0027	U		0 039	J		0 00032			80			13		
		VMP-8-5-111810	11/17/2010	2			<0 023	U		<0.0023	U		<0 0023	U		0.14			0.0002	J		78			20		
		VMP-8-5-021011	2/10/2011	4			<0 025	U		<0.0025	U		<0 0025	U		0 018	J		0 00015	J		81			15		
		VMP-8-5-040711	4/7/2011	2.9			<0 028	U		<0.0028	U		<0 0028	U		0 032	J		0 00017	J		77			20		
		VMP-8-5-072711	7/27/2011	8.8			<0.03	U		<0 003	U		<0 003	U		0 018	J		0.000085	J		79			12		
		VMP-8-5-110311	11/3/2011	0 61			<0 017	U		<0.0017	U		<0 0017	U		<0 086	U		0.0001	J		82			17		
		VMP-8-5-012312	1/23/2012	1.1			<0 019	U		<0.0019	U		<0 0019	U		0.46			0 00024			77			21		
		VMP-8-5-041012	4/10/2012	2.1			<0 024	U		<0.0024	U		<0 0024	U		0 076	J		0 00013	J		81			17		
		VMP-8-5-071312	7/13/2012	2.1			<0 016	U		<0.0016	U		<0 0016	U		22			0 00016			61			15		
		VMP-8-5-073112	7/31/2012	3.5			<0 021	U		<0.0021	U		<0 0021	U		0.0093	J		0 00016	J		78			18		
		VMP-8-5-100412	10/4/2012	2			<0 028	U		<0.0028	U		<0 0028	U		0.11	J		0.000097	J		79			18		
		VMP-8-5-100412-Dup	10/4/2012	2			<0 026	U		<0.0026	U		<0 0026	U		0 051	J		0.000099	J		80			18		
	9.5 ft	VMP - 8 - 9 5 - 083010	8/30/2010	8.4			<0 051	U		<0.0051	U		<0.0051	U		<0.25	J	U	0.000048	J		80			12		
		VMP - 8 - 9 5 - 083010-DUP	8/30/2010	9.1			<0 025	U		<0.0025	U		<0.0025	U		0 024	J		0.000026	J		81			9 8		
		VMP-8-9.5-111810	11/17/2010	8.5			<0 024	U		<0.0024	U		<0 0024	U		0 026	J		0.000053	J		78			13		
		VMP-8-9.5-021011	2/10/2011	7.9			<0 025	U		<0.0025	U		<0 0025	U		0 015	J		<0.00025	U		79			13		
		VMP-8-9.5-040711	4/7/2011	7.4			<0 028	U		<0.0028	U		<0 0028	U		0 043	J		<0.00028	U		79			14		
		VMP-8-9.5-072711	7/27/2011	7.2			<0.04	U		<0 004	U		<0 004	U		0.0098	J		<0 0004	U		78			15		
		VMP-8-9.5-110311	11/3/2011	6.5			<0 017	U		<0.0017	U		<0 0017	U		0.0035	J		0.000027	J		79			14		
		VMP-8-9.5-012312	1/23/2012	6.2			<0 018	U		<0.0018	U		<0 0018	U		<0 092	U		0.000047	J		78			16		
		VMP-8-9.5-041012	4/10/2012	5.3			<0 024	U		<0.0024	U		<0 0024	U		0.06	J		0.000058	J		80			15		
		VMP-8-9.5-071312	7/13/2012	5.8			<0 019	U		<0.0019	U		<0 0019	U		0 092	J		0.000028	J		78			16		
		VMP-8-9.5-071312-Dup	7/13/2012	5.6			<0 018	U		<0.0018	U		<0 0018	U		0 026	J		0.000039	J		78			16		
		VMP-8-9.5-100412	10/4/2012	4.4			<0.03	U		<0 003	U		<0 003	U		0 032	J		0 00016	J		80			16		
	23 5 ft	VMP - 8 - 23 5 - 083010	8/30/2010	9.3			<0 026	U		<0.0026	U		<0.0026	U		0 036	J		0.000032	J		81			9 9		
		VMP-8-23 5-111910	11/19/2010	9.9			<0 025	U		<0.0025	U		<0 0025	U		0 028	J		0.000069	J		79			11		
		VMP-8-23 5-021011	2/10/2011	9.3			<0 027	U		<0.0027	U		<0 0027	U		0.02	J		<0 00027	U		79			12		
		VMP-8-23 5-040711	4/7/2011	8.3			<0 025	U		<0.0025	U		<0 0025	U		0 029	J		<0.00025	U		79			13		
		VMP-8-23 5-040711-DUP	4/7/2011	11			<0.06	U		<0 006	U		<0 006	U		1 2			<0 0006	U		72			16		
		VMP-8-23 5-081011	8/10/2011	8.8			<0 026	U		<0.0026	U		<0 0026	U		0.0086	J		<0 00026	U		79			12		
		VMP-8-23 5-110611	11/6/2011	9.4			<0 019	U		<0.0019	U		<0 0019	U		0 006	J		0.000096	J		68			22		
		VMP-8-23 5-012312	1/23/2012	7.6			<0 019	U		<0.0019	U		<0 0019	U		<0 096	U		0 00029			77			15		
		VMP-8-23 5-041012	4/10/2012	6.3			<0 024	U		<0.0024	U		<0 0024	U		0.13			0.000097	J		80			14		
		VMP-8-23 5-071312	7/13/2012	6.3			<0 021	U		<0.0021	U		<0 0021	U		0 048	J		0.000046	J		79			15		
		VMP-8-23 5-100412	10/4/2012	5.9			<0 029	U		<0.0029	U		<0 0029	U		0.14	J		0 00038			78			16		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5-082610	8/26/2010	10			<0 023	U		<0.0023	U		<0 0023	U		0 012	J		0.000061	J		81			9.1		
		VMP-9-5-111910	11/19/2010	14			<0 024	U		<0.0024	U		<0 0024	U		0 042	J		0 00036			82			3 8		
		VMP-9-5-020811	2/8/2011	1.5			<0 022	U		<0.0022	U		<0 0022	U		0.01	J		<0.00022	U		78			20		
		VMP-9-5-040611	4/6/2011	10			<0 061	U		<0.0061	U		<0 0061	U		0 034	J		<0.00061	U		83			6 8		
		VMP-9-5-080211	8/2/2011	15			<0.03	U		<0 003	U		<0.003	U		0 015	J		0.24			83			1 8		
		VMP-9-5-110411	11/4/2011	3			<0 018	U		<0.0018	U		<0 0018	U		0.0093	J		0.000035	J		80			17		
		VMP-9-5-012612	1/26/2012	12			<0 015	U		<0.0015	U		<0 0015	U		<0.074	U		0 00017			82			6		
		VMP-9-5-041112	4/11/2012	0.34			<0 023	U		<0.0023	U		<0 0023	U		0.22			0 00009	J		80			19		
		VMP-9-5-071312	7/13/2012	0 045			<0 019	U		<0.0019	U		<0 0019	U		0 014	J		0 00022			79			21		
		VMP-9-5-101012	10/10/2012	0.21			<0 029	U		<0.0029	U		<0 0029	U		0 089			0.000099	J		80			20		
	11 5 ft	VMP-9-11.5-082610	8/26/2010	15			<0 026	U		0 00015	J		<0 0026	U		0 042	J		1 8			82			1.4		
		VMP-9-11.5-111910	11/19/2010	16			<0 027	U		<0.0027	U		<0 0027	U		0 021	J		1 5			81			1 6		
		VMP-9-11.5-020911	2/9/2011	10			<0 027	U		<0.0027	U		<0 0027	U		0 024	J		<0.00027	U		83			7		
		VMP-9-11.5-020911-DUP	2/9/2011	9.9			<0 021	U		<0.0021	U		<0 0021	U		0.0097	J		<0.00021	U		82			8.4		
		VMP-9-11.5-040611	4/6/2011	13			<0 059	U		<0.0059	U		<0 0059	U		0 035	J		0.0025			84			3 2		
		VMP-9-11.5-080211	8/2/2011	15			<0 028	U		0.0002	J		<0 0028	U		0 013	J		3			80			1.4		
		VMP-9-11.5-110411	11/4/2011	8.2			<0 018	U		<0.0018	U		<0 0018	U		0.0058	J		0.000029	J		80			12		
		VMP-9-11.5-012612	1/26/2012	14			<0 016	U		<0.0016	U		<0 0016	U		0 048	J		0 00003	J		83			2 8		
		VMP-9-11.5-041112	4/11/2012	1			<0 023	U		<0.0023	U		<0 0023	U		0.43			<0.00023	U		80			19		
		VMP-9-11.5-071312	7/13/2012	1.4			<0 021	U		<0.0021	U		<0 0021	U		0.14			<0.00021	U		79			19		
		VMP-9-11.5-101012	10/10/2012	0.43			<0 036	U		<0.0036	U		<0 0036	U		0.24			0.000051	J		79			20		
	25 5 ft	VMP-9-25.5-082610	8/26/2010	14			<0 024	U		0 00042	J		<0 0024	U		0 012	J	J	4 3			80			1.7		
		VMP-9-25.5-082610-DUP	8/26/2010	14			<0 026	U		0.0004	J		<0 0026	U		0.04	J	J	4 3			80			1 5		
		VMP-9-25.5-111910	11/19/2010	15			<0 028	U		0.0002	J		<0 0028	U		<0.14	U		3			80			1 6		
		VMP-9-25.5-020911	2/9/2011	15			<0 025	U		<0.0025	U		<0 0025	U		0 011	J		0.98			83			1 3		
		VMP-9-25.5-040811	4/8/2011	12			<0 026	U		<0.0026	U		<0 0026	U		9 2			0.64			75			3 3		
		VMP-9-25.5-080211	8/2/2011	14			<0 028	U		0 00024	J		<0 0028	U		0 012	J		3 5			81			1 5		
		VMP-9-25.5-110711	11/7/2011	16			<0 019	U		0.000059	J		<0 0019	U		0.0034	J		1.1			81			1 9		
		VMP-9-25.5-110711-DUP	11/7/2011	15			<0 016	U		0.000055	J		<0 0016	U		0.0058	J		1			82			1 6		
		VMP-9-25.5-012612	1/26/2012	15			<0 016	U		<0.0016	U		<0 0016	U		<0.08	U		0.43			83			1 5		
		VMP-9-25.5-041112	4/11/2012	3.2			<0 023	U		<0.0023	U		<0 0023	U		0 082	J		<0.00023	U		80			17		
		VMP-9-25.5-071312	7/13/2012	3			<0 026	U		<0.0026	U		<0 0026	U		0 088	J		<0.00026	U		78			19		
		VMP-9-25.5-071312-Dup	7/13/2012	3			<0 026	U		<0.0026	U		<0 0026	U		0 076	J		<0.00026	U		78			19		
		VMP-9-25.5-101012	10/10/2012	1.6			<0 026	U		<0.0026	U		<0 0026	U		0 033			<0.00026	U		79			19		
	38 5 ft	VMP-9-38.5-020911	2/9/2011	16			<0 021	U		0 00011	J		<0 0021	U		<0.1	U		1.4			81			1 5		
		VMP-9-38.5-040811	4/8/2011	15			<0 028	U		<0.0028	U		<0 0028	U		0.11	J		1.1			82			1 6		
		VMP-9-38.5-012612	1/26/2012	15			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.47			83			1.7		
		VMP-9-38.5-041112	4/11/2012	7.8			<0 021	U		<0.0021	U		<0 0021	U		0 036	J		0 00094			78			14		
		VMP-9-38.5-071312	7/13/2012	5.5			<0 028	U		<0.0028	U		<0 0028	U		0.1	J		0 00012	J		78			16		
		VMP-9-38.5-101012	10/10/2012	5.9			<0 028	U		<0.0028	U		<0 0028	U		0 024	J		0.0054			80			14		
VMP-10	5 ft	VMP-10-5-090710	9/7/2010	5.2			<0 026	U		<0.0026	U		<0 0026	U		<0.13	J	U	0 00017	J		80			15		
		VMP-10-5-111810	11/17/2010	3.2			<0 024	U		<0.0024	U		<0 0024	U		0 024	J		<0.00024	U		79			18		
		VMP-10-5-021011	2/10/2011	3.8			<0 024	U		<0.0024	U		<0 0024	U		0.0094	J		0 00014	J		79			17		
		VMP-10-5-040511	4/5/2011	0 38			<0 022	U		<0.0022	U		<0 0022	U		0.29			0 00017	J		78			21		
		VMP-10-5-07/2911	7/29/2011	3.8			<0 052	U		<0.0052	U		<0 0052	U		0.16	J		<0.00052	U		79			17		
		VMP-10-5-110411	11/4/2011	2.5			<0 014	U		<0.0014	U		<0 0014	U		0 042	J		0.000056	J		78			19		
		VMP-10-5-012512	1/26/2012	3.3			<0 018	U		<0.0018	U		<0 0018	U		0 046	J		<0.00018	U		79			18		
		VMP-10-5-041212	4/12/2012	2.8			<0 019	U		<0.0019	U		<0 0019	U		0 071	J		0.000025	J		79			18		
		VMP-10-5-071312	7/13/2012	2.2			<0 026	U		<0.0026	U		<0 0026	U		0 059	J		0 00003	J		79			19		
		VMP-10-5-101612	10/16/2012	2.1			<0.03	U		<0 003	U		<0 003	U		0 047	J		0 00032			80			18		
	10 ft	VMP-10-10-090710	9/7/2010	7.6			<0 026	U		<0.0026	U		<0 0026	U		<0.13	J	U	0 00013	J		79			13		
		VMP-10-10-111810	11/17/2010	5.3			<0 026	U		<0.0026	U		<0 0026	U		0.0082	J		<0.00026	U		79			16		
		VMP-10-10-021111	2/11/2011	4			<0.02	U		<0 002	U		<0 002	U		0 016	J		0 00009	J		79			17		
		VMP-10-10-040611	4/6/2011	2.2			<0 026	U		<0.0026	U		<0 0026	U		0 026	J		0.000048	J		79			19		
		VMP-10-10-072911	7/29/2011	5.5			<0 028	U		<0.0028	U		<0 0028	U		0 6			<0.00028	U		80			14		
		VMP-10-10-110411	11/4/2011	4.2			<0 018	U		<0.0018	U		<0 0018	U		0 016	J		<0.00018	U		80			16		
		VMP-10-10-110411-DUP	11/4/2011	4.3			<0 018	U		<0.0018	U		<0 0018	U		0 016	J		<0.00018	U		80			16		
		VMP-10-10-012512	1/26/2012	4			<0 018	U		<0.0018	U		<0 0018	U		<0 088	U		<0.00018	U		79			17		
		VMP-10-10-012512-DUP	1/26/2012	4.1			<0 018	U		<0.0018	U		<0 0018	U		<0 092	U		0 00011	J		79			17		
		VMP-10-10-041112	4/11/2012	3.9			<0 024	U		<0.0024	U		<0 0024	U		0 067	J		0.000046	J		80			16		
		VMP-10-10-071312	7/13/2012	3.2			<0 025	U		<0.0025	U		<0 0025	U		0.11	J		<0 00025	U		80			17		
		VMP-10-10-101612	10/16/2012	2.7			<0 032	U		<0.0032	U		<0 0032	U		0 049	J		0 00026	J		80			17		
	20 ft	VMP-10-20-090710	9/7/2010	0 22			<0 056	U		<0.0056	U		<0 0056	U		<0.28	J	U	0 00019	J		80			20		
		VMP-10-20-090710-DUP	9/7/2010	0.16			<0 052	U		<0.0052	U		<0 0052	U		0 076	J		0 00025	J		74			26		
		VMP-10-20-111810	11/17/2010	8.3			<0 049	U		<0.0049	U		<0 0049	U		0.0098	J		<0 00049	U		79			13		
		VMP-10-20-111810-Dup	11/17/2010	7.4			<0 025	U		<0.0025	U		<0 0025	U		0.0043	J		0.000045	J		78			14		
		VMP-10-20-021111	2/11/2011	6.4			<0 051	U		<0.0051	U		<0 0051	U		0 012	J		<0 00051	U		78			16		
		VMP-10-20-040611	4/6/2011	0 58			<0 029	U		<0.0029	U		<0 0029	U		0 028	J		0 00019	J		78			21		
		VMP-10-20-072911	7/29/2011	7.1			<0 027	U		<0.0027	U		<0 0027	U		<0.14	U		<0 00027	U		80			13		
		VMP-10-20-110411	11/4/2011	4.6			<0 018	U		<0.0018	U		<0 0018	U		0 062	J		0.000073	J		79			16		
		VMP-10-20-012612	1/26/2012	5.6			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.000016	J		79			15		
		VMP-10-20-041212	4/12/2012	5.1			<0 019	U		<0.0019	U		<0 0019	U		0 065	J		0.000037	J		80			15		
		VMP-10-20-071612	7/16/2012	5			<0 024	U		<0.0024	U		<0 0024	U		0 09	J		<0 00024	U		79			16		
		VMP-10-20-101612	10/16/2012	4.3			<0 032	U		<0.0032	U		<0 0032	U		0 057	J		0.000026	J		81			15		
	30 ft	VMP-10-30-041212	4/12/2012	6.1			<0 032	U		<0.0032	U		<0 0032	U		0 085	J		0 00092			80			14		
		VMP-10-30-071612	7/16/2012	5.9			<0 023	U		<0.0023	U		<0 0023	U		0 053	J		0 00026			79			15		
		VMP-10-30-101612	10/16/2012	5.1			<0.03	U		<0 003	U		<0 003	U		0 04	J		0.000095	J		80			15		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-11	5 ft	VMP-11-5-090710	9/7/2010	8			<0 025	U		<0.0025	U		<0 0025	U		<0.12	J	U	0 00072			80			12		
		VMP-11-5-112210	11/22/2010	10			<0 026	U		<0.0026	U		<0 0026	U		0 016	J		0.000096	J		80			9.4		
		VMP-11-5-021111	2/11/2011	8.5			<0 023	U		<0.0023	U		<0 0023	U		0 018	J		0 00004	J		80			11		
		VMP-11-5-040611	4/6/2011	8			<0 027	U		<0.0027	U		<0 0027	U		0 022	J		0 002			80			12		
		VMP-11-5-080711	8/7/2011	7.1			<0.03	U		<0 003	U		<0.003	U		0.01	J		<0 0003	U		79			14		
		VMP-11-5-111111	11/11/2011	11			<0 018	U		<0.0018	U		<0 0018	U		0.65			0.000078	J		80			8 3		
		VMP-11-5-012612	1/26/2012	9.6			<0 018	U		<0.0018	U		<0 0018	U		<0.088	U		0.000049	J		81			9 5		
		VMP-11-5-041912	4/19/2012	3.4			<0 026	U		<0.0026	U		<0 0026	U		0 052	J		0 00024	J		73			24		
		VMP-11-5-071912	7/16/2012	2.4			<0 034	U		<0.0034	U		<0 0034	U		0 075	J		0.000057	J		78			19		
		VMP-11-5-101612	10/16/2012	4.2			<0 028	U		<0.0028	U		<0 0028	U		0 028	J		0.000053	J		81			15		
	8 ft	VMP-11-8-080910	9/8/2010	7.8			<0 053	U		<0.0053	U		<0 0053	U		0 018	J		0.0011			76			16		
		VMP-11-8-112210	11/22/2010	11			<0 026	U		<0.0026	U		<0 0026	U		0 031	J		<0.00026	U		80			8 8		
		VMP-11-8-021111	2/11/2011	9.4			<0 025	U		<0.0025	U		<0 0025	U		<0.12	U		<0.00025	U		81			9.7		
		VMP-11-8-021111-DUP	2/11/2011	9.4			<0 024	U		<0.0024	U		<0 0024	U		0 014	J		<0.00024	U		81			9 9		
		VMP-11-8-040611	4/6/2011	8.2			<0 028	U		<0.0028	U		<0 0028	U		0 017	J		0 00007	J		81			11		
		VMP-11-8-040611-DUP	4/6/2011	8.1			<0 029	U		<0.0029	U		<0 0029	U		0 034	J		0.000058	J		80			12		
		VMP-11-8-080711	8/7/2011	10			<0.03	U		<0 003	U		<0 003	U		0 015	J		<0 0003	U		81			9		
		VMP-11-8-111411	11/14/2011	9.7			<0 018	U		<0.0018	U		<0 0018	U		0 013	J		0.000055	J		80			9.7		
		VMP-11-8-012612	1/26/2012	10			<0 017	U		<0.0017	U		<0 0017	U		0 025	J		0.000023	J		81			9.1		
		VMP-11-8-041912	4/19/2012	4.6			<0 025	U		<0.0025	U		<0 0025	U		0.11	J		0.000048	J		78			17		
		VMP-11-8-072012	7/20/2012	3.7			<0.02	U		<0 002	U		<0 002	U		0 056	J		0.000055	J		79			17		
		VMP-11-8-101612	10/16/2012	4			<0 029	U		<0.0029	U		<0 0029	U		0 037	J		0.000059	J		80			16		
		VMP-11-8-101612-Dup	10/16/2012	4.2			<0 029	U		<0.0029	U		<0 0029	U		0.04	J		0.000044	J		80			16		
	29 ft	VMP-11-29-090810	9/8/2010	14			<0 026	U		<0.0026	U		<0 0026	U		1			0 048			83			1 6		
		VMP-11-29-112210	11/22/2010	14			<0 028	U		<0.0028	U		<0 0028	U		0.0073	J		0 071			84			1 9		
		VMP-11-29-112210-Dup	11/22/2010	14			<0 028	U		<0.0028	U		<0 0028	U		0 013	J		0 071			84			1 5		
		VMP-11-29-021411	2/14/2011	14			<0 025	U		<0.0025	U		<0 0025	U		0 013	J		0 00048			82			3 6		
		VMP-11-29-040611	4/6/2011	15			<0 028	U		<0.0028	U		<0 0028	U		0 031	J		0 00062			83			1 8		
		VMP-11-29-082511	8/25/2011	14			<0 028	U		<0.0028	U		<0 0028	U		0.0056	J		0.0025			84			2		
		VMP-11-29-082511-Dup	8/25/2011	14			<0 028	U		<0.0028	U		<0 0028	U		0.0044	J		0 00013	J		84			2		
		VMP-11-29-111411	11/14/2011	14			<0 018	U		<0.0018	U		<0 0018	U		0.0064	J		0 00017	J		83			2 8		
		VMP-11-29-012612	1/26/2012	16			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0 00022			82			1 9		
		VMP-11-29-042712	4/27/2012	10			<0 024	U		<0.0024	U		<0 0024	U		0 011	J		0 00004	J		81			8.7		
		VMP-11-29-072012	7/23/2012	7.2			<0 018	U		<0.0018	U		<0 0018	U		0 059	J		0.000098	J		80			13		
		VMP-11-29-101612	10/16/2012	9.2			<0.03	U		<0 003	U		<0 003	U		0 093	J		0.000089	J		78			13		
	38 ft	VMP-11-38-042312	4/23/2012	17			<0 018	U		<0.0018	U		<0 0018	U		0 017	J		0.0066			82			1 5		
		VMP-11-38-042312-Dup	4/23/2012	17			<0 018	U		<0.0018	U		<0 0018	U		0.02	J		0.0067			81			1.7		
		VMP-11-38-072312	7/23/2012	16			<0.02	U		<0 002	U		<0 002	U		0 084	J		0.0037			82			1 5		
		VMP-11-38-101612	10/16/2012	13			<0.03	U		<0 003	U		<0 003	U		0.1	J		0.0023			80			7 2		
VMP-12	5 ft	VMP-12-5-090310	9/3/2010	12			<0 027	U		0.0012	J		<0 0027	U		<0.13	U		36			49			0.97		
		VMP-12-5-120310	12/3/2010	13			<0 021	U		0 001	J		<0 0021	U		0.0086	J		36			47			1 3		
		VMP-12-5-021511	2/15/2011	7.6			<0 024	U		0 00044	J		<0 0024	U		0 021	J		18			72			1 6		
		VMP-12-5-041911	4/19/2011	7.4			<0 029	U		0 00088	J		<0 0029	U		0 023	J		31			59			1.4		
		VMP-12-5-080411	8/4/2011	12			<0 029	U		0 00068	J		<0 0029	U		0 062	J		24			61			2.1		
		VMP-12-5-111611	11/16/2011	7			<0 016	U		<0.0016	U		<0 0016	U		0.0056	J		0.0003			77			16		
		VMP-12-5-012412	1/24/2012	2.8			<0 018	U		<0.0018	U		<0 0018	U		1.4			0.0045			76			20		
		VMP-12-5-041912	4/19/2012	4			<0 024	U		<0.0024	U		<0 0024	U		0.57			0.000054	J		81			14		
		VMP-12-5-072612	7/26/2012	0.17			<0.02	U		<0 002	U		<0 002	U		0 2			0 00017	J		80			20		
		VMP-12-5-072612-Dup	7/26/2012	0.17			<0 018	U		<0.0018	U		<0 0018	U		0.13			0 00017	J		80			20		
		VMP-12-5-102412	10/24/2012	0.14			<0.03	U		<0 003	U		<0 003	U		0 028	J		0.0001	J		81			19		
	11 5 ft	VMP-12-11 5-090310	9/3/2010	13			<0 028	U		0.0011	J		<0 0028	U		<0.14	U		38			46			1.1		
		VMP-12-11 5-120310	12/3/2010	11			<0 021	U		0 00072	J		<0 0021	U		0 039	J		27			58			2 5		
		VMP-12-11 5-021511	2/15/2011	9.1			<0 027	U		0 00099	J		<0 0027	U		0 022	J		35			53			1 5		
		VMP-12-11 5-021511-DUP	2/15/2011	8.6			<0 023	U		0 00094	J		<0 0023	U		0.04	J		34			54			2 3		
		VMP-12-11 5-041911	4/19/2011	9.2			<0 026	U		0.0011	J		<0 0026	U		0 023	J		37			50			1 6		
		VMP-12-11 5-080411	8/4/2011	12			<0 028	U		0 00052	J		<0 0028	U		<0.14	U		21			64			1.7		
		VMP-12-11 5-111611	11/16/2011	7.7			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.16			80			12		
		VMP-12-11 5-012412	1/24/2012	9.6			<0 017	U		<0.0017	U		<0 0017	U		0 031	J		3 3			84			2.7		
		VMP-12-11 5-041912	4/19/2012	5.8			<0 026	U		<0.0026	U		<0 0026	U		0 073	J		1 3			80			13		
		VMP-12-11 5-082012	8/20/2012	0 22			<0.03	U		<0 003	U		<0 003	U		<0.15	U		0 00012	J		80			20		
		VMP-12-11 5-102612	10/26/2012	0.11			<0 029	U		<0.0029	U		<0 0029	U		0 038	J		0 00014	J		80			20		
	25 ft	VMP-12-25-090310	9/3/2010	13			<0 026	U		0.0012	J		<0 0026	U		<0.13	J	U	36			47			0.99		
		VMP-12-25-120310	12/3/2010	13			<0 022	U		0.000091	J		<0 0022	U		<0.11	U		4 8			80			1 5		
		VMP-12-25-021511	2/15/2011	13			<0 027	U		0 00089	J		<0 0027	U		0 026	J		32			52			1.4		
		VMP-12-25-041911	4/19/2011	13			<0 028	U		0 00097	J		<0 0028	U		0 032	J		35			49			1.1		
		VMP-12-25-080411	8/4/2011	12			<0 026	U		0 001	J		<0 0026	U		0 013	J		35			49			2 2		
		VMP-12-25-111611	11/16/2011	12			<0 016	U		0 001	J		<0 0016	U		<0 078	U		36			49			1 5		
		VMP-12-25-012412	1/24/2012	12			<0 017	U		0 00086	J		<0 0017	U		0.0067	J		31			54			1 3		J
		VMP-12-25-012412-DUP	1/24/2012	12			<0 018	U		0 00085	J		<0 0018	U		0 043	J		30			55			1 8		J
		VMP-12-25-041912	4/19/2012	9.5			<0 018	U		0 00067	J		<0 0018	U		0 046	J		29			58			2 3		
		VMP-12-25-072712	7/27/2012	12			<0.02	U		0 00012	J		<0 002	U		0 037	J		4 8			81			1 9		
		VMP-12-25-072712-Dup	7/27/2012	12			<0.02	U		0.000088	J		<0 002	U		0 035	J		5			81			1 6		
		VMP-12-25-102512	10/25/2012	12			<0 029	U		<0.0029	U		<0 0029	U		0 055	J		0 92			85			1 8		
	39 ft	VMP-12-39-041911	4/19/2011	13			<0.03	U		0 0014	J		<0 003	U		0 014	J		42			42			1		
		VMP-12-39-012412	1/24/2012	12			<0 018	U		0 0017	J		<0 0018	U		<0 088	U		49			36			1.1		
		VMP-12-39-041912	4/19/2012	12			<0 018	U		0 0009	J		<0 0018	U		0 082	J		40			46			1		
		VMP-12-39-072612	7/26/2012	12			<0.02	U		0 0005	J		<0 002	U		0 034	J		21			65			1.4		
		VMP-12-39-102412	10/24/2012	14			<0 032	U		0 00078	J		<0 0032	U		0 035			12			72			1 6		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-13	5 ft	VMP 13-5-091310	9/13/2010	8.4			<0 026	U		<0.0026	U		<0 0026	U		<0.13	U		0 00088			84			7		
		VMP-13-5-120110	12/1/2010	6.1			<0 023	U		<0.0023	U		<0 0023	U		0 047	J		<0.00023	U		81			13		
		VMP-13-5-021811	2/18/2011	3.6			<0 073	U		<0.0073	U		<0 0073	U		0 017	J		0.0048			80			16		
		VMP-13-5-040511	4/5/2011	3.4			<0 055	U		<0.0055	U		<0 0055	U		0 079	J		<0.00055	U		81			16		
		VMP-13-5-080911	8/9/2011	9.1			<0.03	U		<0 003	U		<0 003	U		0.24			0.0095			84			6 5		
		VMP-13-5-080911-DUP	8/9/2011	6.2			<0 026	U		<0.0026	U		<0 0026	U		0.17			0.0061			83			11		
		VMP-13-5-111411	11/14/2011	6.2			<0 018	U		<0.0018	U		<0 0018	U		0.0074	J		0.000065	J		82			12		
		VMP-13-5-012712	1/27/2012	4.6			<0 016	U		<0.0016	U		<0 0016	U		0.0064	J		0.000092	J		81			14		
		VMP-13-5-042012	4/20/2012	3.4			<0 026	U		<0.0026	U		<0 0026	U		<0.13	U		0.000032	J		81			16		
		VMP-13-5-071912	7/19/2012	4.3			<0 024	U		<0.0024	U		<0 0024	U		0.14			0.000083	J		80			16		
		VMP-13-5-071912-Dup	7/19/2012	4.4			<0 024	U		<0.0024	U		<0 0024	U		0 032	J		0.000079	J		80			16		
		VMP-13-5-100912	10/9/2012	2.8			<0 037	U		<0.0037	U		<0 0037	U		0 034	J		0.000091	J		79			18		
	10 5 ft	VMP 13-10.5-091310	9/13/2010	11			<0 049	U		<0.0049	U		<0 0049	U		<0.24	U		0 068			86			3.4		
		VMP 13-10.5-091310-Dup	9/13/2010	11			<0 048	U		<0.0048	U		<0 0048	U		<0.24	U		0 076			85			3 6		
		VMP-13-10 5-120110	12/1/2010	8.6			<0 026	U		<0.0026	U		<0 0026	U		0 028	J		0 00032			82			8 8		
		VMP-13-10 5-120110-DUP	12/1/2010	8.6			<0 027	U		<0.0027	U		<0 0027	U		<0.14	U		0.0003			83			8.7		
		VMP-13-10 5-021811	2/18/2011	12			<0 027	U		0 00022	J		<0 0027	U		<0.13	U		1.1			84			2 5		
		VMP-13-10 5-021811-DUP	2/18/2011	12			<0 026	U		0 00023	J		<0 0026	U		0 021	J		1.1			85			1 9		
		VMP-13-10 5-040511-DUP	4/5/2011	5.9			<0 028	U		<0.0028	U		<0 0028	U		0 023	J		<0.00028	U		83			11		
		VMP-13-10 5-080911	8/9/2011	11			<0.03	U		0 00012	J		<0 003	U		0.0088	J		0.59			87			1.7		
		VMP-13-10 5-111411	11/14/2011	7			<0 018	U		<0.0018	U		<0 0018	U		0.0057	J		0.000084	J		83			10		
		VMP-13-10 5-012712	1/26/2012	5.8			<0 017	U		<0.0017	U		<0 0017	U		0.23			0.000062	J		82			12		
		VMP-13-10 5-012712-DUP	1/26/2012	5.9			<0 018	U		<0.0018	U		<0 0018	U		0.75			0.000064	J		81			12		
		VMP-13-10 5-042012	4/20/2012	4.2			<0 023	U		<0.0023	U		<0 0023	U		<0.11	U		0 00005	J		81			15		
		VMP-13-10 5-071912	7/19/2012	5.9			<0 024	U		<0.0024	U		<0 0024	U		0 045	J		0 00005	J		81			13		
		VMP-13-10 5-100912	10/9/2012	3.4			<0 025	U		<0.0025	U		<0 0025	U		<0.12	J	U	0.000085	J		78			18		
		VMP-13-10 5-100912-Dup	10/9/2012	3.6			<0 038	U		<0.0038	U		<0 0038	U		0 023	J		0.000066	J		79			17		
	21 5 ft	VMP 13-21.5-091310	9/13/2010	12			<0 024	U		0 00034	J		<0 0024	U		<0.12	U		2			83			2 5		
		VMP-13-21 5-120110	12/1/2010	13			<0 024	U		0 00037	J		<0 0024	U		0.02	J		1 8			83			1 8		
		VMP-13-21 5-021811	2/18/2011	12			<0 025	U		0 00026	J		<0 0025	U		0 027	J		1 2			85			1 9		
		VMP-13-21 5-040511	4/5/2011	7.5			<0 024	U		0.0002	J		<0 0024	U		0 029	J		0.88			83			8 2		
		VMP-13-21 5-080911	8/9/2011	11			<0.03	U		0 00038	J		<0 003	U		0.0062	J		1 9			85			1 6		
		VMP-13-21 5-111411	11/14/2011	11			<0 018	U		0 00026	J		<0 0018	U		0 005	J		1.1			86			1 5		
		VMP-13-21 5-111411-DUP	11/14/2011	11			<0 018	U		0 00025	J		<0 0018	U		0.0038	J		1.1			86			1 5		
		VMP-13-21 5-012712	1/27/2012	12			<0 016	U		0 00012	J		<0 0016	U		<0.08	U		0 5			85			2 8		
		VMP-13-21 5-042012	4/20/2012	10			<0 024	U		<0.0024	U		<0 0024	U		<0.12	U		0 074			82			8 3		
		VMP-13-21 5-071912	7/19/2012	10			<0 025	U		<0.0025	U		<0 0025	U		0 042	J		0.0027			82			7.7		
		VMP-13-21 5-100912	10/9/2012	15			<0.03	U		<0 003	U		<0 003	U		<0 051		U	0.0015			83			2		
	29 5 ft	VMP-13-29 5-021811	2/18/2011	13			<0 022	U		0 00052	J		<0 0022	U		0.01	J		1 8			83			1 6		
		VMP-13-29 5-040511	4/5/2011	12			<0 022	U		0 00047	J		<0 0022	U		0.0083	J		2			84			1.7		
		VMP-13-29 5-013012	1/30/2012	12			<0 017	U		0.0002	J		<0 0017	U		0 023	J		0.84			85			2		
		VMP-13-29 5-042012	4/20/2012	12			<0 017	U		0 00014	J		<0 0017	U		0.0058	J		0.4			86			1 5		
		VMP-13-29 5-071912	7/19/2012	13			<0 019	U		0.000073	J		<0 0019	U		0 084	J		0.18			85			1.7		
		VMP-13-29 5-100912	10/9/2012	14			<0.03	U		0.000076	J		<0 003	U		0 042	J		0.19			84			1 5		
VMP-14	5 ft	VMP 14-5-091010	9/10/2010	19			<0 025	U		0.0063			<0 0025	U		0.01	J		10			69			1 8		
		VMP-14-5-120110	12/1/2010	2.6			<0 024	U		<0.0024	U		<0 0024	U		0 025	J		0 00007	J		85			12		
		VMP-14-5-021711	2/17/2011	1.9			<0 026	U		<0.0026	U		<0 0026	U		0 031	J		0 016			93			5		
		VMP-14-5-040511	4/5/2011	2.6			<0 027	U		<0.0027	U		<0 0027	U		0 025	J		0.0022			78			19		
		VMP-14-5-080811	8/8/2011	16			<0 028	U		0.0081			<0 0028	U		0.0098	J		19			62			1 8		
		VMP-14-5-111411	11/14/2011	8.2			<0 018	U		<0.0018	U		<0 0018	U		1 5			0.000018	J		76			14		
		VMP-14-5-042012	4/20/2012	2.9			<0 025	U		<0.0025	U		<0 0025	U		0 026	J		<0.00025	U		79			18		
		VMP-14-5-072312	7/23/2012	8.5			<0 021	U		<0.0021	U		<0 0021	U		0 039	J		<0.00021	U		80			11		
		VMP-14-5-101012	10/10/2012	1.2			<0 029	U		<0.0029	U		<0 0029	U		0.14			0.000042	J		78			21		
	11 5 ft	VMP 14-11.5-091010	9/10/2010	16			<0 023	U		0 01			<0 0023	U		0.0087	J		20			62			1.1		
		VMP-14-11 5-120110	12/2/2010	3.6			<0 025	U		0 001	J		<0 0025	U		0 029	J		2 8			92			1 6		
		VMP-14-11 5-120110-DUP	12/2/2010	3.6			<0 024	U		0 001	J		<0 0024	U		0.0068	J		2 8			92			1 6		
		VMP-14-11 5-021711	2/17/2011	3.6			<0 028	U		<0.0028	U		<0 0028	U		0.0073	J		0.15			93			3		
		VMP-14-11 5-021711-DUP	2/17/2011	3.7			<0 028	U		<0.0028	U		<0 0028	U		0 039	J		0.16			93			2 8		
		VMP-14-11 5-040511	4/5/2011	11			<0 027	U		<0.0027	U		<0 0027	U		0 028	J		0.0024			79			10		
		VMP-14-11 5-080811	8/8/2011	18			<0 028	U		0.0021	J		<0 0028	U		0 01	J		4 5			76			1 6		
		VMP-14-11 5-111511	11/15/2011	14			<0 017	U		0 001	J		<0 0017	U		0 25			3.4			81			1 6		
		VMP-14-11 5-012612	1/26/2012	4.2			<0 018	U		0 00082	J		<0 0018	U		<0 088	U		4 5			88			3 3		
		VMP-14-11 5-042312	4/23/2012	4.5			<0 024	U		<0.0024	U		<0 0024	U		0.11	J		0.0001	J		85			10		
		VMP-14-11 5-042312-Dup	4/23/2012	4.1			<0.03	U		<0 003	U		<0 003	U		0 085	J		0 00011	J		84			12		
		VMP-14-11 5-072512	7/25/2012	15			<0 019	U		0 00035	J		<0 0019	U		0 032	J		2			82			1.4		
		VMP-14-11 5-101012	10/10/2012	6.7			<0 028	U		<0.0028	U		<0 0028	U		<0.14	J	U	0.000072	J		74			19		
	20 ft	VMP 14-20-091010	9/10/2010	17			<0 023	U		0 012			<0 0023	U		<0.12	U		22			57			0.97		
		VMP 14-20-091010-Dup	9/10/2010	17			<0 024	U		0 011			<0 0024	U		<0.12	U		22			57			1.1		
		VMP-14-20-120110	12/2/2010	18			<0 024	U		0 0047			<0 0024	U		0.0053	J		19			59			1 2		
		VMP-14-20-021811	2/18/2011	16			<0 027	U		0 0058			<0 0027	U		0 025	J		13			67			1.7		
		VMP-14-20-040511	4/5/2011	14			<0 053	U		0 006			<0 0053	U		0 028	J		12			68			4		
		VMP-14-20-080811	8/8/2011	16			<0 028	U		0 0088			<0 0028	U		1 2			21			58			1 8		
		VMP-14-20-111511	11/15/2011	18			<0 018	U		0 006			<0 0018	U		0 013	J		17			62			1 2		
		VMP-14-20-012612	1/26/2012	17			<0 018	U		0 0037			<0 0018	U		<0 088	U		12			68			1.4		
		VMP-14-20-042312	4/23/2012	15			<0 019	U		0 0021			<0 0019	U		0.0094	J		7.4			74			2.1		
		VMP-14-20-072512	7/25/2012	14			<0 018	U		0 0014	J		<0 0018	U		0 024	J		5.7			76			3		
		VMP-14-20-101612	10/16/2012	18			<0 028	U		0 00081	J		<0 0028	U		0 061	J		5.4			74			1.4		
	29 ft	VMP-14-29-021811	2/18/2011	16			<0 026	U		0 0062			<0 0026	U		0 61			13			66			1 6		
		VMP-14-29-040511	4/5/2011	16			<0 028	U		0 0058			<0 0028	U		0 025	J		13			67			1 3		
		VMP-14-29-012612	1/26/2012	17			<0 016	U		0 0039			<0 0016	U		<0 082	U		12			68			1 3		
		VMP-14-29-042312	4/23/2012	15			<0 018	U		0 0023			<0 0018	U		0.0071	J		7.4			75			1.4		
		VMP-14-29-072512	7/25/2012	15			<0 019	U		0 0017	J		<0 0019	U		0 045	J		6 2			76			1 2		
		VMP-14-29-101612	10/16/2012	17			<0 028	U		0 0012	J		<0 0028	U		0 041	J		5 5			75			1 6		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-15	5 ft	VMP 15-5-091410	9/14/2010	17			<0 025	U		<0.0025	U		<0 0025	U		<0.13	J	U	0 00012	J		80			3		
		VMP-15-5-113010	11/30/2010	15			<0 024	U		0 00077	J		<0 0024	U		0.04	J		1 3			82			1 5		
		VMP-15-5-021611	2/16/2011	10			<0 028	U		<0.0028	U		<0 0028	U		0 022	J		0 069			85			4 9		
		VMP-15-5-042011	4/20/2011	15			<0 026	U		<0.0026	U		<0 0026	U		0.04	J		0 056			83			1 9		
		VMP-15-5-080811	8/8/2011	14			<0 023	U		<0.0023	U		<0 0023	U		0 013	J		0 00011	J		78			7 6		
		VMP-15-5-111511	11/15/2011	11			<0 017	U		<0.0017	U		<0 0017	U		0.0082	J		0.000091	J		82			6 6		
		VMP-15-5-020112	2/1/2012	9.2			<0 017	U		<0.0017	U		<0 0017	U		<0.086	U		<0.00017	U		90			9 8		
		VMP-15-5-042412	4/24/2012	11			<0 023	U		<0.0023	U		<0 0023	U		0.02	J		0.0036			82			6 6		
		VMP-15-5-072512	7/25/2012	12			<0.02	U		<0 002	U		<0 002	U		<0.098	U		0.000068	J		78			10		
		VMP-15-5-102512	10/25/2012	8.5			<0.03	U		<0 003	U		<0 003	U		<0.15	U		0.000053	J		82			10		
	21 5 ft	VMP 15-21.5-091410	9/14/2010	17			<0 025	U		0 012			<0 0025	U		1			13			66			2 3		
		VMP-15-21 5-113010	11/30/2010	19			<0 024	U		0.0085			<0 0024	U		0.22			11			68			1 3		
		VMP-15-21 5-021611	2/16/2011	18			<0 027	U		0.0034			<0 0027	U		0.0097	J		5.4			75			1 6		
		VMP-15-21 5-042011	4/20/2011	18			<0 028	U		0.0055			<0 0028	U		0 022	J		8 3			72			1 5		
		VMP-15-21 5-080811	8/8/2011	19			<0 028	U		0 013			<0 0028	U		0 016	J		16			64			1 3		
		VMP-15-21 5-111511	11/15/2011	16			<0 017	U		0.0021			<0 0017	U		0.0053	J		3 9			78			1 6		
		VMP-15-21 5-020112	2/1/2012	15			<0 017	U		0.0013	J		<0 0017	U		<0 084	U		2 2			79			3 8		
		VMP-15-21 5-042412	4/24/2012	17			<0 018	U		0 00051	J		<0 0018	U		0.0094	J		1.1			80			1.7		
		VMP-15-21 5-072512	7/25/2012	16			<0 021	U		0 00076	J		<0 0021	U		0 011	J		1 6			81			1 5		
		VMP-15-21 5-102512	10/25/2012	16			<0.03	U		0.0006	J		<0 003	U		<0.15	U		1 3			81			1.4		
		VMP-15-21 5-102512-Dup	10/25/2012	15			<0 031	U		0 00063	J		<0 0031	U		<0.16	U		1.4			82			1 6		
	25 5 ft	VMP 15-25.5-091410	9/14/2010	7.1			<0 067	U		<0.0067	U		<0 0067	U		5 3			0 013			74			14		
		VMP-15-25 5-021611	2/16/2011	7.6			<0 026	U		0.0004	J		<0 0026	U		4 3			0 6			79			8 5		
		VMP-15-25 5-042011	4/20/2011	3.9			<0 028	U		<0.0028	U		<0 0028	U		9 9			0.0012			71			15		
		VMP-15-25 5-042011-DUP	4/20/2011	3.7			<0 026	U		<0.0026	U		<0 0026	U		9 5			0.0071			72			15		
		VMP-15-25 5-080811	8/8/2011	15			<0 028	U		<0.0028	U		<0 0028	U		3 6			0.0036			75			5 9		
		VMP-15-25 5-111511	11/15/2011	5			<0 017	U		<0.0017	U		<0 0017	U		4.1			0 012			78			13		
		VMP-15-25 5-073112	7/31/2012	7.1			<0 018	U		<0.0018	U		<0 0018	U		0 036	J		0 051			81			12		
		VMP-15-25 5-102512	10/25/2012	3.2			<0 037	U		<0.0037	U		<0 0037	U		0.62			0.0077			71	J		25	J	
	29 ft	VMP-15-29-073112	7/31/2012	10			<0.02	U		0 00038	J		<0 002	U		2 5			0.7			80			6 9		
		VMP-15-29-102512	10/25/2012	3.4			<0 031	U		<0.0031	U		<0 0031	U		1 6			0 015			79			16		
VMP-16	5 ft	VMP-16-5-090210	9/2/2010	18			<0 024	U		0.0014	J		<0 0024	U		0 032	J		43			38			1		
		VMP-16-5-112910	11/29/2010	12			<0 022	U		0.0008	J		<0 0022	U		0.1	J		32			48			7 3		
		VMP-16-5-021511	2/15/2011	15			<0 026	U		0 00093	J		<0 0026	U		0.03	J		43			40			1		
		VMP-16-5-042211	4/22/2011	17			<0 026	U		0 001	J		<0 0026	U		0.04	J		48			33			1.1		
		VMP-16-5-080511	8/5/2011	13			<0 028	U		0 00012	J		<0 0028	U		0.69			4 2			78			3 9		
		VMP-16-5-042512	4/25/2012	17			<0 019	U		0 00065	J		<0 0019	U		0.0089	J		24			57			1.1		
		VMP-16-5-073012	7/30/2012	20			<0 018	U		0 00023	J		<0 0018	U		<0.09	U		6 8			71			1 3		
		VMP-16-5-102512	10/25/2012	11			<0 028	U		<0.0028	U		<0 0028	U		<0.14	U		1.1			82			5 5		
	13 5 ft	VMP-16-13 5-090210	9/2/2010	19			<0 025	U		0.0014	J		<0 0025	U		<0.12	J	U	46			34			0.78		J
		VMP-16-13 5-090210-DUP	9/2/2010	18			<0 025	U		0.0014	J		<0 0025	U		<0.12	J	U	45			35			2		J
		VMP-16-13 5-112910	11/29/2010	17			<0 022	U		0.0012	J		<0 0022	U		0 011	J		50			31			0.84		
		VMP-16-13 5-021611	2/16/2011	15			<0 027	U		0 00087	J		<0 0027	U		0 013	J		37			46			1.1		
		VMP-16-13 5-021611-DUP	2/16/2011	14			<0 026	U		0 00084	J		<0 0026	U		0 039	J		36			49			1.1		
		VMP-16-13 5-042211	4/22/2011	16			<0 028	U		0 00099	J		<0 0028	U		0 064	J		48			33			0.93		
		VMP-16-13 5-080511	8/5/2011	8.4		J	<0 028	U	UJ	<0.0028	U	UJ	<0 0028	U	UJ	6.4		J	1.1		J	74		J	9 6		J
		VMP-16-13 5-042512	4/25/2012	16			<0 018	U		0 001	J		<0 0018	U		0.0078	J		46			36			1.4		
		VMP-16-13 5-073012	7/30/2012	18			<0 018	U		0 00063	J		<0 0018	U		<0 092	U		21			59			1.1		
		VMP-16-13 5-102512	10/25/2012	16			<0 028	U		0 00051	J		<0 0028	U		<0.14	U		16			68			1 3		
	19 ft	VMP-16-19-090210	9/2/2010	19			<0 025	U		0.0014	J		<0 0025	U		<0.12	U		51			28			0.73		
		VMP-16-19-112910	11/29/2010	17			<0 022	U		0.0012	J		<0 0022	U		0 014	J		51			29			1 5		
		VMP-16-19-021611	2/16/2011	14			<0 026	U		0.0009	J		<0 0026	U		0 016	J		40			44			1 3		
		VMP-16-19-042711	4/27/2011	16			<0 026	U		0 00071	J		<0 0026	U		3.4			33			46			1 2		
		VMP-16-19-042711-DUP	4/27/2011	15			<0 026	U		0 00071	J		<0 0026	U		3 6			31			48			1 9		
		VMP-16-19-042512	4/25/2012	16			<0 021	U		0 0011	J		<0 0021	U		0.0079	J		50			32			0.87		
		VMP-16-19-073012	7/30/2012	14			<0 016	U		0 00086	J		<0 0016	U		<0 079	U		32			49			4		
		VMP-16-19-102512	10/25/2012	16			<0 026	U		0 00096	J		<0 0026	U		<0.13	U		32			51			1		
	31 ft	VMP-16-31-090310	9/3/2010	0 09			<0 061	U		<0.0061	U		<0 0061	U		22			0 00046	J		62			16		
		VMP-16-31-112910	11/29/2010	17			<0 022	U		0 0012	J		<0 0022	U		0 034	J		51			29			1 2		
		VMP-16-31-042512	4/25/2012	16			<0 021	U		0 0011	J		<0 0021	U		0.0098	J		51			31			0.94		
		VMP-16-31-073012	7/30/2012	15			<0 018	U		0 0011	J		<0 0018	U		0 011	J		42			41			0.94		
		VMP-16-31-102512	10/25/2012	16			<0 033	U		0 001	J		<0 0033	U		<0.16	U		36			47			1.1		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-17	5 ft	VMP-17-5	6/21/2010	6.7			<0 029	U		<0.0029	U		<0.0029	U		<0.14	U		0 00014	J		81			12		
		VMP-17-5-DUP	6/21/2010	6.8			<0.03	U		<0 003	U		<0.003	U		<0.15	U		0 00018	J		81			12		
		VMP-17-5-090110	9/1/2010	7.8			<0 054	U		<0.0054	U		<0 0054	U		0 089	J		<0.00054	J	U	80			12		
		VMP-17-5-112210	11/22/2010	5			<0 027	U		<0.0027	U		<0 0027	U		0 011	J		<0.00027	U		79			16		
		VMP-17-5-020711	2/7/2011	2			<0 051	U		<0.0051	U		<0 0051	U		<0.25	U		0 00017	J		73			25		
		VMP-17-5-040611	4/6/2011	3.2			<0.03	U		<0 003	U		<0.003	U		0.02	J		<0 0003	U		79			18		
		VMP-17-5-080111	8/1/2011	6.2			<0 029	U		<0.0029	U		<0 0029	U		0 012	J		0.0018			81			13		
		VMP-17-5-110711	11/7/2011	3.4			<0 022	U		<0.0022	U		<0 0022	U		0.0044	J		0.000024	J		78			18		
		VMP-17-5-012612	1/26/2012	2.8			<0 018	U		<0.0018	U		<0 0018	U		<0.09	U		<0.00018	U		79			18		
		VMP-17-5-041112	4/11/2012	1.1			<0 023	U		<0.0023	U		<0 0023	U		0.02	J		0.000064	J		79			20		
		VMP-17-5-071112	7/11/2012	0.69			<0.02	U		<0 002	U		<0 002	U		0 044	J		0.000051	J		79			20		
		VMP-17-5-100912	10/9/2012	0.37			<0.03	U		<0 003	U		<0 003	U		0 089			0 00003	J		80			20		
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	7.7			<0 029	U		<0.0029	U		<0.0029	U		<0.14	U		0.000026	J		81			11		
		VMP-18-8.5-090710	9/7/2010	9.3			<0 026	U		<0.0026	U		<0 0026	U		0 021	J		0 00011	J		80			11		
		VMP-18-8.5-111910	11/19/2010	8.2			<0 022	U		<0.0022	U		<0 0022	U		0 015	J		0.000054	J		80			12		
		VMP-18-8.5-020711	2/7/2011	5.6			<0 047	U		<0.0047	U		<0 0047	U		<0.23	U		<0.00047	U		79			15		
		VMP-18-8.5-020711-DUP	2/7/2011	5.8			<0 023	U		<0.0023	U		<0 0023	U		0 029	J		<0.00023	U		80			14		
		VMP-18-8.5-040711	4/7/2011	6.4			<0 026	U		<0.0026	U		<0 0026	U		0 037	J		0.000047	J		80			14		
		VMP-18-8.5-072811	7/28/2011	8.2			<0 028	U		<0.0028	U		<0 0028	U		0.21			<0.00028	U		80			12		
		VMP-18-8.5-110711	11/7/2011	7			<0 031	U		<0.0031	U		<0 0031	U		0 088	J		0.0012			76			17		
		VMP-18-8.5-012312	1/23/2012	5.1			<0 018	U		<0.0018	U		<0 0018	U		0.01	J		0.000022	J		78			17		
		VMP-18-8.5-041012	4/10/2012	4.9			<0 026	U		<0.0026	U		<0 0026	U		0 039	J		0.000043	J		78			17		
		VMP-18-8.5-071212	7/12/2012	3.9			<0.02	U		<0 002	U		<0 002	U		0 025	J		0.000083	J		77			19		
		VMP-18-8.5-100912	10/9/2012	4.1			<0 026	U		<0.0026	U		<0 0026	U		<0 044		U	0.000084	J		77			19		
VMP-19	5 ft	VMP-19-5	6/18/2010	8.7			<0 027	U		<0.0027	U		<0.0027	U		0.03			<0.00027	U		79			12		
		VMP-19-5-090110	9/1/2010	10			<0 053	U		<0.0053	U		<0 0053	U		0 049	J		0 00099			81			9.1		
		VMP-19-5-111510	11/15/2010	8.5			<0 028	U		<0.0028	U		<0 0028	U		<0.14	U		<0.00028	U		80			12		
		VMP-19-5-020411	2/4/2011	5.8			<0 024	U		<0.0024	U		<0 0024	U		0 018	J		0 00014	J		79			15		
		VMP-19-5-040711	4/7/2011	5.8			<0 027	U		<0.0027	U		<0 0027	U		0 047	J		<0.00027	U		78			16		
		VMP-19-5-080911	8/9/2011	9.1			<0.03	U		<0 003	U		<0 003	U		0 012	J		<0 0003	U		80			11		
		VMP-19-5-080911-DUP	8/9/2011	8.7			<0 028	U		<0.0028	U		<0 0028	U		0.01	J		<0.00028	U		80			11		
		VMP-19-5-110811	11/8/2011	5.5			<0 025	U		<0.0025	U		<0 0025	U		<0.13	U		0.000045	J		78			16		
		VMP-19-5-012612	1/26/2012	4.6			<0 017	U		<0.0017	U		<0 0017	U		0 008	J		0.000058	J		78			17		
		VMP-19-5-041012	4/10/2012	1.6			<0 025	U		<0.0025	U		<0 0025	U		0 058	J		0.000046	J		78			20		
		VMP-19-5-071112	7/11/2012	1.2			<0 022	U		<0.0022	U		<0 0022	U		0.17			0.000071	J		79			20		
		VMP-19-5-100912	10/9/2012	0 51			<0.03	U		<0 003	U		<0 003	U		<0.04		U	0.000068	J		79			20		
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	9.3			<0 024	U		<0.0024	U		<0 0024	U		0 012	J		0 00017	J		83			7 9		
		VMP-20-5-041511	4/15/2011	6.9			<0 027	U		<0.0027	U		<0 0027	U		0 045	J		0.0014			83			9.7		
		VMP-20-5-072511	7/25/2011	14			<0 028	U		<0.0028	U		<0 0028	U		0 021	J		0.000058	J		78			7.7		
		VMP-20-5-110111	11/1/2011	7.6			<0 016	U		<0.0016	U		<0 0016	U		0 033	J		0.000032	J		78			14		
		VMP-20-5-012312	1/23/2012	4.4			<0 017	U		<0.0017	U		<0 0017	U		0.0064	J		0.0001	J		78			18		
		VMP-20-5-041012	4/10/2012	5.1			<0 022	U		<0.0022	U		<0 0022	U		0.32			0.000079	J		80			15		
		VMP-20-5-071112	7/11/2012	8.8			<0 018	U		<0.0018	U		<0 0018	U		7.1			0.000067	J		72			12		
		VMP-20-5-073112	7/31/2012	12			<0.02	U		<0 002	U		<0 002	U		0 014	J		0.000043	J		76			12		
		VMP-20-5-100412	10/4/2012	6			<0 029	U		<0.0029	U		<0 0029	U		0 063	J		0.000051	J		79			15		
	10 ft	VMP-20-10-031411	3/14/2011	6.8			<0 024	U		<0.0024	U		<0 0024	U		<0.12	U		0.000065	J		83			10		
		VMP-20-10-041511	4/15/2011	7.3			<0 024	U		<0.0024	U		<0 0024	U		0 039	J		0.0001	J		83			9 3		
		VMP-20-10-072511	7/25/2011	8.1			<0 026	U		<0.0026	U		<0 0026	U		0.01	J		0 00021	J		84			7 8		
		VMP-20-10-110111	11/1/2011	8.3			<0 017	U		<0.0017	U		<0 0017	U		0 025	J		0.000063	J		80			12		
		VMP-20-10-012312	1/23/2012	5.7			<0 016	U		<0.0016	U		<0 0016	U		0 097			0.000051	J		79			15		
		VMP-20-10-041012	4/10/2012	5.9			<0 023	U		<0.0023	U		<0 0023	U		0 075	J		0.000032	J		81			13		
		VMP-20-10-071112	7/11/2012	8.5			<0.02	U		<0 002	U		<0 002	U		0 034	J		0.000028	J		78			13		
		VMP-20-10-100412	10/4/2012	8.3			<0 027	U		<0.0027	U		<0 0027	U		0 055	J		0.000037	J		79			13		
	25 ft	VMP-20-25-031411	3/14/2011	9.4			<0 024	U		<0.0024	U		<0 0024	U		0.0059	J		<0 00024	U		87			3 2		
		VMP-20-25-041511	4/15/2011	9.8			<0 028	U		<0.0028	U		<0 0028	U		0 042	J		<0 00028	U		88			2 6		
		VMP-20-25-072611	7/26/2011	8.5			<0 026	U		0 00011	J		<0 0026	U		0 01	J		0.23			89			1 8		
		VMP-20-25-110511	11/5/2011	9.1			<0 017	U		<0.0017	U		<0 0017	U		0.0033	J		<0 00017	U		88			2 9		
		VMP-20-25-012312	1/23/2012	7.7			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0 00002	J		84			8.1		
		VMP-20-25-041012	4/10/2012	7.5			<0 023	U		<0.0023	U		<0 0023	U		0 044	J		<0 00023	U		84			8.7		
		VMP-20-25-041012-Dup	4/10/2012	7.6			<0 024	U		<0.0024	U		<0 0024	U		0 042	J		<0 00024	U		84			8 6		
		VMP-20-25-071112	7/11/2012	7.1			<0.02	U		<0 002	U		<0 002	U		0 052	J		<0 0002	U		82			11		
		VMP-20-25-100412	10/4/2012	7			<0.03	U		<0 003	U		<0 003	U		0 056	J		<0 0003	U		80			13		
	39 5 ft	VMP-20-39 5-100412	10/4/2012	9.6			<0 029	U		<0.0029	U		<0 0029	U		0 084	J		0.12			89			1.4		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	5.2			<0 023	U		0 00039	J		<0 0023	U		0.01	J		0.91			84			9 2		
		VMP-21-5-020911-DUP	2/9/2011	5.3			<0 024	U		0 00045	J		<0 0024	U		<0.12	U		0.91			84			9 2		
		VMP-21-5-041311	4/13/2011	2			<0 026	U		<0.0026	U		<0 0026	U		0.16			0 00056			81			17		
		VMP-21-5-072511	7/25/2011	14			<0.07	U		<0 007	U		<0.007	U		0 018	J		0 00029	J		76			10		
		VMP-21-5-110111	11/1/2011	4.1			<0 017	U		<0.0017	U		<0 0017	U		0.1			0.000034	J		79			17		
		VMP-21-5-012312	1/23/2012	1.4			<0 018	U		<0.0018	U		<0 0018	U		<0.088	U		0.000039	J		78			21		
		VMP-21-5-012312-DUP	1/23/2012	1.4			<0 016	U		<0.0016	U		<0 0016	U		<0.08	U		0.000033	J		78			21		
		VMP-21-5-042412	4/24/2012	3.4			<0 018	U		<0.0018	U		<0 0018	U		0 033	J		0 00045			80			17		
		VMP-21-5-071012	7/10/2012	8.2			<0 021	U		<0.0021	U		<0 0021	U		0 051	J		0 00011	J		78			14		
		VMP-21-5-100412	10/4/2012	4.1			<0 031	U		<0.0031	U		<0 0031	U		0 014	J		0.000039	J		79			17		
	10 ft	VMP-21-10-021011	2/10/2011	6.4			<0 025	U		0 00019	J		<0 0025	U		0 3			0.41			83			9.7		
		VMP-21-10-041311	4/13/2011	7.2			<0 026	U		<0.0026	U		<0 0026	U		0 021	J		0 00032			83			9 6		
		VMP-21-10-072511	7/25/2011	6			<0.12	U		<0 012	U		<0 012	U		<0.59	U		0 00021	J		68			26		
		VMP-21-10-110111	11/1/2011	7.2			<0 017	U		<0.0017	U		<0 0017	U		0 023	J		0.000031	J		79			14		
		VMP-21-10-012312	1/23/2012	4.7			<0 018	U		<0.0018	U		<0 0018	U		<0 088	U		0.000031	J		78			17		
		VMP-21-10-040912	4/9/2012	2.7			<0 023	U		<0.0023	U		<0 0023	U		0 034	J		0.000029	J		85			12		
		VMP-21-10-071012	7/10/2012	6.4			<0.02	U		<0 002	U		<0 002	U		0.13			0.000029	J		79			14		
		VMP-21-10-100412	10/4/2012	6.6			<0 028	U		<0.0028	U		<0 0028	U		0 017	J		0.000019	J		79			14		
	25 ft	VMP-21-25-021011	2/10/2011	6.4			<0 023	U		0.0017	J		<0 0023	U		0.0092	J		3 6			87			1 5		
		VMP-21-25-041411	4/14/2011	6.1			<0 026	U		0.0018	J		<0 0026	U		0 023	J		3 9			86			1.7		
		VMP-21-25-041411-DUP	4/14/2011	6.1			<0 026	U		0.0018	J		<0 0026	U		0 063	J		3 9			86			1 9		
		VMP-21-25-072611	7/26/2011	5.6			<0 026	U		0 00088	J		<0 0026	U		0.22			2 3			89			1.7		
		VMP-21-25-110511	11/5/2011	9.1			<0 017	U		0.000086	J		<0 0017	U		0.0034	J		0.24			89			2		
		VMP-21-25-012412	1/24/2012	12			<0 016	U		<0.0016	U		<0 0016	U		0 081			0.0098			86			2 2		
		VMP-21-25-040912	4/9/2012	12			<0.03	U		<0 003	U		<0 003	U		0 076	J		0 00044			85			2 9		
		VMP-21-25-071112	7/11/2012	10			<0 018	U		<0.0018	U		<0 0018	U		0 037	J		0.000086	J		84			6.4		
		VMP-21-25-100412	10/4/2012	8.9			<0 029	U		<0.0029	U		<0 0029	U		0 037	J		0.000058	J		81			10		
	33 ft	VMP-21-33-021011	2/10/2011	5.8			<0 023	U		0.0015	J		<0 0023	U		0.15			3.7			86			1 9		
		VMP-21-33-041411	4/14/2011	6			<0 027	U		0.0018	J		<0 0027	U		0 026	J		4			86			1 6		
		VMP-21-33-110511	11/5/2011	7			<0 019	U		<0.0019	U		<0 0019	U		0 003	J		0 2			91			1 9		
		VMP-21-33-012412	1/24/2012	11			<0 016	U		<0.0016	U		<0 0016	U		<0 082	U		0 046			86			2 5		
		VMP-21-33-042412	4/24/2012	12			<0 029	U		<0.0029	U		<0 0029	U		<0.14	U		0.0017			85			2 6		
		VMP-21-33-071112	7/11/2012	12			<0.02	U		<0 002	U		<0 002	U		0 056	J		0 00016	J		85			2 6		
		VMP-21-33-100412	10/4/2012	10			<0 028	U		<0.0028	U		<0 0028	U		0 019	J		0.000088	J		83			7		
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	8.4			<0 026	U		<0.0026	U		<0 0026	U		0.06	J		0.0078			84			8		
		VMP-22-5-041811	4/18/2011	7.1			<0 025	U		<0.0025	U		<0 0025	U		0 092	J		<0.00025	U		83			9 9		
		VMP-22-5-072611	7/26/2011	7.4			<0 055	U		<0.0055	U		<0 0055	U		0 015	J		<0.00055	U		80			12		
		VMP-22-5-110111	11/1/2011	2.6			<0 017	U		<0.0017	U		<0 0017	U		0 013	J		0 00004	J		79			18		
		VMP-22-5-012412	1/24/2012	0.7			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.000062	J		79			20		
		VMP-22-5-040912	4/9/2012	0 81			<0 032	U		<0.0032	U		<0 0032	U		0 077	J		0.000038	J		80			19		
		VMP-22-5-070912	7/9/2012	3			<0 022	U		<0.0022	U		<0 0022	U		0.14			0 00011	J		78			19		
		VMP-22-5-100312	10/3/2012	1			<0 025	U		<0.0025	U		<0 0025	U		1 5			0.000072	J		78			19		
		VMP-22-5-100312-Dup	10/3/2012	0.9			<0 023	U		<0.0023	U		<0 0023	U		0.45			0.000098	J		79			20		
	10 ft	VMP-22-10-021111	2/11/2011	10			<0 024	U		<0.0024	U		<0 0024	U		0 031	J		0.0034			84			5 5		
		VMP-22-10-041811	4/18/2011	8.9			<0 026	U		<0.0026	U		<0 0026	U		0 044	J		<0 00026	U		82			9 3		
		VMP-22-10-072611	7/26/2011	10			<0.03	U		<0 003	U		<0 003	U		<0.15	U		0 00016	J		85			4 9		
		VMP-22-10-072611-DUP	7/26/2011	10			<0 036	U		<0.0036	U		<0 0036	U		<0.18	U		0 00015	J		85			5		
		VMP-22-10-110211	11/2/2011	5.3			<0 017	U		<0.0017	U		<0 0017	U		0 015	J		<0 00017	U		79			16		
		VMP-22-10-012412	1/24/2012	2.2			<0 018	U		<0.0018	U		<0 0018	U		0.0065	J		0.000016	J		77			21		
		VMP-22-10-040912	4/9/2012	1.2			<0 033	U		<0.0033	U		<0 0033	U		0.1	J		0.000046	J		78			20		
		VMP-22-10-070912	7/9/2012	3.4			<0 022	U		<0.0022	U		<0 0022	U		0 044	J		0.000027	J		78			18		
		VMP-22-10-070912-Dup	7/9/2012	3.5			<0 021	U		<0.0021	U		<0 0021	U		0 043	J		0.000029	J		78			18		
		VMP-22-10-100312	10/3/2012	1.5			<0 024	U		<0.0024	U		<0 0024	U		0 047	J		0.000044	J		80			19		
	18 ft	VMP-22-18-021111	2/11/2011	11			<0 026	U		0 0008	J		<0 0026	U		0 014	J		1 5			85			1.7		
		VMP-22-18-041811	4/18/2011	11			<0 027	U		0 0007	J		<0 0027	U		0 027	J		1 5			86			1 6		
		VMP-22-18-072611	7/26/2011	10			<0 056	U		0 00046	J		<0 0056	U		0 019	J		0 9			84			5 3		
		VMP-22-18-110511	11/5/2011	14			<0 018	U		<0.0018	U		<0 0018	U		0 019	J		0.000043	J		84			2.4		
		VMP-22-18-012412	1/24/2012	10			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.000023	J		80			9.7		
		VMP-22-18-040912	4/9/2012	5.3			<0 048	U		<0.0048	U		<0 0048	U		0.14	J		<0 00048	U		81			14		
		VMP-22-18-070912	7/9/2012	5			<0 021	U		<0.0021	U		<0 0021	U		0 092	J		0.000019	J		78			17		
		VMP-22-18-100412	10/4/2012	2.9			<0 029	U		<0.0029	U		<0 0029	U		0 029	J		0.000018	J		78			19		
	38 ft	VMP-22-38-041811	4/18/2011	11			<0 028	U		0 0011	J		<0 0028	U		0 023	J		2.1			84			1 9		
		VMP-22-38-012512	1/25/2012	15			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.0076			83			1 8		
		VMP-22-38-040912	4/9/2012	10			<0.03	U		<0 003	U		<0 003	U		0 086	J		0 00012	J		80			10		
		VMP-22-38-070912	7/9/2012	6.7			<0 021	U		<0.0021	U		<0 0021	U		0 077	J		0.000019	J		78			15		
		VMP-22-38-100412	10/4/2012	5.5			<0.03	U		<0 003	U		<0 003	U		0 063	J		0.000021	J		78			16		

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	1.8			<0 026	U		<0.0026	U		<0 0026	U		0.1	J		0 00015	J		79			19		
		VMP-23-5-042111	4/21/2011	4.2			<0 023	U		<0.0023	U		<0 0023	U		0 063	J		0.000072	J		79			17		
		VMP-23-5-072711	7/27/2011	7.7			<0 026	U		<0.0026	U		<0 0026	U		0 018	J		0 00018	J		82			10		
		VMP-23-5-110211	11/2/2011	2.6			<0 019	U		<0.0019	U		<0 0019	U		0.12			0.000057	J		79			18		
		VMP-23-5-012512	1/25/2012	1.9			<0 016	U		<0.0016	U		<0 0016	U		0.0075	J		0 00011	J		78			20		
		VMP-23-5-040912	4/9/2012	0.76			<0 031	U		<0.0031	U		<0 0031	U		<0.15	U		0 00015	J		79			20		
		VMP-23-5-070912	7/9/2012	1.5			<0 017	U		<0.0017	U		<0 0017	U		0.14			0 00028			78			20		
		VMP-23-5-100312	10/3/2012	0.6			<0 029	U		<0.0029	U		<0 0029	U		0 053	J		0.000088	J		80			19		
	10 ft	VMP-23-10-021511	2/15/2011	8.1			<0 027	U		<0.0027	U		<0 0027	U		0 022	J		<0.00027	U		82			10		
		VMP-23-10-042111	4/21/2011	6.2			<0 028	U		<0.0028	U		<0 0028	U		1 5			<0.00028	U		79			13		
		VMP-23-10-072711	7/27/2011	9.4			<0 025	U		<0.0025	U		<0 0025	U		0 045	J		<0.00025	U		84			6 6		
		VMP-23-10-110211	11/2/2011	7.5			<0 018	U		<0.0018	U		<0 0018	U		0.0091	J		0.000037	J		82			10		
		VMP-23-10-012512	1/25/2012	4.4			<0 016	U		<0.0016	U		<0 0016	U		0 026	J		0.000064	J		79			17		
		VMP-23-10-040912	4/9/2012	0 83			<0 026	U		<0.0026	U		<0 0026	U		<0.13	U		0 00012	J		77			22		
		VMP-23-10-040912-Dup	4/9/2012	0 96			<0 032	U		<0.0032	U		<0 0032	U		<0.16	U		0 00007	J		80			19		
		VMP-23-10-070912	7/9/2012	1.6			<0 016	U		<0.0016	U		<0 0016	U		0 036	J		0.000093	J		78			20		
		VMP-23-10-100312	10/3/2012	0.8			<0 031	U		<0.0031	U		<0 0031	U		0 051	J		0.000064	J		79			20		
	25 ft	VMP-23-25-021511	2/15/2011	14			<0 025	U		<0.0025	U		<0 0025	U		0.02	J		0.000065	J		84			1 9		
		VMP-23-25-042111	4/21/2011	13			<0 026	U		<0.0026	U		<0 0026	U		0.08	J		0 00036			84			3.1		
		VMP-23-25-072711	7/27/2011	12			<0 029	U		<0.0029	U		<0 0029	U		0.0063	J		0.0011			86			1 9		
		VMP-23-25-110511	11/5/2011	11			<0 018	U		<0.0018	U		<0 0018	U		0 005	J		0.000029	J		84			5 2		
		VMP-23-25-012512	1/25/2012	12			<0 016	U		<0.0016	U		<0 0016	U		0.25			<0.00016	U		81			6 8		
		VMP-23-25-040912	4/9/2012	5			<0 031	U		<0.0031	U		<0 0031	U		0.07	J		0.000089	J		78			17		
		VMP-23-25-071012	7/10/2012	4.4			<0 024	U		<0.0024	U		<0 0024	U		0.17			<0.00024	U		79			16		
		VMP-23-25-100312	10/3/2012	3.6			<0.03	U		<0 003	U		<0 003	U		0 059	J		<0 0003	U		79			17		
	40 ft	VMP-23-40-071012	7/10/2012	0 041			<0 021	U		<0.0021	U		<0 0021	U		39			0 00014	J		49			12		
		VMP-23-40-100312	10/3/2012	5.6			<0 029	U		<0.0029	U		<0 0029	U		0 081	J		0.000031	J		79			15		
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	6.5			<0 028	U		<0.0028	U		<0 0028	U		0 016	J		0 00015	J		79			14		
		VMP-24-5-040811	4/8/2011	4.7			<0 023	U		<0.0023	U		<0 0023	U		0 013	J		0.0024			78			17		
		VMP-24-5-072811	7/28/2011	6.6			<0 028	U		<0.0028	U		<0 0028	U		0.71			0 00016	J		77			16		
		VMP-24-5-110211	11/2/2011	8.2			<0 019	U		<0.0019	U		<0 0019	U		<0 094	U		0.000056	J		79			13		
		VMP-24-5-110211-DUP	11/2/2011	8.2			<0 019	U		<0.0019	U		<0 0019	U		0.0044	J		0.000037	J		79			13		
		VMP-24-5-012512	1/25/2012	3.5			<0 016	U		<0.0016	U		<0 0016	U		0.0065	J		0 00019			78			18		
		VMP-24-5-040912	4/9/2012	4.1			<0 019	U		<0.0019	U		<0 0019	U		0.14			0.000095	J		78			18		
		VMP-24-5-071212	7/12/2012	4.9			<0 018	U		<0.0018	U		<0 0018	U		0 037	J		0 00011	J		78			17		
		VMP-24-5-101912	10/19/2012	3.5			<0 028	U		<0.0028	U		<0 0028	U		0 019	J		0 00012	J		80			17		
	10 ft	VMP-24-10-021711	2/17/2011	9			<0 027	U		<0.0027	U		<0 0027	U		0.02	J		0.000078	J		79			12		
		VMP-24-10-041111	4/11/2011	6.8			<0 025	U		<0.0025	U		<0 0025	U		0 051	J		0 00015	J		77			16		
		VMP-24-10-072811	7/28/2011	8.9			<0 028	U		<0.0028	U		<0 0028	U		0.0098	J		0 00013	J		79			12		
		VMP-24-10-110211	11/2/2011	9.3			<0 016	U		<0.0016	U		<0 0016	U		0 014	J		0.000067	J		79			12		
		VMP-24-10-012512	1/25/2012	7.2			<0 016	U		<0.0016	U		<0 0016	U		<0 078	U		0 00011	J		78			15		
		VMP-24-10-041012	4/10/2012	5.7			<0 018	U		<0.0018	U		<0 0018	U		0 052	J		0 00005	J		77			17		
		VMP-24-10-071212	7/12/2012	7.2			<0 021	U		<0.0021	U		<0 0021	U		0.11			0.000027	J		78			15		
		VMP-24-10-100912	10/9/2012	6.3			<0 026	U		<0.0026	U		<0 0026	U		0.07			0.000072	J		78			16		
	22 ft	VMP-24-22-021711	2/17/2011	9.7			<0 027	U		<0.0027	U		<0 0027	U		0.16			0 00031			78			12		
		VMP-24-22-041111	4/11/2011	9.3			<0 025	U		<0.0025	U		<0 0025	U		0 021	J		<0 00025	U		78			13		
		VMP-24-22-072811	7/28/2011	9.6			<0 025	U		<0.0025	U		<0 0025	U		0.0046	J		0 00016	J		78			12		
		VMP-24-22-072811-Dup	7/28/2011	9.7			<0 029	U		<0.0029	U		<0 0029	U		<0.14	U		0 00017	J		78			12		
		VMP-24-22-110611	11/6/2011	7.9			<0 018	U		<0.0018	U		<0 0018	U		0 21			0 00011	J		78			14		
		VMP-24-22-012512	1/25/2012	9			<0 016	U		<0.0016	U		<0 0016	U		0 23			0 00011	J		77			14		
		VMP-24-22-041012	4/10/2012	7.7			<0 018	U		<0.0018	U		<0 0018	U		0 075	J		0.000038	J		77			15		
		VMP-24-22-071212	7/12/2012	7.3			<0 022	U		<0.0022	U		<0 0022	U		0 083	J		0.000028	J		78			15		
		VMP-24-22-100912	10/9/2012	7.7			<0 027	U		<0.0027	U		<0 0027	U		0 018	J		0.000033	J		77			15		
	34 ft	VMP-24-34-021711	2/17/2011	10			<0 027	U		<0.0027	U		<0 0027	U		0.15			0.000049	J		79			11		
		VMP-24-34-041111	4/11/2011	9.4			<0 024	U		<0.0024	U		<0 0024	U		0 085	J		<0 00024	U		78			13		
		VMP-24-34-072811	7/28/2011	7.5			<0 021	U		<0.0021	U		<0 0021	U		0 024	J		0 00014	J		78			14		
		VMP-24-34-110611	11/6/2011	6.7			<0 014	U		<0.0014	U		<0 0014	U		0.0045	J		0.000074	J		78			15		
		VMP-24-34-012512	1/25/2012	7.6			<0 017	U		<0.0017	U		<0 0017	U		<0 084	U		0.000091	J		77			15		
		VMP-24-34-041012	4/10/2012	4.9			<0 019	U		<0.0019	U		<0 0019	U		0.12			0.000071	J		78			17		
		VMP-24-34-071212	7/12/2012	6.7			<0 018	U		<0.0018	U		<0 0018	U		0 048	J		0.000054	J		78			15		
		VMP-24-34-100912	10/9/2012	6.7			<0 028	U		<0.0028	U		<0 0028	U		0 025	J		0 00017	J		77			16		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	4.5			<0 024	U		<0.0024	U		<0 0024	U		<0.12	U		0 044			93			2 9		
		VMP-25-5-040811	4/8/2011	6.9			<0 028	U		<0.0028	U		<0 0028	U		0 024	J		0.0036			90			3.4		
		VMP-25-5-080911	8/9/2011	5.3			<0 023	U		<0.0023	U		<0 0023	U		0 012	J		0 00094			81			14		
		VMP-25-5-080911-DUP	8/9/2011	7.8			<0.02	U		<0 002	U		<0.002	U		0.25			0.0013			180			11		
		VMP-25-5-111711	11/17/2011	3.2			<0 017	U		<0.0017	U		<0 0017	U		<0.084	U		0.000071	J		86			11		
		VMP-25-5-013112	1/31/2012	2.5			<0 018	U		<0.0018	U		<0 0018	U		<0.092	U		0.0001	J		86			11		
		VMP-25-5-042512	4/25/2012	5.9			<0 025	U		<0.0025	U		<0 0025	U		<0.13	U		0 00005	J		84			10		
		VMP-25-5-072612	7/26/2012	12			<0.02	U		<0 002	U		<0.002	U		0 075	J		0.0021			81			6 5		
		VMP-25-5-102612	10/26/2012	4.3			<0 027	U		<0.0027	U		<0 0027	U		0 026	J		0.0002	J		86			10		
	21 ft	VMP-25-21-031511	3/15/2011	15			<0 024	U		0 029			<0 0024	U		<0.12	U		30			50			1.1		
		VMP-25-21-031511-DUP	3/15/2011	14			<0 024	U		0 029			<0 0024	U		<0.12	U		29			52			1 2		
		VMP-25-21-040811	4/8/2011	14			<0 025	U		0.02			<0 0025	U		0 009	J		26			54			2 8		
		VMP-25-21-040811-DUP	4/8/2011	13			<0 026	U		0.02			<0 0026	U		0 026	J		25			56			3 3		
		VMP-25-21-080911	8/9/2011	9.2			<0 026	U		0 016			<0 0026	U		0.0086	J		22			61			7 3		
		VMP-25-21-111711	11/17/2011	13			<0 017	U		0 019			<0 0017	U		0.0055	J		26			54			3 8		
		VMP-25-21-111711-DUP	11/17/2011	13			<0 017	U		0 019			<0 0017	U		0.0039	J		26			54			4		
		VMP-25-21-013112	1/31/2012	15			<0 018	U		0 022			<0 0018	U		<0.088	U		30			51			1 2		
		VMP-25-21-013112-DUP	2/1/2012	15			<0 018	U		0 022			<0 0018	U		<0 088	U		30			51			1.1		
		VMP-25-21-042512	4/25/2012	14			<0 018	U		0 022			<0 0018	U		0 011	J		30			52			1 2		
		VMP-25-21-072612	7/26/2012	13			<0.02	U		0 024			<0 002	U		0.0099	J		32			50			1 9		
		VMP-25-21-102612	10/26/2012	15			<0 026	U		0 024			<0 0026	U		<0.13	U		39			41			1.4		
VMP-29	10 ft	VMP-29-10-073012	7/30/2012	9.1			<0.02	U		<0 002	U		<0 002	U		<0.1	U		<0 0002	U		81			9 5		
		VMP-29-10-100812	10/8/2012	8.5			<0 028	U		<0.0028	U		<0 0028	U		<0.14	U		0 00011	J		82			10		
	20 ft	VMP-29-20-073012	7/30/2012	9.8			<0.02	U		<0 002	U		<0 002	U		<0.1	U		0.000078	J		81			8 8		
		VMP-29-20-073012-Dup	7/30/2012	9.3			<0 025	U		<0.0025	U		<0 0025	U		0.06	J		0 00003	J		81			9 6		
		VMP-29-20-100812	10/8/2012	9.5			<0 028	U		<0.0028	U		<0 0028	U		0 018	J		0 00011	J		81			9.1		
	30 ft	VMP-29-30-073012	7/30/2012	11			<0 021	U		<0.0021	U		<0 0021	U		0 012	J		0.000027	J		82			6 6		
		VMP-29-30-100812	10/8/2012	12			<0.03	U		<0 003	U		<0 003	U		0 026	J		0.000021	J		82			6.1		
VMP-30	10 ft	VMP-30-10-073012	7/30/2012	5.1			<0 019	U		<0.0019	U		<0 0019	U		0 007	J		0.000019	J		80			15		
		VMP-30-10-100812	10/8/2012	2.5			<0 028	U		<0.0028	U		<0 0028	U		0 028	J		0.000049	J		79			18		
	20 ft	VMP-30-20-073012	7/30/2012	12			<0 019	U		<0.0019	U		<0 0019	U		0 029	J		0.000091	J		83			5		
		VMP-30-20-100812	10/8/2012	11			<0 029	U		<0.0029	U		<0 0029	U		0 036			0.000089	J		81			8 3		
	30 ft	VMP-30-30-073012	7/30/2012	14			<0.02	U		<0 002	U		<0 002	U		0.0098	J		0 002			84			2.4		
		VMP-30-30-100812	10/8/2012	14			<0 029	U		<0.0029	U		<0 0029	U		<0.14	U		0.0005			81			5.4		
VMP-31	5 ft	VMP-31-5-042512	4/25/2012	0 92			<0 027	U		<0.0027	U		<0 0027	U		0 094	J		0 00011	J		80			19		
		VMP-31-5-072012	7/20/2012	0 63			<0 019	U		<0.0019	U		<0 0019	U		1 3			0 00023			78			20		
		VMP-31-5-102612	10/26/2012	0.47			<0 028	U		<0.0028	U		<0 0028	U		0 062	J		0 00016	J		80			20		
	10 ft	VMP-31-10-042512	4/25/2012	1.1			<0 025	U		<0.0025	U		<0 0025	U		0.22			0 00012	J		80			19		
		VMP-31-10-072612	7/26/2012	0 99			<0.02	U		<0 002	U		<0 002	U		<0 098	U		0 00023			79			20		
		VMP-31-10-102612	10/26/2012	0 57			<0.03	U		<0 003	U		<0 003	U		2 6			0 00014	J		77			20		
	20 ft	VMP-31-20-101912	10/19/2012	8			<0 028	U		<0.0028	U		<0 0028	U		0.21			0 014			82			9 9		
	30 ft	VMP-31-30-042512	4/25/2012	11			<0.02	U		0 00049	J		0.000081	J		0 016	J		1 2			86			1 8		
		VMP-31-30-042512-Dup	4/25/2012	12			<0.02	U		0 00022	J		<0 002	U		0.0094	J		0.92			85			1.7		
		VMP-31-30-072012	7/20/2012	9.3			<0 019	U		<0.0019	U		<0 0019	U		0 023	J		0 079			83			7 8		
		VMP-31-30-101912	10/19/2012	2.5			<0 028	U		<0.0028	U		<0 0028	U		0 021	J		0.0031			79			18		
VMP-32	5 ft	VMP-32-5-042512	4/25/2012	0 29			<0 026	U		<0.0026	U		<0 0026	U		0 066	J		0.0002	J		79			21		
		VMP-32-5-072012	7/20/2012	1.1			<0 017	U		<0.0017	U		<0 0017	U		0 095			0 00016	J		79			20		
		VMP-32-5-101812	10/18/2012	0 88			<0 032	U		<0.0032	U		<0 0032	U		0 024	J		0.000068	J		81			18		
	10 ft	VMP-32-10-041612	4/16/2012	2.3			<0 023	U		<0.0023	U		<0 0023	U		0.15			0 00013	J		76			22		
		VMP-32-10-072012	7/20/2012	3.7			<0.02	U		<0 002	U		<0 002	U		0 056	J		0.000063	J		79			17		
		VMP-32-10-101812	10/18/2012	3.4			<0.03	U		<0 003	U		<0 003	U		0 018	J		0.000036	J		80			17		
	20 ft	VMP-32-20-041612	4/16/2012	3.7			<0.02	U		<0 002	U		<0 002	U		0 057	J		0 00013	J		80			16		
		VMP-32-20-072012	7/20/2012	4.9			<0 019	U		<0.0019	U		<0 0019	U		0 022	J		0.000079	J		81			14		
		VMP-32-20-101812	10/18/2012	4.8			<0 028	U		<0.0028	U		<0 0028	U		0 013	J		0.000027	J		79			16		
	30 ft	VMP-32-30-041612	4/16/2012	11			<0 019	U		0 00022	J		<0 0019	U		0.1			0.83			86			1 9		
		VMP-32-30-072012	7/20/2012	11			<0 019	U		0.0001	J		<0 0019	U		0 059	J		0.44			87			1 6		
		VMP-32-30-101812	10/18/2012	10			<0 028	U		<0.0028	U		<0 0028	U		0 013	J		0 015			83			7		

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TABLE 7
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - NATURAL GASES

Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier	Result %	Lab Qualifier	URS Qualifier
VMP-41	10 ft	VMP-41-10-072712	7/27/2012	5.2			<0.02	U		<0 002	U		<0.002	U		0 019	J		0 00014	J		80			15		
		VMP-41-10-100912	10/9/2012	4.8			<0.03	U		<0 003	U		<0.003	U		0 011	J		0.000022	J		81			14		
	20 ft	VMP-41-20-072712	7/27/2012	7.2			<0 019	U		<0.0019	U		<0 0019	U		<0.094	U		0.000023	J		80			13		
		VMP-41-20-072712-Dup	7/27/2012	7.1			<0 019	U		<0.0019	U		<0 0019	U		<0.096	U		0.000018	J		80			13		
		VMP-41-20-100912	10/9/2012	6.5			<0 029	U		<0.0029	U		<0 0029	U		0.53			0.000027	J		81			12		
		VMP-41-20-100912-Dup	10/9/2012	6.7			<0.03	U		<0 003	U		<0 003	U		0 019	J		0.000024	J		81			12		
	30 ft	VMP-41-30-072712	7/27/2012	8.2			<0 019	U		<0.0019	U		<0 0019	U		0.0071	J		0.000037	J		80			12		
		VMP-41-30-100912	10/9/2012	8.6			<0 031	U		<0.0031	U		<0 0031	U		<0.16	U		0.000058	J		81			10		
VMP-42	10 ft	VMP-42-10-041812	4/18/2012	3.1			<0 022	U		<0.0022	U		<0 0022	U		0 052	J		<0.00022	U		79			18		
		VMP-42-10-041812-Dup	4/18/2012	3.1			<0 023	U		<0.0023	U		<0 0023	U		0 031	J		<0.00023	U		79			18		
		VMP-42-20-041812	4/18/2012	9.6			<0 024	U		<0.0024	U		<0 0024	U		0 038	J		0 064			83			7.4		
		VMP-42-10-071912	7/19/2012	2.5			<0 026	U		<0.0026	U		<0 0026	U		0.1	J		0.000028	J		79			19		
		VMP-42-10-101212	10/12/2012	0 92			<0 031	U		<0.0031	U		<0 0031	U		<0.15	U		0 00002	J		79			20		
	20 ft	VMP-42-20-071912	7/19/2012	6.7			<0 024	U		<0.0024	U		<0 0024	U		0 055	J		0.000033	J		220			14		
		VMP-42-20-101212	10/12/2012	3.4			<0 037	U		<0.0037	U		<0 0037	U		0 093	J		0.000036	J		79			18		
		VMP-42-20-101212-Dup	10/12/2012	3.3			<0 028	U		<0.0028	U		<0 0028	U		0 051	J		0.000047	J		78			19		
	30 ft	VMP-42-30-041912	4/19/2012	12			<0 019	U		0 00022	J		<0 0019	U		0 028	J		0.45			86			1 8		
		VMP-42-30-071912	7/19/2012	9.2			<0 023	U		<0.0023	U		<0 0023	U		0 048	J		0 027			89			2.1		
		VMP-42-30-101212	10/12/2012	8.2			<0 029	U		<0.0029	U		<0 0029	U		0 035	J		0.0017			79			13		
		VMP-42-30-101212-Dup	10/12/2012	8.2			<0 029	U		<0.0029	U		<0 0029	U		0.04	J		0.0017			79			13		
VMP-43	10 ft	VMP-43-10-041612	4/16/2012	0 88			<0 025	U		<0.0025	U		<0 0025	U		0.43			0 00011	J		81			18		
		VMP-43-10-071912	7/19/2012	0 87			<0 023	U		<0.0023	U		<0 0023	U		0.16			0 00019	J		80			19		
		VMP-43-10-101612	10/16/2012	0 55			<0 032	U		<0.0032	U		<0 0032	U		0 071	J		0 00011	J		80			19		
	20 ft	VMP-43-20-041612	4/16/2012	4.8			<0 019	U		<0.0019	U		<0 0019	U		0.16			0 012			80			15		
		VMP-43-20-071912	7/19/2012	2.9			<0 024	U		<0.0024	U		<0 0024	U		0 073	J		0.0016			80			17		
		VMP-43-20-101812	10/18/2012	1.9			<0 026	U		<0.0026	U		<0 0026	U		0 054	J		0.0008			80			18		
	30 ft	VMP-43-30-042312	4/23/2012	2.8			<0 023	U		<0.0023	U		<0 0023	U		0 016	J		0.0008			75			22		
		VMP-43-30-071912	7/19/2012	2.5			<0 031	U		<0.0031	U		<0 0031	U		0 044	J		0 00071			80			18		
		VMP-43-30-101812	10/18/2012	1.3			<0 037	U		<0.0037	U		<0 0037	U		0 016	J		0.000047	J		79			20		
VMP-44	10 ft	VMP-44-10-041912	4/19/2012	9.1			<0 018	U		<0.0018	U		<0 0018	U		0 047	J		0 025			84			6 6		
		VMP-44-10-072012	7/20/2012	14			<0 018	U		<0.0018	U		<0 0018	U		0 037	J		0 022			81			4 3		
		VMP-44-10-081012	8/10/2012	12			<0 018	U		<0.0018	U		<0 0018	U		0 038	J		0 045			91			6.4		
		VMP-44-10-101212	10/12/2012	5.9			<0 028	U		<0.0028	U		<0 0028	U		1.4			0.0063			81			12		
	20 ft	VMP-44-20-041912	4/19/2012	12			<0.02	U		<0 002	U		<0 002	U		0.17			0 069			85			2 5		
		VMP-44-20-072512	7/25/2012	15			<0 021	U		<0.0021	U		<0 0021	U		0 056	J		0 019			81			3 9		
		VMP-44-20-101212	10/12/2012	11			<0.03	U		<0 003	U		<0 003	U		0.21			0.0086			81			7 8		
	30 ft	VMP-44-30-041912	4/19/2012	12			<0 019	U		<0.0019	U		<0 0019	U		0 046	J		0 076			86			2 2		
		VMP-44-30-072512	7/25/2012	9.2			<0.02	U		<0 002	U		<0 002	U		0 028	J		0.0033			81			10		
		VMP-44-30-072512-Dup	7/25/2012	9.4			<0.02	U		<0 002	U		<0 002	U		0 016	J		0.0034			81			9 9		
		VMP-44-30-101512	10/15/2012	5.3			<0.03	U		<0 003	U		<0 003	U		0 019	J		0 003			80			15		
		VMP-44-30-101512-Dup	10/15/2012	5.1			<0 028	U		<0.0028	U		<0 0028	U		0 018	J		0.0029			80			15		
VMP-45	10 ft	VMP-45-10-041912	4/19/2012	0 86			<0 031	U		<0.0031	U		<0 0031	U		0.11	J		<0.00031	U		79			20		
		VMP-45-10-071912	7/19/2012	0 83			<0 024	U		<0.0024	U		<0 0024	U		0 053	J		0.000027	J		79			20		
		VMP-45-10-101512	10/15/2012	0.4			<0 029	U		<0.0029	U		<0 0029	U		0.06	J		0.000018	J		80			20		
	20 ft	VMP-45-20-041912	4/19/2012	6.3			<0 018	U		<0.0018	U		<0 0018	U		0.14			0.0003			80			14		
		VMP-45-20-071912	7/19/2012	4.2			<0 018	U		<0.0018	U		<0 0018	U		0 6			0 00022			78			17		
		VMP-45-20-101512	10/15/2012	2.4			<0 028	U		<0.0028	U		<0 0028	U		0 028	J		0 00076			80			18		
	30 ft	VMP-45-30-041912	4/19/2012	10			<0 019	U		<0.0019	U		<0 0019	U		0 033	J		0 024			85			4 9		
		VMP-45-30-071912	7/19/2012	7.8			<0 019	U		<0.0019	U		<0 0019	U		0 045	J		0 00082			83			9 3		
		VMP-45-30-101512	10/15/2012	4.1			<0 028	U		<0.0028	U		<0 0028	U		0 03	J		0.0005			80			16		
		VMP-45-30-101512-Dup	10/15/2012	4.2			<0 027	U		<0.0027	U		<0 0027	U		0 026	J		0.0005			80			16		

Notes
Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL
URS Qualifiers
J = Estimated detection
UJ = Estimated non-detect
U = Non-detect due to blank contamination

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TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-3	2/1/2012	1547	NA	NA	NA	0.3	6.0	1.8	18.7	52.3	250.7	55.4	195	
SVE-3	2/2/2012	848	NA	NA	NA	0.0	1.0	1.5	18.9	22.2	115	4.3	111	
SVE-3	2/7/2012	1404	-0.88	NA	NA	0.0	0.0	1.6	19.2	12.0	67.7	8.9	58.8	
SVE-3	2/15/2012	1357	-2.50	NA	NA	0.2	4.0	1.4	19.0	61.9	340	4.0	336	
SVE-3	2/17/2012	1026	-2.66	NA	NA	0.0	0.0	1.4	19.8	23.1	65.3	8.0	57.3	
SVE-3	2/22/2012	1615	-2.43	NA	NA	0.0	0.0	1.8	19.0	8.0	28.3	11.6	16.7	
SVE-3	2/29/2012	827	-1.86	NA	NA	0.0	0.0	2.0	18.6	19.5	136	16.4	120	
SVE-3	3/21/2012	1416	-1.15	NA	NA	0.0	0.0	1.6	18.4	0.5	0.0	0.0	0.0	
SVE-3	4/18/2012	1545	-2.26	NA	NA	0.0	0.0	2.3	17.3	3.5	46.0	20.0	26.0	
SVE-3	5/16/2012	1513	-3.08	NA	NA	0.0	0.0	2.1	18.5	1.0	0.0	0.0	0.0	
SVE-3	6/20/2012	1413	-0.68	0.00	NE	0.0	0.0	0.1	20.8	7.5	5.6	0.0	5.6	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-3	7/18/2012	1104	-2.72	0.24	NE	0.0	0.0	1.4	19.0	0.7	4.7	0.0	4.7	
SVE-3	8/15/2012	1440	-2.78	NA	NA	0.0	0.0	1.8	18.7	0.9	3.5	0.0	3.5	Water present in SVE vault.
SVE-3	9/19/2012	813	-4.57	NA	NE	0.0	0.0	1.4	19.3	0.8	1.2	0.0	1.2	
SVE-3	10/17/2012	1434	-0.49	0.00	NE	0.0	0.0	0.7	19.8	0.4	1.1	0.0	1.1	Water present in SVE vault.
SVE-3	11/20/2012	1210	-1.19	NA	NE	0.0	0.0	0.5	20.4	13.0	31.9	3.4	28.5	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-3	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Vehicle parked on well. Could not access.
SVE-4	2/1/2012	1535	NA	NA	NA	0.0	0.0	1.4	19.7	1.3	7.1	0.0	7.1	
SVE-4	2/2/2012	912	NA	NA	NA	0.0	0.0	0.9	20.0	6.0	4.1	0.0	4.1	
SVE-4	2/7/2012	1414	-2.46	NA	NA	0.0	0.0	1.3	20.0	0.2	0.8	0.0	0.8	
SVE-4	2/15/2012	1349	-5.25	NA	NA	0.0	0.0	1.1	19.9	4.9	10.7	0.0	10.7	
SVE-4	2/17/2012	1022	-2.67	NA	NA	0.0	0.0	1.2	20.2	0.8	5.8	5.8	0.0	
SVE-4	2/22/2012	1645	-2.48	NA	NA	0.0	0.0	1.2	20.9	0.7	3.0	0.0	3.0	
SVE-4	2/29/2012	816	-1.96	NA	NA	0.0	0.0	1.0	20.4	2.4	29.8	8.4	21.3	
SVE-4	3/21/2012	1405	-1.16	NA	NA	0.0	0.0	0.9	19.5	0.3	0.0	0.0	0.0	
SVE-4	4/18/2012	1545	-2.26	NA	NA	0.0	0.0	1.4	18.8	3.0	6.3	0.0	6.3	
SVE-4	5/16/2012	1524	-3.06	NA	NA	0.0	0.0	1.5	19.0	1.0	0.0	0.0	0.0	
SVE-4	6/20/2012	1359	-1.16	0.00	NE	0.0	0.0	1.7	18.6	0.4	3.0	0.0	3.0	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-4	7/18/2012	1124	-2.64	0.02	NE	0.0	0.0	1.2	19.2	0.9	4.2	0.0	4.2	
SVE-4	8/15/2012	1455	-2.78	0.00	NA	0.0	0.0	1.3	19.7	0.8	3.0	0.0	3.0	
SVE-4	9/19/2012	825	-4.59	0.00	NE	0.0	0.0	1.3	19.6	0.5	0.7	0.0	0.7	
SVE-4	10/17/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Vehicle parked on well. Could not access.
SVE-4	11/20/2012	1206	-0.52	NA	NE	0.0	0.0	0.9	20.0	0.7	2.4	0.0	2.4	
SVE-4	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Vehicle parked on well. Could not access.
SVE-5	2/15/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
SVE-5	2/16/2012	1429	-2.77	NA	NA	84.2	OVR	7.7	2.2	122	92000	64410	27590	
SVE-5	2/17/2012	917	-2.71	NA	NA	82.8	OVR	7.2	3.2	128	100000	71200	28800	
SVE-5	2/22/2012	922	-2.40	NA	NA	OVR	OVR	7.5	2.7	125	103000	69930	33070	
SVE-5	2/29/2012	828	-2.56	NA	NA	OVR	OVR	7.8	2.9	122	74380	54070	20310	
SVE-5	3/21/2012	815	-1.49	NA	NA	65.4	OVR	7.4	4.5	122	87300	57500	29800	
SVE-5	4/18/2012	852	-2.60	0.04	18.79	87.3	OVR	7.3	5.2	112	62000	42600	19400	
SVE-5	5/16/2012	1450	-2.33	NA	NA	85.3	OVR	6.7	5.2	111	32500	24700	7800	
SVE-5	6/20/2012	640	-2.89	0.00	18.82	OVR	OVR	7.5	7.2	94.0	50900	36300	14600	
SVE-5	7/18/2012	550	-3.04	0.00	17.77	84.4	OVR	6.6	8.8	91.6	49300	28100	21200	
SVE-5	8/15/2012	1346	-3.03	0.00	NA	OVR	OVR	7.6	8.4	123	48000	26550	21450	
SVE-5	9/19/2012	1135	-5.22	NA	19.78	80.2	OVR	7.1	9.9	131	29600	18900	10700	
SVE-5	10/17/2012	1004	-5.61	0.00	18.77	80.0	OVR	6.5	10.5	113	41800	21200	20600	
SVE-5	11/20/2012	849	-4.87	0.00	18.79	54.7	OVR	6.1	11.6	162	31700	18200	13500	
SVE-5	12/19/2012	930	-3.00	NA	18.77	33.8	OVR	6.2	11.5	181	18900	10700	8200	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-6	2/15/2012	1617	-2.54	NA	NA	OVR	OVR	8.1	5.9	146	106000	47000	59000	
SVE-6	2/16/2012	1437	-2.77	NA	NA	OVR	OVR	9.4	4.2	142	93300	75300	18000	
SVE-6	2/17/2012	928	-2.67	NA	NA	OVR	OVR	9.9	1.6	147	150000	90200	59800	
SVE-6	2/22/2012	938	-2.37	NA	NA	OVR	OVR	9.6	1.3	143	192000	95000	97000	
SVE-6	2/29/2012	836	-2.63	NA	NA	OVR	OVR	9.1	3.5	140	111000	72580	38420	
SVE-6	3/21/2012	822	-1.51	NA	NA	OVR	OVR	8.0	5.8	131	78000	51100	26900	
SVE-6	4/18/2012	909	-2.63	0.32	22.78	86.5	OVR	7.5	6.0	135	58600	40000	18600	
SVE-6	5/16/2012	1050	-2.78	1.71	NE	71.1	OVR	7.1	7.2	148	49100	36000	13100	
SVE-6	6/20/2012	654	-2.91	0.01	22.83	62.9	OVR	6.9	6.6	126	33570	26500	7070	
SVE-6	7/18/2012	602	-3.07	0.01	22.79	46.9	OVR	7.9	7.6	155	34500	20000	14500	
SVE-6	8/15/2012	1338	-3.03	NA	NA	41.5	OVR	8.9	7.9	191	20600	19000	1600	
SVE-6	9/19/2012	907	-5.23	NA	22.80	26.5	OVR	8.2	10.1	232	12700	8900	3800	
SVE-6	10/17/2012	1015	-5.58	0.00	22.79	33.5	OVR	8.2	9.8	234	17400	15500	1900	
SVE-6	11/20/2012	858	-4.85	0.01	22.59	22.0	OVR	7.7	10.6	327	12700	10200	2500	
SVE-6	12/19/2012	935	-3.04	NA	22.43	11.9	OVR	7.9	10.7	347	8900	6000	2900	
SVE-7	2/15/2012	1627	-2.51	NA	NA	81.0	OVR	12.0	1.1	147	67680	47000	20680	
SVE-7	2/16/2012	1450	-2.75	NA	NA	86.6	OVR	12.2	2.2	151	47470	39200	8270	
SVE-7	2/17/2012	942	-2.67	NA	NA	86.3	OVR	11.0	2.5	154	59100	40700	18400	
SVE-7	2/22/2012	1010	-2.39	NA	NA	OVR	OVR	9.9	2.4	151	71300	50600	20700	
SVE-7	2/29/2012	854	-2.51	NA	NA	OVR	OVR	9.1	2.9	147	78800	50380	28420	
SVE-7	3/21/2012	835	-1.49	NA	NA	85.4	OVR	9.7	3.9	143	74300	41800	32500	
SVE-7	4/18/2012	931	-2.63	0.12	22.71	62.0	OVR	8.9	6.2	152	31300	21000	10300	
SVE-7	5/16/2012	1112	-2.76	2.24	NE	65.5	OVR	8.0	8.7	159	31200	18600	12600	
SVE-7	6/20/2012	718	-2.95	0.01	22.78	63.8	OVR	8.6	8.9	132	26200	17250	8950	
SVE-7	7/18/2012	623	-3.07	0.16	22.71	58.4	OVR	7.9	10.1	159	28900	12000	16900	
SVE-7	8/15/2012	1327	-3.04	NA	NA	45.8	OVR	7.9	10.9	201	20230	11300	8930	
SVE-7	9/19/2012	917	-5.25	NA	22.40	29.4	OVR	6.1	13.3	259	24700	6600	18100	
SVE-7	10/17/2012	1025	-5.67	0.00	22.79	54.3	OVR	5.7	13.0	213	21600	15600	6000	
SVE-7	11/20/2012	911	-4.90	0.01	22.79	23.8	OVR	4.9	14.1	310	14700	7300	7400	
SVE-7	12/19/2012	950	-3.02	NA	22.73	7.8	OVR	4.6	14.6	293	6400	2800	3600	
SVE-8	2/15/2012	1638	-2.57	NA	NA	OVR	OVR	9.0	4.1	346	62000	36200	25800	
SVE-8	2/16/2012	1501	-2.77	NA	NA	OVR	OVR	10.5	1.4	362	71800	39000	32800	
SVE-8	2/17/2012	950	-2.70	NA	NA	OVR	OVR	10.1	1.9	350	71700	49600	22100	
SVE-8	2/22/2012	1036	-2.43	NA	NA	OVR	OVR	8.1	3.0	271	84450	66270	18180	
SVE-8	2/29/2012	907	-2.50	NA	NA	OVR	OVR	7.4	4.9	248	100000	69330	30670	
SVE-8	3/21/2012	845	-1.50	NA	NA	OVR	OVR	6.8	7.3	249	102000	60800	41200	
SVE-8	4/18/2012	952	-2.66	0.31	NE	OVR	OVR	7.0	8.7	305	56000	31900	24100	
SVE-8	5/16/2012	1133	-2.79	0.21	NE	69.5	OVR	6.0	11.0	400	22900	15700	7200	
SVE-8	6/20/2012	735	-2.97	0.01	22.27	48.8	OVR	6.9	9.8	415	13000	1550	11450	
SVE-8	7/18/2012	642	-3.12	0.33	22.23	32.0	OVR	7.0	9.9	531	11800	3100	8700	
SVE-8	8/15/2012	1240	-3.11	0.01	NA	29.7	OVR	7.4	10.3	529	8200	1670	6530	
SVE-8	9/19/2012	928	-5.34	NA	22.23	16.7	OVR	6.3	12.2	726	4620	794	3826	
SVE-8	10/17/2012	1037	-5.74	0.00	22.23	10.9	OVR	6.1	12.4	515	3950	630	3320	
SVE-8	11/20/2012	922	-5.00	0.00	22.25	6.5	OVR	5.9	12.4	557	2900	650	2250	
SVE-8	12/19/2012	1015	-3.25	NA	22.23	3.5	70.0	5.8	12.5	545	1900	370	1530	

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TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-9	2/15/2012	1646	-2.61	NA	NA	81.8	OVR	3.8	14.2	440	28720	11960	16760	
SVE-9	2/16/2012	1510	-2.82	NA	NA	OVR	OVR	7.9	5.8	362	69000	24830	44170	
SVE-9	2/17/2012	957	-2.76	NA	NA	OVR	OVR	9.2	3.4	392	126000	36290	89710	
SVE-9	2/22/2012	1056	-2.44	NA	NA	OVR	OVR	9.3	3.2	400	121000	39270	81730	
SVE-9	2/29/2012	925	-2.64	NA	NA	OVR	OVR	8.1	5.1	402	86360	23660	62700	
SVE-9	3/21/2012	855	-1.47	NA	NA	4.3	86.0	1.1	18.3	238	5730	1490	4240	
SVE-9	4/18/2012	1009	-2.66	0.22	22.48	OVR	OVR	7.6	4.5	575	35000	7150	27850	
SVE-9	5/16/2012	1152	-2.82	1.87	NE	37.3	OVR	4.4	12.5	565	10100	1900	8200	
SVE-9	6/20/2012	749	-2.98	0.01	22.56	35.9	OVR	4.3	12.0	522	11850	2550	9300	
SVE-9	7/18/2012	657	-3.14	0.00	22.58	84.0	OVR	7.7	8.3	512	19000	2400	16600	
SVE-9	8/15/2012	1215	-3.25	0.00	NA	OVR	OVR	8.5	8.0	491	16700	4000	12700	
SVE-9	9/19/2012	939	-5.48	NA	21.44	74.3	OVR	7.2	9.7	687	11500	1860	9640	
SVE-9	10/17/2012	1048	-5.88	0.00	22.19	31.3	OVR	6.9	6.8	510	9400	1220	8180	
SVE-9	11/20/2012	933	-5.05	0.01	22.27	32.9	OVR	6.2	10.6	647	8200	1400	6800	
SVE-9	12/19/2012	1040	-3.12	NA	22.53	41.0	OVR	7.3	9.1	830	9300	1300	8000	
SVE-10	2/1/2012	1415	NA	NA	NA	OVR	OVR	8.5	2.5	123	615000	390000	225000	
SVE-10	2/2/2012	955	NA	NA	NA	OVR	OVR	8.2	3.0	115	950000	305000	645000	
SVE-10	2/7/2012	950	-2.89	NA	NA	OVR	OVR	7.9	2.0	101	1000000	768000	232000	
SVE-10	2/15/2012	931	-2.69	NA	NA	OVR	OVR	7.8	3.0	129	862000	289000	573000	
SVE-10	2/22/2012	1126	-2.44	NA	NA	OVR	OVR	7.3	4.9	173	790000	204000	586000	
SVE-10	2/29/2012	942	-1.40	NA	NA	OVR	OVR	5.7	9.4	223	157000	73830	83170	
SVE-10	3/21/2012	904	-1.51	NA	NA	OVR	OVR	8.0	4.8	172	442000	158000	284000	
SVE-10	4/18/2012	1028	-2.56	1.66	22.59	OVR	OVR	8.4	5.2	270	139000	66500	72500	
SVE-10	5/16/2012	1206	-2.73	0.67	NE	OVR	OVR	8.2	6.7	325	69900	46100	23800	
SVE-10	6/20/2012	805	-3.24	0.00	22.65	OVR	OVR	9.1	6.2	317	38700	35100	3600	
SVE-10	7/18/2012	713	-2.93	0.04	22.62	OVR	OVR	8.6	7.2	233	46900	20300	26600	
SVE-10	8/15/2012	1201	-2.94	0.00	NA	OVR	OVR	9.3	6.8	398	30200	10500	19700	
SVE-10	9/19/2012	948	-4.68	NA	22.65	OVR	OVR	7.6	9.4	569	19400	4500	14900	
SVE-10	10/17/2012	1149	-6.87	0.00	22.58	OVR	OVR	7.9	9.5	563	25100	6500	18600	
SVE-10	11/20/2012	943	-4.22	0.01	22.59	71.8	OVR	8.3	9.2	589	13300	5300	8000	
SVE-10	12/19/2012	1055	-2.87	NA	22.57	41.0	OVR	7.7	10.0	650	12200	3800	8400	
SVE-11	2/1/2012	1428	NA	NA	NA	OVR	OVR	9.6	1.2	287	205000	100000	105000	
SVE-11	2/2/2012	1002	NA	NA	NA	OVR	OVR	9.5	1.5	270	300000	81400	218600	
SVE-11	2/7/2012	1006	-3.05	NA	NA	OVR	OVR	9.3	1.5	247	379000	125000	254000	
SVE-11	2/15/2012	955	-2.73	NA	NA	OVR	OVR	8.5	1.5	295	135000	90000	45000	
SVE-11	2/22/2012	1148	-2.54	NA	NA	OVR	OVR	8.0	2.1	321	229000	103000	126000	
SVE-11	2/29/2012	1003	-2.58	NA	NA	OVR	OVR	7.9	1.9	316	116000	62000	54000	
SVE-11	3/21/2012	914	-1.53	NA	NA	OVR	OVR	8.1	1.1	329	264000	87000	177000	
SVE-11	4/18/2012	1052	-2.60	0.06	22.78	OVR	OVR	9.0	1.4	410	105000	43700	61300	
SVE-11	5/16/2012	1223	-2.73	1.41	NE	OVR	OVR	10.1	2.4	485	70000	29400	40600	
SVE-11	6/20/2012	821	-3.31	0.00	22.82	OVR	OVR	11.1	1.4	364	61600	36600	25000	
SVE-11	7/18/2012	735	-2.95	0.02	22.77	OVR	OVR	11.2	2.4	240	73400	21500	51900	
SVE-11	8/15/2012	1134	-3.08	0.00	NA	OVR	OVR	11.7	2.3	409	60800	12800	48000	
SVE-11	9/19/2012	958	-5.15	NA	22.78	OVR	OVR	10.3	4.6	508	52400	9700	42700	
SVE-11	10/17/2012	1202	-6.96	0.00	22.77	OVR	OVR	9.9	4.5	584	52900	7900	45000	
SVE-11	11/20/2012	956	-5.14	0.02	22.80	OVR	OVR	9.7	4.8	566	39600	5800	33800	
SVE-11	12/19/2012	1100	-2.96	NA	22.77	OVR	OVR	10.1	4.4	820	29600	7400	22200	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-12	2/1/2012	1455	NA	NA	NA	OVR	OVR	5.0	9.0	190	315000	125000	190000	
SVE-12	2/2/2012	1015	NA	NA	NA	OVR	OVR	4.5	10.0	200	400000	146000	254000	
SVE-12	2/7/2012	1017	-3.15	NA	NA	0.5	11.0	0.2	20.8	78.2	814	240	574	
SVE-12	2/15/2012	1017	NA	NA	NA	OVR	OVR	2.2	15.4	224	78900	48300	30600	
SVE-12	2/22/2012	1444	-2.46	NA	NA	OVR	OVR	2.5	14.9	291	83400	53200	30200	
SVE-12	2/29/2012	1029	-2.61	NA	NA	OVR	OVR	4.0	11.6	288	239000	78410	160590	
SVE-12	3/21/2012	925	-1.55	NA	NA	1.5	31.0	0.2	20.7	115	2990	1360	1630	
SVE-12	4/18/2012	1110	-2.66	0.13	20.69	61.0	OVR	1.2	18.1	395	22000	7330	14670	
SVE-12	5/16/2012	1238	-2.84	1.32	NE	50.0	OVR	1.0	18.1	372	14200	9200	5000	
SVE-12	6/20/2012	842	-3.23	0.00	22.54	OVR	OVR	3.6	12.8	369	62500	17200	45300	
SVE-12	7/18/2012	756	-3.03	0.01	22.68	OVR	OVR	4.3	12.1	238	110000	15500	94500	
SVE-12	8/15/2012	1116	-3.23	0.00	NA	OVR	OVR	5.3	10.8	319	90200	14100	76100	
SVE-12	9/19/2012	1013	-5.31	NA	22.70	OVR	OVR	5.9	10.4	381	84800	15700	69100	
SVE-12	10/17/2012	1251	-7.01	0.00	22.71	OVR	OVR	7.6	7.6	399	135000	18100	116900	
SVE-12	11/20/2012	1006	-4.98	0.10	22.74	OVR	OVR	7.3	6.2	373	134000	14600	119400	
SVE-12	12/19/2012	1120	-3.02	NA	22.69	OVR	OVR	6.1	7.9	625	121000	10900	110100	
SVE-13	2/2/2012	1350	NA	NA	NA	OVR	OVR	13.3	2.3	395	61400	29300	32100	
SVE-13	2/3/2012	757	-3.55	NA	NA	OVR	OVR	12.2	2.5	330	104000	43600	60400	
SVE-13	2/7/2012	1028	-2.32	NA	NA	OVR	OVR	10.1	3.1	284	222000	48500	173500	
SVE-13	2/15/2012	1043	-2.40	NA	NA	OVR	OVR	7.5	9.5	375	87700	20000	67700	
SVE-13	2/22/2012	1502	-1.95	NA	NA	OVR	OVR	7.1	8.4	396	87380	51590	35790	
SVE-13	2/29/2012	1056	-1.63	NA	NA	OVR	OVR	7.1	7.8	419	100000	37160	62840	
SVE-13	3/21/2012	941	-1.58	NA	NA	9.6	OVR	3.5	15.6	675	6100	154	5946	
SVE-13	4/18/2012	1129	-2.14	0.07	22.72	OVR	OVR	6.5	10.1	558	35500	10500	25000	
SVE-13	5/16/2012	1310	-2.27	0.00	NE	OVR	OVR	6.2	11.0	675	24300	6600	17700	
SVE-13	6/20/2012	905	-2.46	0.01	22.79	82.1	OVR	7.3	2.5	575	19200	4300	14900	
SVE-13	7/18/2012	828	-2.51	0.03	22.72	53.3	OVR	7.0	11.4	590	15300	3200	12100	
SVE-13	8/15/2012	1100	-2.56	0.01	NA	52.4	OVR	6.9	11.7	576	13280	2960	10320	
SVE-13	9/19/2012	1029	-4.06	NA	22.72	33.5	OVR	6.2	13.1	766	9260	1510	7750	
SVE-13	10/17/2012	1301	-4.34	0.00	22.73	22.1	OVR	6.7	12.4	759	8150	210	7940	
SVE-13	11/20/2012	1018	-3.94	0.01	22.75	11.9	OVR	6.3	12.6	658	4650	1050	3600	
SVE-13	12/19/2012	1135	-2.52	NA	22.72	6.4	OVR	6.3	12.8	620	5000	560	4440	
SVE-14	2/2/2012	1358	NA	NA	NA	OVR	OVR	12.1	1.5	259	221000	86200	134800	
SVE-14	2/3/2012	807	-3.53	NA	NA	OVR	OVR	11.9	1.6	230	230000	90000	140000	
SVE-14	2/7/2012	1040	-2.32	NA	NA	OVR	OVR	12.0	1.7	259	123000	64400	58600	
SVE-14	2/15/2012	1105	-2.40	NA	NA	OVR	OVR	10.7	3.4	291	129000	51000	78000	
SVE-14	2/22/2012	1514	-2.20	NA	NA	OVR	OVR	10.1	3.6	396	90500	54560	35940	
SVE-14	2/29/2012	1111	-1.66	NA	NA	OVR	OVR	10.1	3.1	423	89400	29690	59710	
SVE-14	3/21/2012	954	-1.56	NA	NA	12.2	OVR	6.6	8.9	658	5490	477	5013	
SVE-14	4/18/2012	1146	-2.11	0.48	22.41	OVR	OVR	9.7	3.4	515	51800	19200	32600	
SVE-14	5/16/2012	1328	-2.52	0.01	NE	OVR	OVR	9.5	6.6	575	16700	7800	8900	
SVE-14	6/20/2012	1025	-2.35	0.01	22.45	OVR	OVR	10.0	5.1	559	26600	11300	15300	
SVE-14	7/18/2012	852	-2.49	0.02	22.41	78.9	OVR	10.2	6.4	425	24200	8300	15900	
SVE-14	8/15/2012	1043	-2.57	0.01	NA	78.9	OVR	10.4	7.2	461	15600	8200	7400	
SVE-14	9/19/2012	1040	-4.07	NA	22.40	68.1	OVR	9.9	8.2	585	18400	8300	10100	
SVE-14	10/17/2012	1313	-4.34	0.00	22.42	61.5	OVR	9.9	8.2	617	18500	7500	11000	
SVE-14	11/20/2012	1030	-3.88	0.01	22.45	36.8	OVR	9.2	9.1	563	11700	6200	5500	
SVE-14	12/19/2012	1150	-2.53	NA	22.42	26.8	OVR	9.4	9.0	655	10800	4800	6000	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-15	2/2/2012	1416	NA	NA	NA	OVR	OVR	12.2	2.6	327	61600	47200	14400	
SVE-15	2/3/2012	817	-3.55	NA	NA	OVR	OVR	10.9	4.5	305	92300	55000	37300	
SVE-15	2/7/2012	1047	-2.34	NA	NA	OVR	OVR	10.0	5.1	294	65300	35900	29400	
SVE-15	2/15/2012	1112	-2.33	NA	NA	OVR	OVR	9.2	6.7	364	68900	34250	34650	
SVE-15	2/22/2012	1325	-2.41	NA	NA	OVR	OVR	9.0	5.8	471	55700	30670	25030	
SVE-15	2/29/2012	1329	-1.30	NA	NA	OVR	OVR	9.9	5.9	420	50000	24200	25800	
SVE-15	3/21/2012	959	-1.54	NA	NA	OVR	OVR	8.8	5.8	433	60500	22800	37700	
SVE-15	4/18/2012	1155	-2.11	0.03	NE	OVR	OVR	8.7	5.5	555	36000	11400	24600	
SVE-15	5/16/2012	1335	-2.28	0.01	NE	83.7	OVR	8.7	7.4	660	13900	6100	7800	
SVE-15	6/20/2012	1033	-2.29	0.00	NE	80.3	OVR	9.0	7.3	640	17280	6260	11020	
SVE-15	7/18/2012	859	-2.49	0.13	NE	62.2	OVR	9.2	7.8	475	15700	6200	9500	
SVE-15	8/15/2012	1038	-2.61	0.00	NA	73.6	OVR	9.6	8.1	501	18300	7600	10700	
SVE-15	9/19/2012	1045	-4.05	NA	22.97	59.7	OVR	8.9	9.7	664	15400	5470	9930	
SVE-15	10/17/2012	1319	-4.38	0.00	NE	56.9	OVR	9.2	8.9	720	17100	3930	13170	
SVE-15	11/20/2012	1037	-3.92	0.55	22.97	37.4	OVR	8.1	10.1	651	7400	4050	3350	
SVE-15	12/19/2012	1155	-2.56	NA	NE	33.9	OVR	8.4	10.0	770	12100	5200	6900	
SVE-16	2/2/2012	1407	NA	NA	NA	OVR	OVR	12.4	1.3	381	222000	72500	149500	
SVE-16	2/3/2012	823	-3.59	NA	NA	OVR	OVR	12.8	1.0	364	153000	67000	86000	
SVE-16	2/7/2012	1057	-2.41	NA	NA	OVR	OVR	12.8	1.4	376	86300	55900	30400	
SVE-16	2/15/2012	1119	-2.29	NA	NA	OVR	OVR	12.1	1.7	417	114000	51000	63000	
SVE-16	2/22/2012	1543	-2.09	NA	NA	OVR	OVR	11.3	2.2	480	114000	55800	58200	
SVE-16	2/29/2012	1338	-1.15	NA	NA	OVR	OVR	11.8	2.0	390	92200	49300	42900	
SVE-16	3/21/2012	1003	-1.43	NA	NA	OVR	OVR	11.2	1.6	539	82500	19000	63500	
SVE-16	4/18/2012	1204	-2.13	1.29	22.92	OVR	OVR	11.0	1.7	510	72100	32300	39800	
SVE-16	5/16/2012	1342	-2.29	0.01	NE	OVR	OVR	11.2	2.2	472	59500	35700	23800	
SVE-16	6/20/2012	1040	-2.32	0.00	22.98	OVR	OVR	11.6	2.2	463	48200	35000	13200	
SVE-16	7/18/2012	909	-2.51	0.08	22.91	OVR	OVR	11.4	4.0	270	38600	24800	13800	
SVE-16	8/15/2012	1031	-2.65	0.00	NA	OVR	OVR	11.4	5.1	367	44000	21500	22500	
SVE-16	9/19/2012	1050	-4.15	NA	22.93	OVR	OVR	11.1	5.8	492	39400	21600	17800	
SVE-16	10/17/2012	1325	-4.46	0.00	22.92	82.6	OVR	11.0	6.2	509	33400	27200	6200	
SVE-16	11/20/2012	1044	-3.86	0.48	22.95	50.3	OVR	10.6	6.4	465	23600	3500	20100	
SVE-16	12/19/2012	1245	-2.52	NA	22.92	39.8	OVR	11.1	5.8	555	21400	13700	7700	
SVE-17	2/6/2012	1405	-2.61	NA	NA	OVR	OVR	13.7	2.6	357	129000	54100	74900	
SVE-17	2/7/2012	1100	-2.50	NA	NA	OVR	OVR	12.5	3.5	364	50000	41800	8200	
SVE-17	2/8/2012	930	-2.85	NA	NA	OVR	OVR	11.0	4.4	376	65000	29900	35100	
SVE-17	2/15/2012	1126	-2.29	NA	NA	OVR	OVR	9.4	6.4	321	65000	51200	13800	
SVE-17	2/22/2012	1552	-2.17	NA	NA	OVR	OVR	8.7	7.0	306	102000	73270	28730	
SVE-17	2/29/2012	1346	-1.16	NA	NA	OVR	OVR	9.2	6.9	242	91500	66300	25200	
SVE-17	3/21/2012	1008	-1.32	NA	NA	5.5	OVR	9.2	2.1	345	13390	7600	5790	
SVE-17	4/18/2012	1216	-2.20	1.48	22.62	OVR	OVR	7.6	8.4	285	70500	50000	20500	
SVE-17	5/16/2012	1352	-2.37	0.03	NE	OVR	OVR	7.4	9.0	300	71300	47900	23400	
SVE-17	6/20/2012	1047	-2.41	0.01	22.62	OVR	OVR	7.6	8.7	324	64000	36500	27500	
SVE-17	7/18/2012	922	-2.61	0.01	22.59	84.1	OVR	7.7	9.1	250	38900	17400	21500	
SVE-17	8/15/2012	1021	-2.78	0.01	NA	82.4	OVR	8.1	9.4	373	25800	12800	13000	
SVE-17	9/19/2012	1056	-4.30	NA	22.56	72.5	OVR	7.6	10.4	533	22400	10600	11800	
SVE-17	10/17/2012	1330	-4.72	0.00	22.55	64.0	OVR	8.2	10.0	602	19100	8400	10700	
SVE-17	11/20/2012	1057	-3.95	0.04	22.56	40.5	OVR	7.4	11.0	555	12100	7100	5000	
SVE-17	12/19/2012	1350	-2.58	NA	22.51	35.0	OVR	7.8	10.7	690	14200	6300	7900	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-18	2/6/2012	1420	-2.77	NA	21.03	OVR	OVR	12.3	2.8	232	215000	105000	110000	
SVE-18	2/7/2012	1108	-2.69	NA	NA	OVR	OVR	11.8	4.5	209	79900	67200	12700	
SVE-18	2/8/2012	1000	-2.81	NA	20.99	OVR	OVR	11.3	4.8	226	100000	53610	46390	
SVE-18	2/15/2012	1132	-2.45	NA	NA	OVR	OVR	9.6	7.2	185	121000	83600	37400	
SVE-18	2/22/2012	1559	-2.32	NA	NA	OVR	OVR	9.3	6.9	154	180000	132000	48000	
SVE-18	2/29/2012	1354	-1.33	NA	NA	OVR	OVR	10.0	6.8	123	140000	109000	31000	
SVE-18	3/21/2012	1013	-1.31	NA	NA	2.1	43.0	9.4	5.2	237	4100	2560	1540	
SVE-18	4/18/2012	1228	-2.31	0.12	20.81	OVR	OVR	7.5	8.0	177	95400	69500	25900	
SVE-18	5/16/2012	1358	-2.51	0.03	NE	OVR	OVR	6.6	10.0	187	59200	52400	6800	
SVE-18	6/20/2012	1054	-2.54	0.01	20.86	OVR	OVR	6.5	10.4	203	68300	41200	27100	
SVE-18	7/18/2012	930	-2.79	0.00	20.81	69.2	OVR	6.2	11.2	222	36200	23200	13000	
SVE-18	8/15/2012	1013	-3.00	-0.01	NA	58.3	OVR	6.5	12.5	388	18900	11600	7300	
SVE-18	9/19/2012	1101	-4.72	NA	20.82	33.4	OVR	5.5	13.1	561	12300	4100	8200	
SVE-18	10/17/2012	1336	-5.17	0.00	20.89	27.5	OVR	6.0	12.6	612	10400	3000	7400	
SVE-18	11/20/2012	1101	-4.33	0.01	20.62	12.5	OVR	5.3	13.9	576	3700	1100	2600	
SVE-18	12/19/2012	1400	-2.73	NA	20.74	10.8	OVR	6.4	12.4	636	4900	1000	3900	
SVE-19	2/6/2012	1428	-0.76	NA	23.75	75.3	OVR	12.2	1.3	81.2	262000	169000	93000	
SVE-19	2/7/2012	1113	-2.93	NA	NA	84.6	OVR	12.7	0.6	86.8	116000	84200	31800	
SVE-19	2/8/2012	1009	-3.36	NA	23.85	64.7	OVR	11.7	2.9	100	120000	89300	30700	
SVE-19	2/15/2012	1139	-2.65	NA	NA	74.9	OVR	11.8	2.9	98.2	100000	84000	16000	
SVE-19	2/22/2012	1609	-2.51	NA	NA	OVR	OVR	11.2	3.4	100	190000	155000	35000	
SVE-19	2/29/2012	1403	-1.38	NA	NA	84.5	OVR	11.8	3.5	79.5	158000	110000	48000	
SVE-19	3/21/2012	1018	-1.36	NA	NA	0.1	3.0	8.4	6.3	25.5	1220	1000	220	
SVE-19	4/18/2012	1237	-2.50	1.91	23.76	47.2	OVR	8.2	6.2	95.0	91000	73200	17800	
SVE-19	5/16/2012	1405	-2.72	0.03	NE	47.1	OVR	7.5	8.8	82.0	28700	10100	18600	
SVE-19	6/20/2012	1101	-2.82	NA	23.58	35.8	OVR	6.5	10.8	71.4	56200	52000	4200	
SVE-19	7/18/2012	939	-3.05	0.01	23.73	41.1	OVR	7.4	10.1	67.3	55400	41100	14300	
SVE-19	8/15/2012	1005	-3.33	0.00	NA	34.2	OVR	7.2	11.2	150	35300	27400	7900	
SVE-19	9/19/2012	1107	-5.33	NA	23.73	16.1	OVR	5.9	12.5	262	13400	9500	3900	
SVE-19	10/17/2012	1342	-5.83	0.00	23.75	14.4	OVR	6.4	12.3	280	13900	6300	7600	
SVE-19	11/20/2012	1106	-4.79	0.00	23.76	2.1	42.0	4.0	14.7	233	2800	1300	1500	
SVE-19	12/19/2012	1405	-2.97	NA	23.74	4.0	80.0	5.4	12.9	278	6400	3800	2600	
SVE-20	2/23/2012	953	-3.17	NA	NA	OVR	OVR	12.7	1.0	77.5	1000000	1000000	0.0	
SVE-20	2/29/2012	1419	-3.74	NA	NA	OVR	OVR	12.7	1.1	70.3	1000000	920000	80000	
SVE-20	3/1/2012	1500	-1.08	NA	NA	OVR	OVR	12.6	1.1	102	921000	841000	80000	
SVE-20	3/2/2012	1054	-1.51	NA	NA	OVR	OVR	12.5	1.2	84.7	1000000	955000	45000	Benzene Reading: 38.2 ppm
SVE-20	3/6/2012	1138	-0.20	NA	NA	OVR	OVR	7.2	7.4	69.0	858000	486000	372000	Benzene Reading: 30.0 ppm
SVE-20	3/7/2012	855	-0.11	NA	NA	OVR	OVR	9.7	4.3	65.7	742000	261000	481000	Benzene Reading: 24.9 ppm
SVE-20	3/21/2012	1027	-2.21	NA	NA	OVR	OVR	11.6	0.4	98.5	770000	373000	397000	
SVE-20	4/18/2012	1256	-3.19	0.52	37.92	OVR	OVR	10.4	2.7	92.8	602000	376000	226000	
SVE-20	5/16/2012	1413	-3.42	0.03	NE	OVR	OVR	10.1	4.4	106	390000	270000	120000	
SVE-20	6/20/2012	1107	-3.57	0.01	37.95	OVR	OVR	10.2	4.6	105	210000	198000	12000	
SVE-20	7/18/2012	1002	-3.95	0.02	37.87	OVR	OVR	9.8	5.8	60.5	229000	146000	83000	
SVE-20	8/15/2012	955	-4.47	-0.99	NA	OVR	OVR	11.0	4.6	115	125000	102000	23000	
SVE-20	9/19/2012	1113	-7.67	NA	37.90	OVR	OVR	10.5	6.6	136	200000	160000	40000	
SVE-20	10/17/2012	1348	-7.12	0.00	37.88	OVR	OVR	10.8	7.4	141	248000	212000	36000	
SVE-20	11/20/2012	1112	-13.54	-0.21	37.85	OVR	OVR	9.1	8.6	175	104000	94000	10000	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-20	12/19/2012	1420	-3.02	NA	37.89	OVR	OVR	11.3	4.5	195	230000	145000	85000	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-25	2/1/2012	1545	NA	NA	NA	OVR	OVR	8.0	6.4	182	165000	83100	81900	
SVE-25	2/2/2012	845	NA	NA	NA	OVR	OVR	7.3	7.3	195	180000	61000	119000	
SVE-25	2/7/2012	1408	-2.88	NA	NA	OVR	OVR	8.4	6.6	217	125000	72000	53000	
SVE-25	2/15/2012	1403	-2.50	NA	NA	34.9	OVR	7.2	9.8	425	15950	6800	9150	
SVE-25	2/17/2012	1025	-2.66	NA	NA	14.3	OVR	6.2	12.5	445	6250	2600	3650	
SVE-25	2/22/2012	1620	-2.43	NA	NA	11.6	OVR	5.7	12.8	424	8180	2990	5190	
SVE-25	2/29/2012	821	-1.96	NA	NA	16.8	OVR	6.8	11.4	431	8470	2770	5700	
SVE-25	3/21/2012	1412	-1.15	NA	NA	9.7	OVR	6.0	12.0	342	3960	1810	2150	
SVE-25	4/18/2012	1545	-2.26	NA	NA	16.2	OVR	5.7	11.8	348	8200	2950	5250	
SVE-25	5/16/2012	1518	-3.09	NA	NA	5.7	OVR	4.8	14.6	305	4750	2250	2500	
SVE-25	6/20/2012	1418	-0.69	0.00	NE	0.0	0.0	0.8	20.0	2.0	7.0	0.0	7.0	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-25	7/18/2012	1109	-2.64	0.01	NE	1.8	38.0	3.4	15.9	183	2490	690	1800	
SVE-25	8/15/2012	1432	-2.79	NA	NA	1.7	35.0	3.6	16.0	190	1930	510	1420	
SVE-25	9/19/2012	810	-4.58	NA	NE	3.7	75.0	4.0	15.5	331	4280	1110	3170	
SVE-25	10/17/2012	1438	-0.47	NA	NE	0.0	0.0	1.3	19.2	2.4	10.7	3.5	7.2	Water present in SVE vault.
SVE-25	11/20/2012	1208	-1.28	NA	NE	0.0	0.0	0.3	20.6	3.0	8.4	2.8	5.7	Vacuum would not stabilize during sampling. Highest value observed is listed.
SVE-25	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Vehicle parked on well. Could not access.
SVE-28	2/20/2012	935	-2.45	NA	NA	55.9	OVR	0.4	20.0	99.0	80000	28500	51500	
SVE-28	2/21/2012	1036	-2.73	NA	NA	0.9	18.0	0.1	20.9	150	1462	410	1052	
SVE-28	2/22/2012	957	-1.80	NA	NA	0.0	0.0	0.1	20.8	18.0	98.0	31.1	66.9	
SVE-28	2/29/2012	843	-1.73	NA	NA	0.2	5.0	0.1	20.9	19.7	533	133	400	
SVE-28	3/21/2012	829	-1.47	NA	NA	0.1	3.0	0.1	20.9	23.6	231	61.0	170	
SVE-28	4/18/2012	919	-2.27	0.60	42.62	4.1	83.0	0.0	20.9	47.5	7350	4920	2430	
SVE-28	5/16/2012	1100	-2.50	1.80	42.80	0.1	2.0	0.0	20.9	4.0	63.9	31.5	32.4	
SVE-28	6/20/2012	705	-2.55	0.01	42.81	10.4	OVR	0.1	20.6	51.7	11000	6550	4450	
SVE-28	7/18/2012	610	-2.68	0.00	42.83	1.7	34.0	0.0	20.9	40.4	4720	3100	1620	
SVE-28	8/15/2012	1334	-2.39	0.00	NA	1.8	38.0	0.4	20.2	153	2450	1470	980	
SVE-28	9/19/2012	912	-3.92	NA	44.51	0.8	17.0	7.3	8.7	69.6	2560	1130	1430	
SVE-28	10/17/2012	1020	-4.11	0.00	44.42	0.5	10.0	5.8	10.4	32.7	850	590	260	
SVE-28	11/20/2012	905	-3.73	0.19	44.66	0.3	7.0	5.5	11.3	39.0	905	450	455	
SVE-28	12/19/2012	945	-2.59	NA	45.32	1.7	34.0	7.2	10.2	81.1	2600	1300	1300	
SVE-29	2/20/2012	945	-2.50	NA	NA	OVR	OVR	9.4	1.6	135	643000	225000	418000	
SVE-29	2/21/2012	1047	-2.76	NA	NA	OVR	OVR	9.1	1.3	148	564000	347000	217000	
SVE-29	2/22/2012	1023	-1.85	NA	NA	OVR	OVR	8.6	2.6	140	450000	149000	301000	
SVE-29	2/29/2012	902	-1.70	NA	NA	OVR	OVR	8.4	2.1	148	460000	100000	360000	
SVE-29	3/21/2012	838	-1.59	NA	NA	OVR	OVR	7.9	2.8	133	396000	247000	149000	
SVE-29	4/18/2012	942	-2.31	0.08	33.53	OVR	OVR	6.9	4.6	168	221000	103000	118000	
SVE-29	5/16/2012	1122	-2.47	0.28	NA	OVR	OVR	8.6	1.9	138	283000	129000	154000	
SVE-29	6/20/2012	727	-2.61	0.01	33.59	OVR	OVR	7.5	5.5	140	102000	100000	2000	
SVE-29	7/18/2012	632	-2.73	0.04	33.51	OVR	OVR	6.6	7.2	90.0	175000	88200	86800	
SVE-29	8/15/2012	1252	-2.45	0.00	NA	OVR	OVR	6.9	8.2	108	91800	57500	34300	
SVE-29	9/19/2012	923	-3.94	NA	33.54	OVR	OVR	7.3	8.3	245	74460	34300	40160	
SVE-29	10/17/2012	1032	-4.10	0.00	33.54	OVR	OVR	8.4	6.5	203	122000	61500	60500	
SVE-29	11/20/2012	917	-3.75	0.07	33.59	OVR	OVR	11.3	2.5	215	108000	64600	43400	
SVE-29	12/19/2012	955	-2.64	NA	33.56	OVR	OVR	12.5	1.3	255	132000	71100	60900	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-30	2/20/2012	955	-2.38	NA	NA	OVR	OVR	6.4	1.4	116	1000000	384000	616000	
SVE-30	2/21/2012	1057	-2.72	NA	NA	OVR	OVR	6.0	2.9	129	1000000	455000	545000	
SVE-30	2/22/2012	1046	-1.81	NA	NA	OVR	OVR	6.6	1.4	116	1000000	425000	575000	
SVE-30	2/29/2012	918	-1.03	NA	NA	12.4	OVR	0.1	20.9	634	3630	434	3196	
SVE-30	3/21/2012	849	-1.43	NA	NA	OVR	OVR	4.7	6.3	89.3	1000000	590000	410000	
SVE-30	4/18/2012	1001	-2.23	1.52	37.78	OVR	OVR	6.2	1.7	102	1000000	425000	575000	
SVE-30	5/16/2012	1141	-2.48	2.09	NA	OVR	OVR	6.6	1.6	110	1000000	419000	581000	
SVE-30	6/20/2012	743	-2.58	0.00	0.00	OVR	OVR	7.1	0.5	120	353000	201000	152000	
SVE-30	7/18/2012	649	-2.71	0.05	37.81	OVR	OVR	6.9	1.2	59.2	1000000	300000	700000	
SVE-30	8/15/2012	1221	-2.52	0.00	NA	OVR	OVR	7.5	1.1	120	927000	180000	747000	
SVE-30	9/19/2012	934	-3.92	NA	0.00	OVR	OVR	7.8	1.8	148	628000	211000	417000	
SVE-30	10/17/2012	1042	-4.01	0.00	37.80	OVR	OVR	8.4	1.9	156	619000	174000	445000	
SVE-30	11/20/2012	929	-3.68	0.00	37.90	OVR	OVR	9.4	1.0	184	709000	282000	427000	
SVE-30	12/19/2012	1025	-2.73	NA	37.79	OVR	OVR	9.5	1.0	199	690000	224000	466000	
SVE-31	2/10/2012	1405	-2.27	NA	NA	OVR	OVR	5.9	1.5	75.2	1000000	1000000	0.0	
SVE-31	2/13/2012	857	-2.58	NA	NA	OVR	OVR	5.8	1.0	92.4	1000000	810000	190000	
SVE-31	2/15/2012	910	-2.32	NA	NA	OVR	OVR	6.3	1.4	100	1000000	612000	388000	
SVE-31	2/22/2012	1114	-1.84	NA	NA	OVR	OVR	6.5	2.7	142	1000000	688000	312000	
SVE-31	2/29/2012	934	-1.33	NA	NA	OVR	OVR	4.5	9.3	187	519000	120000	399000	
SVE-31	3/21/2012	900	-1.43	NA	NA	OVR	OVR	7.8	0.8	160	1000000	1000000	0.0	
SVE-31	4/18/2012	1018	-2.18	0.12	37.72	OVR	OVR	8.3	0.8	215	790000	220000	570000	
SVE-31	5/16/2012	1158	-2.45	0.31	0.00	OVR	OVR	8.8	2.6	265	834000	185000	649000	
SVE-31	6/20/2012	757	-2.58	0.00	37.77	OVR	OVR	7.6	5.5	268	209000	61300	147700	
SVE-31	7/18/2012	704	-2.71	0.02	37.68	OVR	OVR	8.1	5.0	110	275000	125000	150000	
SVE-31	8/15/2012	1207	-2.57	0.00	NA	OVR	OVR	9.2	4.1	206	273000	86000	187000	
SVE-31	9/19/2012	943	-3.92	NA	37.65	OVR	OVR	8.2	4.7	236	322000	116000	206000	
SVE-31	10/17/2012	1053	-4.03	0.00	37.64	OVR	OVR	6.5	9.5	272	221000	82400	138600	
SVE-31	11/20/2012	939	-3.67	0.01	37.35	OVR	OVR	9.3	5.4	333	159000	46000	113000	
SVE-31	12/19/2012	1045	-2.70	NA	37.25	OVR	OVR	11.2	2.7	472	129000	44300	84700	
SVE-32	2/10/2012	1356	-2.29	NA	37.81	OVR	OVR	6.3	1.0	102	1000000	845000	155000	
SVE-32	2/13/2012	905	-2.59	NA	NA	OVR	OVR	6.1	1.5	105	1000000	882000	118000	
SVE-32	2/15/2012	945	-2.51	NA	NA	OVR	OVR	6.2	1.8	103	1000000	855000	145000	
SVE-32	2/22/2012	1134	-1.80	NA	NA	OVR	OVR	6.7	1.4	111	1000000	797000	203000	
SVE-32	2/29/2012	952	-1.37	NA	NA	OVR	OVR	6.9	1.7	99.0	1000000	549000	451000	
SVE-32	3/21/2012	910	-1.44	NA	NA	OVR	OVR	7.3	0.9	104	1000000	1000000	0.0	
SVE-32	4/18/2012	1039	-2.10	0.44	NE	OVR	OVR	7.2	1.2	115	1000000	668000	332000	
SVE-32	5/16/2012	1214	-2.34	0.00	NE	OVR	OVR	8.0	1.6	135	1000000	525000	475000	
SVE-32	6/20/2012	812	-2.63	0.00	37.82	OVR	OVR	9.0	0.8	151	973000	167000	806000	
SVE-32	7/18/2012	723	-2.69	0.01	37.77	OVR	OVR	8.6	1.7	65.6	980000	240000	740000	
SVE-32	8/15/2012	1151	-2.61	0.08	NA	OVR	OVR	9.5	1.5	141	447000	171000	276000	
SVE-32	9/19/2012	953	-3.95	NA	37.80	OVR	OVR	8.8	3.7	163	748000	224000	524000	
SVE-32	10/17/2012	1157	-4.17	0.00	37.74	OVR	OVR	9.1	3.8	159	911000	262000	649000	
SVE-32	11/20/2012	949	-3.69	0.01	37.76	OVR	OVR	8.9	4.6	198	440000	204000	236000	
SVE-32	12/19/2012	1059	-2.53	NA	37.74	OVR	OVR	9.6	4.1	250	495000	118000	377000	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-33	2/10/2012	1351	-2.30	NA	37.73	OVR	OVR	8.6	1.5	204	1000000	118000	882000	
SVE-33	2/13/2012	917	-2.59	NA	NA	OVR	OVR	8.5	1.0	212	1000000	146000	854000	
SVE-33	2/15/2012	1005	-2.44	NA	NA	OVR	OVR	8.5	1.7	210	990000	193000	797000	
SVE-33	2/22/2012	1428	-1.91	NA	NA	OVR	OVR	7.6	1.6	169	1000000	690000	310000	
SVE-33	2/29/2012	1011	-1.33	NA	NA	OVR	OVR	7.4	1.3	142	1000000	283000	717000	
SVE-33	3/21/2012	920	-1.41	NA	NA	OVR	OVR	7.4	1.0	144	1000000	1000000	0.0	
SVE-33	4/18/2012	1101	-2.18	0.15	37.59	OVR	OVR	6.8	0.8	148	1000000	542000	458000	
SVE-33	5/16/2012	1234	-2.43	1.11	0.00	OVR	OVR	7.7	0.9	165	1000000	420000	580000	
SVE-33	6/20/2012	835	-2.62	0.00	37.67	OVR	OVR	8.6	0.2	165	1000000	404000	596000	
SVE-33	7/18/2012	744	-2.74	0.01	37.60	OVR	OVR	8.4	1.2	77.1	1000000	375000	625000	
SVE-33	8/15/2012	1128	-2.72	0.01	NA	OVR	OVR	9.2	1.9	154	374000	144000	230000	
SVE-33	9/19/2012	1007	-4.35	NA	37.61	OVR	OVR	8.6	5.6	191	509000	175000	334000	
SVE-33	10/17/2012	1245	-4.33	0.00	37.59	OVR	OVR	7.8	7.6	218	506000	159000	347000	
SVE-33	11/20/2012	1002	-3.87	0.01	37.65	OVR	OVR	7.3	7.7	229	218000	125000	93000	
SVE-33	12/19/2012	1115	-2.66	NA	37.58	OVR	OVR	7.7	8.1	322	340000	128000	212000	
SVE-34	2/13/2012	1331	-2.17	NA	NA	OVR	OVR	10.2	1.0	320	290000	80000	210000	
SVE-34	2/14/2012	1552	-2.85	NA	NA	OVR	OVR	10.1	1.4	286	290000	63000	227000	
SVE-34	2/15/2012	1032	-2.71	NA	NA	OVR	OVR	9.9	1.3	298	540000	80400	459600	
SVE-34	2/22/2012	1455	-2.17	NA	NA	OVR	OVR	9.5	2.3	269	840000	166000	674000	
SVE-34	2/29/2012	1048	-1.25	NA	NA	OVR	OVR	9.5	2.0	261	333000	120000	213000	
SVE-34	3/21/2012	930	-1.44	NA	NA	OVR	OVR	9.1	1.9	238	379000	100000	279000	
SVE-34	4/18/2012	1119	-2.38	0.99	44.77	OVR	OVR	8.8	1.5	280	275000	98000	177000	
SVE-34	5/16/2012	1248	-2.55	0.00	44.85	OVR	OVR	9.2	2.4	300	268000	110000	158000	
SVE-34	6/20/2012	857	-2.81	0.00	44.81	OVR	OVR	8.9	4.4	226	172000	70000	102000	
SVE-34	7/18/2012	812	-2.94	0.01	44.82	OVR	OVR	7.9	7.0	110	243000	115000	128000	
SVE-34	8/15/2012	1107	-2.98	0.02	NA	OVR	OVR	8.2	7.1	212	123000	73000	50000	
SVE-34	9/19/2012	1024	-4.65	NA	46.32	OVR	OVR	7.2	9.4	276	145000	56600	88400	
SVE-34	10/17/2012	1256	-4.77	0.00	46.29	OVR	OVR	7.5	9.4	282	161000	62800	98200	
SVE-34	11/20/2012	1012	-4.08	0.01	46.65	OVR	OVR	7.3	9.9	313	80400	60200	20200	
SVE-34	12/19/2012	1130	-2.65	NA	47.16	OVR	OVR	7.5	9.8	435	102000	48500	53500	
SVE-35	2/13/2012	1337	-2.27	NA	NA	OVR	OVR	12.3	1.0	355	96800	46000	50800	
SVE-35	2/14/2012	1600	-2.82	NA	NA	OVR	OVR	12.2	1.5	246	136000	69400	66600	
SVE-35	2/15/2012	1054	-2.77	NA	NA	OVR	OVR	12.0	1.4	228	102000	68400	33600	
SVE-35	2/22/2012	1509	-2.27	NA	NA	OVR	OVR	11.4	1.6	241	171000	110000	61000	
SVE-35	2/29/2012	1104	-1.52	NA	NA	OVR	OVR	11.1	1.9	258	175000	62700	112300	
SVE-35	3/21/2012	947	-1.42	NA	NA	OVR	OVR	11.3	0.7	321	69700	53800	15900	
SVE-35	4/18/2012	1137	-2.35	1.37	42.82	OVR	OVR	10.3	3.1	320	52800	28400	24400	
SVE-35	5/16/2012	1319	-2.55	0.01	42.90	85.3	OVR	9.7	4.9	395	29700	15100	14600	
SVE-35	6/20/2012	1015	-2.67	0.01	42.91	59.6	OVR	9.2	6.7	405	16700	9800	6900	
SVE-35	7/18/2012	837	-2.95	0.11	42.94	35.0	OVR	8.3	8.8	401	17000	6500	10500	
SVE-35	8/15/2012	1051	-3.05	0.00	NA	35.9	OVR	8.4	9.5	394	12800	5100	7700	
SVE-35	9/19/2012	1034	-4.76	NA	44.34	27.8	OVR	8.2	10.4	525	9600	4100	5500	
SVE-35	10/17/2012	1308	-4.88	0.00	44.26	17.5	OVR	7.6	11.8	521	9200	1900	7300	
SVE-35	11/20/2012	1024	-4.14	0.01	44.24	10.2	OVR	7.2	11.7	431	5600	2000	3600	
SVE-35	12/19/2012	1140	-2.67	NA	44.20	4.2	84.0	7.4	12.0	440	3300	1300	2000	

TABLE 8
SVE SYSTEM MONTHLY MONITORING - SVE SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure	Air Flow	Groundwater	Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Flow Rate (Inches of H20)	Depth to Water (feet)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
SVE-36	2/6/2012	1438	-3.05	NA	22.83	75.8	OVR	13.9	0.5	117	160000	105000	55000	
SVE-36	2/7/2012	1121	-3.12	NA	NA	76.9	OVR	13.7	1.0	111	96800	91470	5330	
SVE-36	2/8/2012	1022	-3.35	NA	23.60	68.7	OVR	12.5	2.2	117	93940	89730	4210	
SVE-36	2/15/2012	1151	-2.77	NA	NA	74.5	OVR	10.5	4.9	100	120000	93480	26520	
SVE-36	2/22/2012	1618	-2.67	NA	NA	84.2	OVR	10.2	5.4	84.4	200000	183000	17000	
SVE-36	2/29/2012	1411	-1.35	NA	NA	80.9	OVR	10.5	5.5	82.1	120000	97000	23000	
SVE-36	3/21/2012	1022	-1.41	NA	NA	16.4	OVR	6.5	10.1	302	22450	13800	8650	
SVE-36	4/18/2012	1246	-2.64	2.08	22.81	8.4	OVR	6.6	10.4	348	9280	5700	3580	
SVE-36	5/16/2012	1420	-2.88	0.03	0.00	3.8	76.0	6.4	11.8	320	1900	1500	400	
SVE-36	6/20/2012	1115	-2.89	0.05	22.89	1.2	25.0	5.7	12.6	225	2300	572	1728	
SVE-36	7/18/2012	954	-3.24	0.01	22.81	0.6	12.0	5.3	13.6	227	910	100	810	
SVE-36	8/16/2012	1020	-3.51	NA	NA	0.5	12.0	4.8	15.4	243	967	90.0	877	
SVE-36	9/19/2012	1118	-5.77	NA	NE	0.3	13.0	3.2	17.1	235	891	82.0	809	
SVE-36	10/17/2012	1354	-6.39	0.00	22.79	0.4	8.0	3.1	17.4	157	1380	131	1249	
SVE-36	11/20/2012	1119	-5.12	0.26	22.78	0.0	1.0	1.7	18.7	103	249	23.9	225	
SVE-36	12/19/2012	1425	-3.20	NA	22.73	0.0	0.0	3.4	17.1	67.9	190	23.4	167	

Notes:

1) NM = Not Measured; NE = Not Encountered; PID = Photo Ionization Detector; THC = Total Hydrocarbon Concentration; PHC = Petroleum Hydrocarbon Concentration; OVR = Over-range; ppmv = Parts Per Mi lion By Volume.

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-01-5	2/15/2012	1641	0.05	0.08	0.0	0.0	3.7	12.4	25.1	64.5	6.7	57.8	
VMP-01-5	2/16/2012	1433	0.06	0.06	0.0	0.0	2.1	20.0	23.7	72.5	23.5	49.0	
VMP-01-5	2/17/2012	1327	0.06	0.07	0.0	0.0	3.2	5.4	7.0	28.2	18.1	10.1	
VMP-01-5	2/22/2012	804	0.04	0.00	42.1	OVR	11.4	1.0	154	22470	7870	14600	
VMP-01-5	2/29/2012	846	-1.11	- 0.24	12.0	OVR	5.0	16.2	186	5430	214	5216	
VMP-01-5	3/21/2012	1356	0.03	0.08	0.0	0.0	1.2	19.0	4.0	3.9	0.0	3.9	
VMP-01-5	4/18/2012	829	-0.14	-0.03	0.0	0.0	1.9	19.5	2.4	1.5	0.0	1.5	
VMP-01-5	5/16/2012	834	-0.09	-0.07	0.0	0.0	2.1	18.9	1.0	6.1	4.4	1.7	
VMP-01-5	6/20/2012	1353	0.07	0.09	0.0	0.0	2.2	18.6	1.0	9.6	5.6	4.0	
VMP-01-5	7/18/2012	1348	0.04	0.05	0.0	0.0	1.4	18.8	0.8	23.6	11.0	12.6	
VMP-01-5	8/15/2012	1404	0.00	0.03	0.0	0.0	1.4	17.7	0.7	7.0	0.0	7.0	
VMP-01-5	9/19/2012	837	-0.04	-0.08	0.0	0.0	0.6	20.4	0.6	4.6	0.0	4.6	
VMP-01-5	10/17/2012	810	-0.09	-0.05	0.0	0.0	1.7	19.5	1.3	48.2	31.8	16.4	
VMP-01-5	11/20/2012	1432	-0.03	-0.02	0.0	0.0	0.5	20.3	0.4	5.4	2.7	2.7	
VMP-01-5	12/19/2012	830	-0.54	-0.06	0.0	0.0	0.5	20.5	0.5	3.8	0.0	3.8	
VMP-01-8.5	2/15/2012	1642	-0.04	0.10	0.0	0.0	9.5	3.3	26.5	183	126	57.4	
VMP-01-8.5	2/16/2012	1434	4.70	0.08	0.0	0.0	0.2	20.9	15.1	53.8	32.9	20.9	
VMP-01-8.5	2/17/2012	1327	0.11	0.09	0.0	0.0	9.4	1.7	8.6	53.8	35.2	18.6	
VMP-01-8.5	2/22/2012	807	0.04	0.00	35.6	OVR	11.4	1.6	152	19860	6520	13340	
VMP-01-8.5	2/29/2012	847	-1.03	- 0.26	14.6	OVR	6.9	15.0	189	4460	139	4321	
VMP-01-8.5	3/21/2012	1357	0.04	0.10	0.0	0.0	4.3	9.6	4.5	0.0	0.0	0.0	
VMP-01-8.5	4/18/2012	830	-0.08	-0.03	0.0	0.0	2.5	19.2	3.4	2.1	0.0	2.1	
VMP-01-8.5	5/16/2012	839	-0.10	-0.12	0.0	0.0	2.2	19.0	1.1	3.9	0.0	3.9	
VMP-01-8.5	6/20/2012	1354	0.06	0.04	0.0	0.0	5.9	10.9	2.0	1.8	0.0	1.8	
VMP-01-8.5	7/18/2012	1352	0.04	0.07	0.0	0.0	4.2	14.2	2.3	42.1	30.7	11.4	
VMP-01-8.5	8/15/2012	1419	0.01	-0.04	0.0	0.0	5.0	13.9	1.3	4.9	0.0	4.9	
VMP-01-8.5	9/19/2012	838	-0.68	-0.76	0.0	0.0	0.8	20.0	0.9	3.0	0.0	3.0	
VMP-01-8.5	10/17/2012	811	-0.10	0.28	0.0	0.0	3.1	17.1	0.7	3.4	0.0	3.4	
VMP-01-8.5	11/20/2012	1434	-0.02	-0.01	0.0	0.0	1.1	19.4	0.6	3.5	0.0	3.5	
VMP-01-8.5	12/19/2012	835	-0.04	-0.60	0.0	0.0	0.7	20.1	0.8	3.3	0.0	3.3	
VMP-01-23.5	2/15/2012	1643	0.06	0.01	OVR	OVR	9.9	1.7	68.9	132000	127000	5000	
VMP-01-23.5	2/16/2012	1435	0.09	0.14	6.1	OVR	11.6	1.7	45.4	19990	13800	6190	
VMP-01-23.5	2/17/2012	1327	-0.02	0.09	OVR	OVR	10.1	1.2	76.2	161000	88990	72010	
VMP-01-23.5	2/22/2012	808	0.04	- 0.13	OVR	OVR	8.3	1.2	53.5	560000	250000	310000	
VMP-01-23.5	2/29/2012	848	-1.04	- 0.24	OVR	OVR	10.1	1.4	63.7	133000	85100	47900	
VMP-01-23.5	3/21/2012	1358	0.06	0.16	OVR	OVR	9.4	1.5	67.5	64900	46200	18700	
VMP-01-23.5	4/18/2012	831	-0.12	-0.05	OVR	OVR	10.0	1.0	64.6	128000	69100	58900	
VMP-01-23.5	5/16/2012	843	-0.21	-0.24	11.4	OVR	11.6	1.8	41.6	13800	7700	6100	
VMP-01-23.5	6/20/2012	1355	0.05	0.11	16.5	OVR	10.9	1.4	58.3	57600	38600	19000	
VMP-01-23.5	7/18/2012	1349	0.30	0.07	OVR	OVR	6.7	8.3	52.6	38500	23300	15200	
VMP-01-23.5	8/15/2012	1414	0.00	0.00	OVR	OVR	7.0	8.4	128	44900	28900	16000	
VMP-01-23.5	9/19/2012	839	-0.09	-0.09	0.0	1.0	3.1	16.9	4.2	14.3	4.9	9.4	Sample integrity compromised during screening.
VMP-01-23.5	10/17/2012	812	-0.05	-0.26	OVR	OVR	5.3	9.5	70.2	208000	124000	84000	
VMP-01-23.5	11/20/2012	1436	-0.06	-0.04	OVR	OVR	3.2	14.8	125	40300	28500	11800	
VMP-01-23.5	12/19/2012	840	-0.05	-0.06	0.0	1.0	2.5	17.3	1.2	14.5	4.9	9.6	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-01-38.5	2/15/2012	1644	0.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-01-38.5	2/16/2012	1436	0.18	0.03	0.0	0.0	1.2	20.6	20.5	73.9	22.2	51.7	
VMP-01-38.5	2/17/2012	1327	-0.05	0.04	0.0	0.0	1.4	13.7	7.1	10.5	10.5	0.0	
VMP-01-38.5	2/22/2012	808	0.02	- 0.02	10.5	OVR	4.8	12.6	121	8980	2980	6000	
VMP-01-38.5	2/29/2012	849	-1.02	- 0.33	5.5	OVR	3.4	17.8	150	4625	74.3	4551	
VMP-01-38.5	3/21/2012	1359	-0.03	0.06	0.2	4.0	0.6	20.3	37.2	165	30.8	134	
VMP-01-38.5	4/18/2012	832	-0.44	0.00	0.0	0.0	1.9	19.5	3.2	2.6	0.0	2.6	
VMP-01-38.5	5/16/2012	849	-1.94	-0.23	0.0	0.0	1.4	19.6	1.9	25.8	20.5	5.3	
VMP-01-38.5	6/20/2012	1356	0.03	0.04	0.0	0.0	0.3	20.7	0.5	10.1	4.0	6.1	
VMP-01-38.5	7/18/2012	1353	0.00	0.06	0.1	3.0	1.2	18.4	7.5	436	185	251	
VMP-01-38.5	8/15/2012	1409	-1.19	-0.07	0.0	0.0	1.3	18.6	2.8	89.2	44.2	45.0	
VMP-01-38.5	9/19/2012	840	-0.07	-0.07	0.0	0.0	0.3	20.6	0.9	4.28	0.00	4.28	
VMP-01-38.5	10/17/2012	815	0.00	-0.05	68.1	OVR	0.9	19.9	72.3	35,400	24,400	11,000	
VMP-01-38.5	11/20/2012	1438	-0.04	-0.03	0.2	4.0	0.3	20.3	17.0	375	133	242	
VMP-01-38.5	12/19/2012	845	-0.07	-0.05	0.0	0.0	0.3	20.7	2.2	16.27	0.00	16.3	
VMP-02-5	2/15/2012	1705	-0.11	0.18	0.0	0.0	1.6	19.2	12.0	39.3	2.0	37.3	
VMP-02-5	2/16/2012	1524	0.18	0.17	0.0	0.0	0.5	20.9	4.0	13.3	6.3	6.9	
VMP-02-5	2/17/2012	1356	0.07	0.08	0.0	0.0	4.6	11.4	3.0	15.4	15.3	0.1	
VMP-02-5	2/22/2012	825	-0.01	- 0.01	0.0	0.0	7.6	11.2	10.5	94.0	58.0	36.0	
VMP-02-5	2/29/2012	906	-0.07	- 0.05	0.0	0.0	1.0	20.7	1.0	37.1	3.5	33.6	
VMP-02-5	3/21/2012	1416	0.05	0.06	0.0	0.0	1.1	19.2	0.6	0.0	0.0	0.0	
VMP-02-5	4/18/2012	914	-0.16	-0.09	0.0	0.0	0.1	20.8	0.3	3.0	0.0	3.0	
VMP-02-5	5/16/2012	901	-0.30	-0.30	0.0	0.0	0.1	20.8	0.2	1.7	0.0	1.7	
VMP-02-5	6/20/2012	1419	0.03	0.02	0.0	0.0	0.7	20.0	1.6	5.8	3.1	2.8	
VMP-02-5	7/18/2012	1425	0.04	-0.02	0.0	0.0	1.1	19.1	0.6	2.5	0.0	2.5	
VMP-02-5	8/15/2012	1323	-0.13	0.00	0.0	0.0	3.0	18.1	0.6	3.1	0.0	3.1	
VMP-02-5	9/19/2012	920	-0.25	-0.21	0.0	0.0	0.5	20.6	0.8	2.7	0.0	2.7	
VMP-02-5	10/17/2012	1214	-0.08	-0.07	0.0	0.0	0.2	20.7	0.3	1.7	0.0	1.7	
VMP-02-5	11/20/2012	1458	-0.19	-0.22	0.0	0.0	0.4	20.4	0.1	1.6	0.0	1.6	
VMP-02-5	12/19/2012	900	-0.26	-0.32	0.0	0.0	0.6	20.3	0.2	0.9	0.0	0.9	
VMP-02-8.5	2/15/2012	1706	-0.12	0.22	0.0	0.0	6.4	11.7	16.5	28.3	1.0	27.3	
VMP-02-8.5	2/16/2012	1525	0.36	0.18	0.0	0.0	2.3	18.8	4.3	13.6	3.8	9.8	
VMP-02-8.5	2/17/2012	1356	0.08	0.09	0.0	0.0	8.0	9.8	4.7	25.9	16.2	9.7	
VMP-02-8.5	2/22/2012	825	-0.05	- 0.02	0.0	0.0	0.2	20.8	1.6	10.8	5.5	5.3	
VMP-02-8.5	2/29/2012	906	-0.16	0.06	0.0	0.0	2.7	17.9	11.0	38.2	4.2	34.0	
VMP-02-8.5	3/21/2012	1417	-0.04	0.05	0.0	0.0	6.0	14.0	0.7	0.0	0.0	0.0	
VMP-02-8.5	4/18/2012	915	-0.16	-0.10	0.0	0.0	1.5	19.3	0.4	2.5	0.0	2.5	
VMP-02-8.5	5/16/2012	905	-0.32	-0.31	0.0	0.0	0.9	20.1	0.3	0.8	0.0	0.8	
VMP-02-8.5	6/20/2012	1321	0.02	0.03	0.0	0.0	4.2	16.4	0.9	2.2	0.0	2.2	
VMP-02-8.5	7/18/2012	1430	0.03	-0.02	0.0	0.0	4.7	15.5	0.8	2.3	0.0	2.3	
VMP-02-8.5	8/15/2012	1329	-0.02	0.00	0.0	0.0	5.3	16.0	0.4	1.5	0.0	1.5	
VMP-02-8.5	9/19/2012	921	-0.28	-0.25	0.0	0.0	0.7	20.3	0.5	4.0	0.0	4.0	
VMP-02-8.5	10/17/2012	1216	-0.10	-0.09	0.0	0.0	0.5	20.4	0.6	1.4	0.0	1.4	
VMP-02-8.5	11/20/2012	1500	-0.21	-0.23	0.0	0.0	1.0	19.9	0.2	0.3	0.0	0.3	
VMP-02-8.5	12/19/2012	905	-0.27	-0.34	0.0	0.0	1.6	19.5	0.2	0.3	0.0	0.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-02-22	2/15/2012	1707	-0.14	0.32	2.5	51.0	11.8	1.9	28.3	22,000	20,500	1,500	
VMP-02-22	2/16/2012	1526	0.28	0.26	0.0	0.0	8.9	8.1	7.3	1,000	1,000	0.0	
VMP-02-22	2/17/2012	1357	0.12	0.13	0.7	15.0	10.3	4.9	20.6	6,180	5,600	580	
VMP-02-22	2/22/2012	826	0.00	- 0.03	1.0	20.0	11.2	3.3	29.3	11,550	7,490	4,060	
VMP-02-22	2/29/2012	907	-0.09	0.12	0.2	4.0	9.7	6.8	18.5	1,360	1,360	0.0	
VMP-02-22	3/21/2012	1418	0.09	0.08	0.0	0.0	8.5	8.5	8.0	170	162	8.0	
VMP-02-22	4/18/2012	916	-0.22	-0.13	0.0	0.0	6.3	13.5	0.5	3.0	0.0	3.0	
VMP-02-22	5/16/2012	909	-0.42	-0.41	0.0	0.0	5.8	15.1	0.3	0.4	0.0	0.4	
VMP-02-22	6/20/2012	1421	0.05	0.03	0.0	0.0	5.4	14.6	1.6	4.7	0.0	4.7	
VMP-02-22	7/18/2012	1425	0.03	-0.03	0.0	0.0	5.1	14.5	0.7	2.5	0.0	2.5	
VMP-02-22	8/15/2012	1330	-0.04	0.00	0.0	0.0	4.1	17.1	0.4	2.5	0.0	2.5	
VMP-02-22	9/19/2012	922	-0.47	-0.40	0.0	0.0	4.0	17.6	0.6	1.8	0.0	1.8	
VMP-02-22	10/17/2012	1217	-0.23	-0.16	0.0	0.0	3.2	17.5	0.6	1.2	0.0	1.2	
VMP-02-22	11/20/2012	1502	-0.29	-0.32	0.0	0.0	3.5	17.4	0.3	1.0	0.0	1.0	
VMP-02-22	12/19/2012	910	-0.34	-0.44	0.0	0.0	3.2	17.9	0.3	0.5	0.0	0.5	
VMP-02-42	2/15/2012	1708	0.37	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	2/16/2012	1527	5.84	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	2/17/2012	1357	0.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	2/22/2012	826	-0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	2/29/2012	909	0.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	3/21/2012	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-02-42	4/18/2012	917	-3.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	5/16/2012	914	-0.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	6/20/2012	1422	11.50	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	7/18/2012	1430	-0.52	-0.07	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	8/15/2012	1331	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	9/19/2012	923	12.19	-0.40	OVR	OVR	4.3	1.6	30.9	1,000,000	944,000	56,000	
VMP-02-42	10/17/2012	1214	2.57	0.16	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	11/20/2012	1457	-0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-02-42	12/19/2012	915	-1.71	-0.54	OVR	OVR	4.2	3.6	52.7	1,000,000	575,000	425,000	
VMP-03-5	2/15/2012	1555	-0.28	-0.27	0.0	0.0	1.1	19.9	0.3	2.5	0.0	2.5	
VMP-03-5	2/16/2012	1617	-0.39	-0.36	0.0	0.0	1.1	20.6	0.3	5.5	5.5	0.0	
VMP-03-5	2/17/2012	936	-0.35	-0.30	0.0	0.0	1.2	20.3	0.3	1.2	0.0	1.2	
VMP-03-5	2/20/2012	949	-0.35	-0.35	0.0	0.0	1.0	20.3	0.3	2.0	0.0	2.0	
VMP-03-5	2/21/2012	853	-0.50	-0.45	0.0	0.0	0.9	20.5	0.3	2.1	0.0	2.1	
VMP-03-5	2/22/2012	924	-0.79	- 0.20	0.0	0.0	1.0	20.7	0.1	0.0	0.0	0.0	
VMP-03-5	2/29/2012	920	-0.17	- 0.23	0.0	0.0	0.9	20.1	0.2	0.0	0.0	0.0	
VMP-03-5	3/21/2012	1513	-0.03	- 0.26	0.0	0.0	1.1	18.7	0.4	0.0	0.0	0.0	
VMP-03-5	4/18/2012	1404	-0.14	-0.11	0.0	0.0	1.1	18.6	1.5	5.7	0.0	5.7	
VMP-03-5	5/16/2012	954	-0.19	-0.19	0.0	0.0	1.1	20.0	0.2	0.9	0.0	0.9	
VMP-03-5	6/20/2012	1511	-0.13	-0.12	0.0	0.0	3.3	18.0	1.1	6.1	0.1	6.0	
VMP-03-5	7/18/2012	1448	-0.03	-0.02	0.0	0.0	0.2	20.5	0.6	7.3	5.2	2.1	
VMP-03-5	8/15/2012	1416	0.00	0.00	0.0	0.0	0.2	20.7	0.6	4.7	0.0	4.7	
VMP-03-5	9/19/2012	1023	-0.28	-0.25	0.0	0.0	0.9	20.2	0.7	5.5	0.0	5.5	
VMP-03-5	10/17/2012	1235	-0.31	-0.10	0.0	0.0	0.3	20.4	0.7	1.9	0.0	1.9	
VMP-03-5	11/20/2012	1405	-0.14	-0.15	0.0	0.0	0.2	20.7	0.2	2.4	0.0	2.4	
VMP-03-5	12/19/2012	1100	-0.14	-0.10	0.0	0.0	0.1	20.7	0.1	1.1	0.0	1.1	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-03-10	2/15/2012	1553	-0.30	-0.25	0.0	0.0	1.8	17.7	0.3	6.3	0.8	5.5	
VMP-03-10	2/16/2012	1618	-0.45	-0.41	0.0	0.0	1.4	19.4	1.9	9.2	5.7	3.5	
VMP-03-10	2/17/2012	937	-0.52	-0.34	0.0	0.0	1.3	19.6	1.0	4.3	0.0	4.3	
VMP-03-10	2/20/2012	950	-0.48	-0.42	0.0	0.0	1.0	19.9	0.8	3.2	0.0	3.2	
VMP-03-10	2/21/2012	855	-0.62	-0.59	0.0	0.0	0.8	20.2	0.7	2.5	0.0	2.5	
VMP-03-10	2/22/2012	924	-0.24	- 0.26	0.0	0.0	0.8	20.4	0.4	2.5	0.0	2.5	
VMP-03-10	2/29/2012	921	0.00	-0.32	0.0	0.0	1.0	19.2	0.1	4.9	0.0	4.9	
VMP-03-10	3/21/2012	1516	-0.05	- 0.19	0.0	0.0	0.9	18.3	0.8	0.0	0.0	0.0	
VMP-03-10	4/18/2012	1405	-0.15	-0.12	0.0	0.0	1.6	18.4	0.9	4.9	0.0	4.9	
VMP-03-10	5/16/2012	1006	-0.24	-0.28	0.0	0.0	2.0	18.7	0.3	0.5	0.0	0.5	
VMP-03-10	6/20/2012	1512	-0.30	-0.30	0.0	0.0	0.3	20.8	1.5	10.6	4.3	6.4	
VMP-03-10	7/18/2012	1452	-0.10	-0.08	0.0	0.0	1.8	19.0	1.0	4.3	0.0	4.3	
VMP-03-10	8/15/2012	1417	0.00	-0.10	0.0	0.0	1.4	19.6	0.5	2.8	0.0	2.8	
VMP-03-10	9/19/2012	1024	-0.33	-0.22	0.0	0.0	0.7	20.3	1.0	4.18	0.00	4.18	
VMP-03-10	10/17/2012	1236	-0.18	-0.19	0.0	0.0	0.5	20.0	0.7	1.3	0.0	1.3	
VMP-03-10	11/20/2012	1417	-0.20	-0.21	0.0	0.0	0.5	20.4	0.2	2.0	0.0	2.0	
VMP-03-10	12/19/2012	1115	-0.17	-0.11	0.0	0.0	0.5	20.4	0.2	0.5	0.0	0.5	
VMP-03-22	2/15/2012	1558	-0.33	-0.30	0.0	0.0	6.3	14.3	0.8	5.5	0.6	5.0	
VMP-03-22	2/16/2012	1619	-1.14	-0.77	0.0	0.0	7.1	13.4	2.1	6.3	3.0	3.4	
VMP-03-22	2/17/2012	938	-0.43	-0.55	0.0	0.0	7.7	13.7	0.9	2.8	0.0	2.8	
VMP-03-22	2/20/2012	951	-1.22	-0.95	0.0	0.0	5.6	17.1	0.8	3.9	0.0	3.9	
VMP-03-22	2/21/2012	854	-2.27	-1.57	0.0	0.0	4.8	17.0	0.5	5.0	0.0	5.0	
VMP-03-22	2/22/2012	923	-0.22	- 0.07	0.0	0.0	5.8	16.4	0.4	2.7	0.0	2.7	
VMP-03-22	2/29/2012	922	-0.27	- 0.04	0.0	1.0	4.7	16.2	1.4	478	440	38.0	
VMP-03-22	3/21/2012	1516	-0.29	-0.20	0.0	0.0	1.6	19.7	0.4	0.0	0.0	0.0	
VMP-03-22	4/18/2012	1406	-0.15	0.00	0.0	0.0	0.0	20.9	0.2	5.1	0.0	5.1	
VMP-03-22	5/16/2012	1010	-0.35	-0.35	0.0	0.0	0.9	20.2	0.5	1.0	0.0	1.0	
VMP-03-22	6/20/2012	1513	-0.14	-0.04	0.0	0.0	0.9	20.3	1.0	5.2	2.1	3.1	
VMP-03-22	7/18/2012	1449	-0.14	-0.12	0.0	0.0	0.8	20.1	0.8	3.7	0.0	3.7	
VMP-03-22	8/15/2012	1418	-0.15	-0.14	0.0	0.0	1.3	19.7	0.8	5.6	0.0	5.6	
VMP-03-22	9/19/2012	1025	-0.44	-0.40	0.0	0.0	3.6	16.8	1.2	5.0	0.0	5.0	
VMP-03-22	10/17/2012	1236	-0.28	-0.28	0.0	0.0	3.1	17.6	0.8	1.8	0.0	1.8	
VMP-03-22	11/20/2012	1421	-0.27	-0.29	0.0	0.0	2.8	18.2	0.2	2.1	0.0	2.1	
VMP-03-22	12/19/2012	1120	-0.22	-0.12	0.0	0.0	2.8	18.3	0.2	0.3	0.0	0.3	
VMP-03-31.5	2/15/2012	1559	-0.40	-0.34	OVR	OVR	6.4	1.7	91.0	1,000,000	860,000	140,000	
VMP-03-31.5	2/16/2012	1620	-0.57	-0.41	OVR	OVR	6.4	4.2	107	889,000	231,000	658,000	
VMP-03-31.5	2/17/2012	939	-1.29	-0.35	OVR	OVR	6.5	2.1	103	970,000	517,000	453,000	
VMP-03-31.5	2/20/2012	952	-0.50	-0.34	OVR	OVR	5.9	4.6	105	948,000	279,000	669,000	
VMP-03-31.5	2/21/2012	856	-0.48	-0.48	OVR	OVR	2.4	14.6	155	432,000	88,520	343,480	
VMP-03-31.5	2/22/2012	924	-0.20	- 0.25	OVR	OVR	4.4	7.3	109	930,000	302,000	628,000	
VMP-03-31.5	2/29/2012	923	-0.62	- 0.80	OVR	OVR	5.5	4.8	107	835,000	213,000	622,000	
VMP-03-31.5	3/21/2012	1515	-0.05	-0.15	OVR	OVR	7.2	1.7	99	1,000,000	256,000	744,000	
VMP-03-31.5	4/18/2012	1407	-0.20	-0.08	OVR	OVR	6.2	1.4	115	1,000,000	238,000	762,000	
VMP-03-31.5	5/16/2012	1001	-1.19	-1.16	OVR	OVR	4.2	9.7	175	133,000	65,900	67,100	
VMP-03-31.5	6/20/2012	1514	-0.27	-0.26	OVR	OVR	4.6	5.4	175	100,000	40,000	60,000	
VMP-03-31.5	7/18/2012	1450	-0.41	-0.37	OVR	OVR	5.9	5.5	110	129,000	40,000	89,000	
VMP-03-31.5	8/15/2012	1419	-0.48	-0.39	OVR	OVR	9.0	1.5	197	45,600	26,800	18,800	
VMP-03-31.5	9/19/2012	1026	-1.45	-1.27	OVR	OVR	8.7	3.4	243	38,300	17,100	21,200	
VMP-03-31.5	10/17/2012	1237	-0.94	-0.85	39.1	OVR	6.5	8.2	249	15,200	10,400	4,800	
VMP-03-31.5	11/20/2012	1409	-0.82	-0.86	2.2	45.0	4.7	11.8	165	2,800	1,400	1,400	
VMP-03-31.5	12/19/2012	1105	-0.90	-0.46	0.2	5.0	3.5	15.3	55.6	370	47.7	322	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-03-39	2/15/2012	1557	-1.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/16/2012	1621	-12.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/17/2012	940	-96.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/20/2012	952	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/21/2012	857	-60.70	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/22/2012	925	-0.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	2/29/2012	924	3.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	3/21/2012	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged
VMP-03-39	4/18/2012	1408	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-03-39	5/16/2012	1015	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-03-39	6/20/2012	1515	0.02	0.01	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-03-39	7/18/2012	1452	0.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-03-39	8/15/2012	1420	-0.27	-0.19	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-03-39	9/19/2012	1027	-1.41	-1.19	OVR	OVR	7.9	2.5	260	38,100	34,600	3,500	
VMP-03-39	10/17/2012	1424	-3.03	-0.84	OVR	OVR	8.8	1.3	226	50,600	30,300	20,300	
VMP-03-39	11/20/2012	1413	-0.83	-0.87	OVR	OVR	9.2	1.2	310	47,900	22,700	25,200	
VMP-03-39	12/19/2012	1110	-0.93	-0.43	OVR	OVR	7.9	2.1	240	450,000	205,000	245,000	
VMP-04-5	2/1/2012	1708	-0.15	-0.15	0.0	0.0	1.2	20.1	0.6	2.3	0.0	2.3	
VMP-04-5	2/2/2012	1054	-0.17	-0.14	0.0	0.0	0.8	20.9	0.6	1.2	0.0	0.0	
VMP-04-5	2/7/2012	859	-0.15	-0.15	0.0	0.0	0.4	20.9	0.2	0.0	0.0	0.0	
VMP-04-5	2/10/2012	830	-0.11	-0.15	0.0	0.0	0.2	20.9	2.0	10.6	5.8	4.8	
VMP-04-5	2/13/2012	910	-0.13	-0.11	0.0	0.0	0.2	20.9	0.1	0.0	0.0	0.0	
VMP-04-5	2/15/2012	1120	-0.12	-0.12	0.0	0.0	0.2	20.8	0.4	0.0	0.0	0.0	
VMP-04-5	2/22/2012	1327	-0.05	- 0.05	0.0	0.0	0.4	20.8	1.6	4.0	0.0	4.0	
VMP-04-5	2/29/2012	1031	-0.12	- 0.03	0.0	0.0	0.5	20.5	3.3	9.7	0.8	8.9	
VMP-04-5	3/21/2012	1540	-0.05	-0.12	0.0	0.0	0.5	20.0	0.1	0.0	0.0	0.0	
VMP-04-5	4/18/2012	1342	-0.06	-0.06	0.0	0.0	0.4	20.4	0.1	3.1	0.0	3.1	
VMP-04-5	5/16/2012	1133	-0.20	-0.22	0.0	0.0	2.4	18.0	0.6	0.0	0.0	0.0	
VMP-04-5	6/20/2012	1427	-0.08	NM	0.0	0.0	2.3	18.3	1.0	5.4	0.0	5.4	
VMP-04-5	7/18/2012	1512	-0.04	-0.02	0.0	0.0	1.5	18.6	0.5	3.6	0.0	3.6	
VMP-04-5	8/15/2012	1509	-0.27	-0.23	0.0	0.0	1.6	18.6	0.9	4.8	0.0	4.8	
VMP-04-5	9/19/2012	1113	-0.08	-0.08	0.0	0.0	0.8	20.1	0.8	7.5	7.1	0.4	
VMP-04-5	10/17/2012	1310	-0.07	-0.06	0.0	0.0	0.6	20.1	0.6	2.0	0.0	2.0	
VMP-04-5	11/20/2012	1438	-0.06	-0.08	0.0	0.0	0.4	20.4	0.2	0.8	0.0	0.8	
VMP-04-5	12/19/2012	1030	-0.07	-0.05	0.0	0.0	0.4	20.4	0.4	0.5	0.0	0.5	
VMP-04-12	2/1/2012	1713	-0.23	-0.25	0.0	0.0	3.6	14.6	1.1	3.8	0.0	3.8	
VMP-04-12	2/2/2012	1102	-0.27	-0.23	0.0	0.0	2.5	16.5	0.9	2.3	0.0	2.3	
VMP-04-12	2/7/2012	904	-0.23	-0.25	0.0	0.0	1.2	18.2	0.2	1.6	0.0	1.6	
VMP-04-12	2/10/2012	831	-0.18	-0.24	0.0	0.0	1.4	17.6	2.0	10.6	6.7	3.8	
VMP-04-12	2/13/2012	911	-0.23	-0.16	0.0	0.0	1.3	18.4	0.2	0.0	0.0	0.0	
VMP-04-12	2/15/2012	1121	-0.18	-0.20	0.0	0.0	1.4	18.3	0.6	1.3	0.0	1.3	
VMP-04-12	2/22/2012	1325	-0.09	- 0.09	0.0	0.0	2.1	17.6	2.4	7.3	2.1	5.2	
VMP-04-12	2/29/2012	1032	-0.08	- 0.05	0.0	0.0	2.0	18.0	3.8	20.2	9.5	10.8	
VMP-04-12	3/21/2012	1540	-0.09	-0.16	0.0	0.0	2.7	15.9	0.5	0.0	0.0	0.0	
VMP-04-12	4/18/2012	1343	-0.09	-0.10	0.0	0.0	1.5	19.0	0.5	6.0	0.0	6.0	
VMP-04-12	5/16/2012	1138	-0.30	-0.30	0.0	0.0	2.8	17.7	0.8	0.0	0.0	0.0	
VMP-04-12	6/20/2012	1428	-0.15	NM	0.0	0.0	3.0	17.6	1.0	1.9	0.0	1.9	
VMP-04-12	7/18/2012	1517	-0.09	-0.08	0.0	0.0	2.5	17.5	0.7	3.1	0.0	3.1	
VMP-04-12	8/15/2012	1509	-0.07	-0.10	0.0	0.0	2.9	17.9	1.3	3.4	0.0	3.4	
VMP-04-12	9/19/2012	1114	-0.21	-0.19	0.0	0.0	1.7	19.2	0.8	4.0	0.0	4.0	
VMP-04-12	10/17/2012	1311	-0.22	-0.17	0.0	0.0	1.0	19.7	1.0	1.6	0.0	1.6	
VMP-04-12	11/20/2012	1426	-0.25	-0.24	0.0	0.0	0.7	20.1	0.6	1.4	0.0	1.4	
VMP-04-12	12/19/2012	1035	-0.14	-0.10	0.0	0.0	0.8	20.0	0.3	0.5	0.0	0.5	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-04-23.5	2/1/2012	1717	-0.38	-0.42	OVR	OVR	9.0	0.9	272	300,000	79,000	221,000	
VMP-04-23.5	2/2/2012	1107	-0.85	-0.67	OVR	OVR	8.7	3.0	259	1,000,000	141,000	859,000	
VMP-04-23.5	2/7/2012	909	-0.80	-0.74	OVR	OVR	8.3	3.5	223	300,000	79,000	221,000	
VMP-04-23.5	2/10/2012	832	-0.98	-4.14	OVR	OVR	9.6	1.3	275	136,000	82,000	54,000	
VMP-04-23.5	2/13/2012	912	-1.03	-0.85	OVR	OVR	10.0	2.0	298	71,500	34,720	36,780	
VMP-04-23.5	2/15/2012	1122	-1.24	-1.01	OVR	OVR	10.1	2.1	359	93,400	28,000	65,400	
VMP-04-23.5	2/22/2012	1328	-0.99	- 0.58	OVR	OVR	10.6	2.3	431	80,900	21,510	59,390	
VMP-04-23.5	2/29/2012	1033	-0.69	- 0.57	OVR	OVR	11.1	1.8	527	71,280	14,130	57,150	
VMP-04-23.5	3/21/2012	1540	-0.36	-0.46	OVR	OVR	10.5	2.4	442	86,300	16,900	69,400	
VMP-04-23.5	4/18/2012	1344	-0.68	-0.60	OVR	OVR	10.0	1.0	557	61,300	14,300	47,000	
VMP-04-23.5	5/16/2012	1142	-1.42	-1.38	OVR	OVR	10.0	3.9	660	31,000	9,000	22,000	
VMP-04-23.5	6/20/2012	1429	-0.80	NM	OVR	OVR	12.0	0.7	916	25,900	9,500	16,400	
VMP-04-23.5	7/18/2012	1515	-0.93	-0.92	OVR	OVR	11.2	2.4	554	29,300	4,250	25,050	
VMP-04-23.5	8/15/2012	1510	-0.93	-0.99	OVR	OVR	12.5	2.5	412	18,100	6,000	12,100	
VMP-04-23.5	9/19/2012	1115	-1.92	-1.82	OVR	OVR	10.7	9.7	680	18,100	4,100	14,000	
VMP-04-23.5	10/17/2012	1314	-1.60	-1.51	60.5	OVR	8.6	12.4	469	6,660	2,890	3,770	
VMP-04-23.5	11/20/2012	1430	-1.32	-1.42	3.7	74.0	5.8	14.1	330	3,300	940	2,360	
VMP-04-23.5	12/19/2012	1040	-1.37	-0.90	0.8	16.0	5.8	14.1	120	2,500	690	1,810	
VMP-04-39	2/1/2012	1723	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-04-39	2/2/2012	1112	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-04-39	2/7/2012	857	-1.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-04-39	2/10/2012	833	-0.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-04-39	2/13/2012	913	-2.37	-0.83	OVR	OVR	9.3	3.2	281	116,000	39,100	76,900	
VMP-04-39	2/15/2012	1123	-1.23	-0.99	OVR	OVR	9.8	2.4	299	126,000	37,400	88,600	
VMP-04-39	2/22/2012	1328	-0.59	- 0.57	OVR	OVR	9.4	4.4	348	83,900	32,600	51,300	
VMP-04-39	2/29/2012	1034	-0.74	- 0.56	OVR	OVR	10.8	1.5	452	129,000	24,280	104,720	
VMP-04-39	3/21/2012	1540	-0.36	-0.37	OVR	OVR	11.0	1.0	396	162,000	32,600	129,400	
VMP-04-39	4/18/2012	1345	-0.69	-0.59	OVR	OVR	10.1	1.1	475	136,000	28,000	108,000	
VMP-04-39	5/16/2012	1154	-1.42	-1.35	OVR	OVR	9.2	3.2	610	58,200	13,500	44,700	
VMP-04-39	6/20/2012	1430	-0.80	NM	OVR	OVR	8.8	5.3	724	21,000	10,300	10,700	
VMP-04-39	7/18/2012	1519	-0.94	-0.89	OVR	OVR	12.1	1.4	422	54,000	12,200	41,800	
VMP-04-39	8/15/2012	1510	-0.89	-0.97	OVR	OVR	12.0	2.2	260	71,200	18,500	52,700	
VMP-04-39	9/19/2012	1116	-1.94	-1.78	OVR	OVR	10.2	9.0	359	82,300	16,000	66,300	
VMP-04-39	10/17/2012	1315	-1.56	-1.50	OVR	OVR	7.1	13.6	300	66,700	25,100	41,600	
VMP-04-39	11/20/2012	1434	-1.31	-1.41	OVR	OVR	7.0	13.4	416	59,800	14,300	45500	
VMP-04-39	12/19/2012	1045	-1.37	-0.90	OVR	OVR	8.9	11.1	660	50,000	12,600	37,400	
VMP-05-5	2/2/2012	1323	-0.08	0.18	0.00	0.00	2.8	19.0	0.4	0.3	0.0	0.3	
VMP-05-5	2/3/2012	825	-0.16	0.26	0.00	0.00	2.1	19.5	0.6	1.7	0.0	1.7	
VMP-05-5	2/7/2012	812	-0.13	-0.06	0.00	0.00	1.4	20.5	0.4	0.0	0.0	0.0	
VMP-05-5	2/13/2012	1504	-0.16	0.37	0.00	0.00	1.1	20.4	0.7	5.2	2.1	3.1	
VMP-05-5	2/14/2012	1553	0.00	0.31	0.00	0.00	1.3	20.6	4.3	11.7	0.0	11.7	
VMP-05-5	2/15/2012	1240	-0.08	-0.06	0.00	0.00	1.0	20.6	2.2	9.3	5.4	3.9	
VMP-05-5	2/22/2012	838	-0.01	- 0.06	0.00	0.00	0.7	20.5	0.3	2.2	0.0	2.2	
VMP-05-5	2/29/2012	817	-0.07	- 0.05	0.00	0.00	0.7	20.9	0.4	2.9	0.0	2.9	
VMP-05-5	3/21/2012	849	-0.08	- 0.06	0.00	0.00	0.6	20.5	0.1	0.0	0.0	0.0	
VMP-05-5	4/18/2012	859	-0.11	-0.09	0.0	0.0	0.3	20.8	2.6	3.5	0.0	3.5	
VMP-05-5	5/16/2012	1151	-0.11	-0.09	0.0	0.0	0.3	20.6	0.8	0.0	0.0	0.0	
VMP-05-5	6/20/2012	1258	-0.06	-0.05	0.0	0.0	0.4	20.7	1.1	3.8	0.0	3.8	
VMP-05-5	7/18/2012	1039	-0.07	-0.05	0.0	0.0	0.4	20.6	0.3	1.7	0.0	1.7	
VMP-05-5	8/15/2012	1000	-0.06	-0.05	0.0	0.0	0.4	20.5	0.8	4.3	0.0	4.3	
VMP-05-5	9/19/2012	1324	-0.05	-0.05	0.0	0.0	0.1	20.8	0.7	1.5	0.0	1.5	
VMP-05-5	10/17/2012	1335	-0.05	-0.03	0.0	0.0	0.2	20.7	0.6	1.6	0.0	1.6	
VMP-05-5	11/20/2012	944	-0.04	-0.02	0.0	0.0	0.2	20.8	0.1	0.4	0.00	0.4	
VMP-05-5	12/19/2012	919	-0.05	-0.08	0.0	0.0	0.2	20.7	0.1	0.3	0.00	0.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-05-12.5	2/2/2012	1329	-0.07	-0.07	0.0	0.0	4.2	17.5	0.5	0.0	0.0	0.0	
VMP-05-12.5	2/3/2012	831	-0.21	-0.18	0.0	0.0	3.6	18.0	0.7	0.2	0.0	0.2	
VMP-05-12.5	2/7/2012	818	-0.13	-0.21	0.0	0.0	2.5	19.6	0.5	0.0	0.0	0.0	
VMP-05-12.5	2/13/2012	1505	-0.09	-0.07	0.0	0.0	2.2	19.8	0.4	0.0	0.0	0.0	
VMP-05-12.5	2/14/2012	1554	-0.18	-0.25	0.0	0.0	2.1	20.2	3.5	8.1	0.0	8.1	
VMP-05-12.5	2/15/2012	1241	-0.15	-0.18	0.0	0.0	1.4	20.5	1.8	8.3	4.9	3.4	
VMP-05-12.5	2/22/2012	844	-0.08	- 0.10	0.0	0.0	1.1	20.3	0.4	11.4	1.6	9.8	
VMP-05-12.5	2/29/2012	823	-0.14	- 0.11	0.0	0.0	1.1	20.7	0.5	2.9	0.0	2.9	
VMP-05-12.5	3/21/2012	853	-0.14	- 0.12	0.0	0.0	0.8	20.3	0.1	0.0	0.0	0.0	
VMP-05-12.5	4/18/2012	904	-0.20	-0.18	0.0	0.0	0.5	20.4	0.5	2.6	0.0	2.6	
VMP-05-12.5	5/16/2012	1151	-0.22	-0.19	0.0	0.0	0.5	20.4	0.4	0.0	0.0	0.0	
VMP-05-12.5	6/20/2012	1259	-0.15	-0.11	0.0	0.0	0.6	20.5	1.2	2.8	0.0	2.8	
VMP-05-12.5	7/18/2012	1040	-0.17	-0.15	0.0	0.0	0.6	20.4	0.7	2.0	0.0	2.0	
VMP-05-12.5	8/15/2012	1005	-0.15	-0.15	0.0	0.0	0.7	20.7	0.6	3.3	0.0	3.3	
VMP-05-12.5	9/19/2012	1325	-0.17	-0.17	0.0	0.0	0.3	20.5	1.1	1.5	0.0	1.5	
VMP-05-12.5	10/17/2012	1336	-0.19	-0.17	0.0	0.0	0.2	20.6	0.7	1.4	0.0	1.4	
VMP-05-12.5	11/20/2012	947	-0.17	-0.15	0.0	0.0	0.3	20.7	0.3	0.7	0.0	0.7	
VMP-05-12.5	12/19/2012	921	-0.12	-0.18	0.0	0.0	0.1	20.8	0.2	0.3	0.0	0.3	
VMP-05-31	2/2/2012	1334	-0.14	-0.27	OVR	OVR	11.3	1.0	229	146,000	53,300	92,700	
VMP-05-31	2/3/2012	837	-0.65	-0.33	OVR	OVR	10.8	1.5	192	100,000	27,500	72,500	
VMP-05-31	2/7/2012	823	-0.75	-0.51	OVR	OVR	11.1	2.5	192	59,700	36,140	23,560	
VMP-05-31	2/13/2012	1506	-0.47	-0.42	76.2	OVR	11.5	1.2	251	38,260	20,860	17,400	
VMP-05-31	2/14/2012	1555	-1.05	-1.10	68.2	OVR	11.6	1.3	246	38,900	18,600	20,300	
VMP-05-31	2/15/2012	1242	-0.70	-0.62	39.5	OVR	10.1	3.3	246	24,000	12,600	11,400	
VMP-05-31	2/22/2012	848	-0.53	- 0.49	3.5	70.0	11.5	1.6	188	6,970	4,020	2,950	
VMP-05-31	2/29/2012	828	-0.66	- 0.54	0.8	17.0	11.4	1.8	112	1,280	1,080	200	
VMP-05-31	3/21/2012	859	-0.59	- 0.53	0.1	3.0	11.3	1.2	22	308	248	60	
VMP-05-31	4/18/2012	908	-0.88	-0.87	0.0	0.0	11.4	1.7	8.4	140	110	30	
VMP-05-31	5/16/2012	1151	-1.00	-0.88	0.0	0.0	11.8	2.9	5.7	15.3	0.0	15.3	
VMP-05-31	6/20/2012	1300	-0.78	-0.58	0.0	0.0	8.2	12.3	5.0	13.7	1.4	12.3	
VMP-05-31	7/18/2012	1041	-0.88	-0.81	0.0	0.0	6.1	15.0	2.5	11.8	8.3	3.5	
VMP-05-31	8/15/2012	1009	-0.91	-0.90	0.0	0.0	5.9	15.3	1.4	12.6	9.7	2.9	
VMP-05-31	9/19/2012	1326	-1.04	-1.02	0.0	0.0	4.6	16.2	1.2	3.9	0.0	3.9	
VMP-05-31	10/17/2012	1334	-1.17	-1.12	0.0	0.0	4.0	17.4	0.7	6.0	5.2	0.8	
VMP-05-31	11/20/2012	950	-1.23	-1.19	0.0	0.0	3.8	17.6	0.7	8.6	7.9	0.7	
VMP-05-31	12/19/2012	922	-0.77	-1.05	0.0	0.0	4.0	17.3	0.6	5.7	3.9	1.8	
VMP-05-40	2/2/2012	1339	-0.22	-0.24	OVR	OVR	8.8	6.6	219	92,000	48,300	43,700	
VMP-05-40	2/3/2012	842	-0.47	-0.32	OVR	OVR	10.8	2.0	184	64,400	48,000	16,400	
VMP-05-40	2/7/2012	829	-0.61	-0.50	66.8	OVR	11.0	2.5	185	32,660	20,650	12,010	
VMP-05-40	2/13/2012	1507	-0.50	-0.42	40.7	OVR	11.9	1.2	251	21,740	13,890	7,850	
VMP-05-40	2/14/2012	1556	-1.01	-1.09	31.2	OVR	11.8	1.5	232	26,400	15,600	10,800	
VMP-05-40	2/15/2012	1243	-0.77	-0.62	17.5	OVR	10.5	3.1	213	16,460	9,230	7,230	
VMP-05-40	2/22/2012	854	-0.58	- 0.48	2.0	41.0	11.6	2.0	168	5,010	2,410	2,600	
VMP-05-40	2/29/2012	833	-0.64	- 0.52	0.7	14.0	11.7	2.4	91.2	1,150	776	374	
VMP-05-40	3/21/2012	907	-0.58	- 0.54	0.3	6.0	12.0	1.0	44.1	471	329	142	
VMP-05-40	4/18/2012	913	-0.89	-0.86	0.2	4.0	12.1	1.6	26.5	533	318	215	
VMP-05-40	5/16/2012	1151	-1.00	-0.88	0.0	0.0	9.9	9.7	15.7	74.2	30.5	43.7	
VMP-05-40	6/20/2012	1301	-0.78	-0.57	0.0	0.0	8.1	13.3	4.9	24.6	14.6	10.0	
VMP-05-40	7/18/2012	1042	-0.89	-0.81	0.0	0.0	6.1	15.6	2.9	29.6	21.4	8.3	
VMP-05-40	8/15/2012	1013	-0.91	-0.89	0.0	0.0	6.1	15.1	5.1	31.8	18.1	13.7	
VMP-05-40	9/19/2012	1327	-1.04	-1.01	0.0	0.0	5.0	16.2	2.3	21.0	17.8	3.2	
VMP-05-40	10/17/2012	1340	-1.16	-1.11	0.0	0.0	4.3	17.4	2.8	49.4	40.3	9.1	
VMP-05-40	11/20/2012	953	-1.23	-1.20	0.0	0.0	4.1	17.5	2.5	65.2	52.9	12.4	
VMP-05-40	12/19/2012	923	-0.78	-1.05	0.0	0.0	3.9	17.5	1.3	27.3	18.2	9.1	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-06-5	2/2/2012	1356	-0.03	-0.05	0.0	0.0	0.7	20.6	0.3	4.7	0.0	4.7	
VMP-06-5	2/3/2012	900	-0.06	-0.05	0.0	0.0	0.4	20.8	0.5	0.5	0.0	0.5	
VMP-06-5	2/7/2012	936	-0.05	-0.05	0.0	0.0	0.3	20.9	0.2	0.0	0.0	0.0	
VMP-06-5	2/15/2012	1330	-0.03	0.00	0.0	0.0	0.3	20.9	0.4	3.5	0.0	3.5	
VMP-06-5	2/22/2012	1059	0.00	0.00	0.0	0.0	0.6	20.7	0.4	0.0	0.0	0.0	
VMP-06-5	2/29/2012	940	-0.12	- 0.05	0.0	0.0	0.8	20.6	0.4	3.4	0.0	3.4	
VMP-06-5	3/21/2012	956	-0.02	0.01	0.0	0.0	0.4	20.7	0.2	0.0	0.0	0.0	
VMP-06-5	4/18/2012	951	-0.06	-0.05	0.0	0.0	0.1	20.9	0.8	5.7	0.0	5.7	
VMP-06-5	5/16/2012	1214	-0.10	-0.07	0.0	0.0	0.1	20.7	0.9	0.0	0.0	0.0	
VMP-06-5	6/20/2012	1018	-0.06	-0.04	0.0	0.0	0.2	20.6	0.5	4.3	0.0	4.3	
VMP-06-5	7/18/2012	950	-0.06	-0.05	0.0	0.0	0.2	20.8	0.4	1.7	0.0	1.7	
VMP-06-5	8/15/2012	930	-0.03	-0.04	0.0	0.0	0.2	20.8	0.7	3.4	0.0	3.4	
VMP-06-5	9/19/2012	1356	-0.01	-0.04	0.0	0.0	0.1	20.8	0.8	2.3	0.0	2.3	
VMP-06-5	10/17/2012	1332	-0.02	-0.08	0.0	0.0	0.1	20.8	0.3	1.9	0.0	1.9	
VMP-06-5	11/20/2012	1100	-0.01	0.00	0.0	0.0	0.0	20.9	0.1	0.7	0.0	0.7	
VMP-06-5	12/19/2012	1138	-0.02	-0.01	0.0	0.0	0.0	20.9	0.1	0.3	0.0	0.3	
VMP-06-10	2/2/2012	1402	-0.26	-0.14	0.0	0.0	6.8	13.0	0.3	0.0	0.0	0.0	
VMP-06-10	2/3/2012	905	-0.12	-0.16	0.0	0.0	6.0	14.7	0.5	0.0	0.0	0.0	
VMP-06-10	2/7/2012	943	-0.29	-0.24	0.0	0.0	4.1	18.8	0.2	0.0	0.0	0.0	
VMP-06-10	2/15/2012	1331	-0.19	-0.09	0.0	0.0	2.4	20.0	0.3	2.8	0.0	2.8	
VMP-06-10	2/22/2012	1104	-0.12	- 0.08	0.0	0.0	2.1	20.0	0.3	0.0	0.0	0.0	
VMP-06-10	2/29/2012	945	-0.12	- 0.11	0.0	0.0	2.8	17.6	0.5	0.0	0.0	0.0	
VMP-06-10	3/21/2012	1001	-0.08	- 0.04	0.0	0.0	2.2	18.4	0.2	0.0	0.0	0.0	
VMP-06-10	4/18/2012	956	-0.17	-0.12	0.0	0.0	1.8	19.7	0.6	4.5	0.0	4.5	
VMP-06-10	5/16/2012	1217	-0.19	-0.15	0.0	0.0	1.8	19.2	0.5	0.0	0.0	0.0	
VMP-06-10	6/20/2012	1019	-0.12	-0.12	0.0	0.0	1.9	19.0	0.5	2.0	0.0	2.0	
VMP-06-10	7/18/2012	951	-0.12	-0.12	0.0	0.0	1.4	19.8	0.5	0.0	0.0	0.0	
VMP-06-10	8/15/2012	936	-0.09	-0.11	0.0	0.0	1.2	19.8	0.6	2.2	0.0	2.2	
VMP-06-10	9/19/2012	1357	-0.05	-0.11	0.0	0.0	0.8	20.1	0.7	1.5	0.0	1.5	
VMP-06-10	10/17/2012	1333	-0.09	-0.11	0.0	0.0	0.5	20.4	0.4	0.5	0.0	0.5	
VMP-06-10	11/20/2012	1103	-0.04	-0.22	0.0	0.0	0.3	20.6	0.1	0.1	0.0	0.1	
VMP-06-10	12/19/2012	1139	-0.05	-0.03	0.0	0.0	0.3	20.7	0.1	0.2	0.0	0.2	
VMP-06-31.5	2/2/2012	1408	-0.17	-0.26	OVR	OVR	12.5	3.0	321	69,600	41,500	28,100	
VMP-06-31.5	2/3/2012	910	-0.26	-0.31	84.6	OVR	14.2	0.9	267	60,730	42,300	18,430	
VMP-06-31.5	2/7/2012	948	-0.36	-0.24	50.3	OVR	13.7	1.6	251	27,800	20,450	7,350	
VMP-06-31.5	2/15/2012	1332	-0.19	0.00	48.5	OVR	12.9	1.6	113	36,400	20,140	16,260	
VMP-06-31.5	2/22/2012	1109	0.00	- 0.01	33.3	OVR	13.3	0.6	354	18,800	15,040	3,760	
VMP-06-31.5	2/29/2012	949	-0.28	- 0.26	21.6	OVR	12.4	1.4	350	17,880	10,600	7,280	
VMP-06-31.5	3/21/2012	1006	-0.19	- 0.06	10.1	OVR	12.6	0.2	365	9,200	4,230	4,970	
VMP-06-31.5	4/18/2012	1000	-1.14	-0.20	1.2	24.0	9.8	4.1	205	1,780	900	880	
VMP-06-31.5	5/16/2012	1217	-0.40	-0.33	0.0	0.0	10.9	3.5	41.6	279	143	136	
VMP-06-31.5	6/20/2012	1020	-0.30	-0.30	0.0	0.0	9.6	5.5	14.0	84.0	35.0	49.0	
VMP-06-31.5	7/18/2012	952	-0.29	-0.30	0.0	0.0	7.3	9.1	4.0	44.1	41.2	2.9	
VMP-06-31.5	8/15/2012	950	-0.25	-0.25	0.0	0.0	6.5	9.6	2.0	6.6	5.0	1.6	
VMP-06-31.5	9/19/2012	1358	-0.14	-0.23	0.0	0.0	6.5	10.6	1.5	5.3	2.0	3.3	
VMP-06-31.5	10/17/2012	1334	-0.25	-0.22	0.0	0.0	6.9	11.0	1.5	15.6	15.6	0.0	
VMP-06-31.5	11/20/2012	1106	-0.27	-0.24	0.0	0.0	6.4	12.4	0.6	20.2	20.2	0.0	
VMP-06-31.5	12/19/2012	1140	-0.09	-0.04	0.0	0.0	6.6	12.4	0.3	27.2	27.2	0.0	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-06-39	2/2/2012	1420	0.00	0.08	OVR	OVR	14.3	1.0	343	94,000	52,500	41,500	
VMP-06-39	2/3/2012	916	-0.38	-0.48	OVR	OVR	14.5	0.9	287	62,500	42,000	20,500	
VMP-06-39	2/7/2012	952	-0.34	-0.42	67.2	OVR	14.4	0.7	265	43,150	29,480	13,670	
VMP-06-39	2/15/2012	1333	-0.33	0.04	41.0	OVR	13.0	1.4	279	37,000	23,630	13,370	
VMP-06-39	2/22/2012	1114	0.01	- 0.04	29.3	OVR	13.1	1.5	324	24,800	16,730	8,070	
VMP-06-39	2/29/2012	953	-0.31	- 0.26	OVR	OVR	12.2	2.0	103	348,000	285,000	63,000	
VMP-06-39	3/21/2012	NA	-0.32	0.09	16.9	OVR	12.8	0.1	422	13,600	5,860	7,740	
VMP-06-39	4/18/2012	1004	-0.36	-0.24	4.5	91.0	12.0	0.6	375	3,900	1,400	2,500	
VMP-06-39	5/16/2012	1217	-0.39	-0.31	0.5	10.0	12.1	1.5	117	770	322	448	
VMP-06-39	6/20/2012	1021	-0.29	-0.30	0.0	0.0	11.0	4.2	21.0	203	147	56	
VMP-06-39	7/18/2012	953	-0.29	-0.30	0.0	0.0	9.6	5.7	6.7	94.6	69.2	25.4	
VMP-06-39	8/15/2012	944	-0.25	-0.24	0.1	2.0	10.3	3.8	43.3	313	313	0.0	
VMP-06-39	9/19/2012	1359	-0.15	-0.23	0.0	0.0	10.7	4.1	16.2	79.4	48.0	31.4	
VMP-06-39	10/17/2012	1335	-0.25	-0.22	0.0	0.0	11.0	4.6	4.3	35.1	13.4	21.7	
VMP-06-39	11/20/2012	1109	-0.28	-0.24	0.0	0.0	12.8	6.3	1.0	27.6	15.9	11.7	
VMP-06-39	12/19/2012	1141	-0.09	-0.05	2.3	46.0	12.6	4.8	126	5000	3600	1,400	
VMP-07-5	2/6/2012	1039	-0.14	-0.08	0.0	0.0	5.6	16.3	1.6	0.5	0.0	0.5	
VMP-07-5	2/7/2012	1028	-0.11	-0.12	0.0	0.0	3.7	19.8	4.0	6.6	0.0	6.6	
VMP-07-5	2/8/2012	921	-0.18	-0.19	0.0	0.0	2.5	20.3	2.0	2.7	0.0	2.7	
VMP-07-5	2/15/2012	1410	-0.02	-0.19	0.0	0.0	0.8	20.8	1.2	4.7	0.0	4.7	
VMP-07-5	2/22/2012	1029	-0.05	0.00	0.0	0.0	0.6	20.9	1.2	9.2	7.9	1.3	
VMP-07-5	2/29/2012	1023	-0.08	- 0.07	0.0	0.0	1.5	18.9	1.5	1.4	0.0	1.4	
VMP-07-5	3/21/2012	1029	-0.04	- 0.02	0.0	0.0	0.9	19.5	0.8	0.0	0.0	0.0	
VMP-07-5	4/18/2012	1023	-0.09	-0.23	0.0	0.0	0.5	20.5	0.9	4.7	0.0	4.7	
VMP-07-5	5/16/2012	1407	-0.04	-0.05	0.0	0.0	0.2	20.6	1.0	1.8	0.0	1.8	
VMP-07-5	6/20/2012	945	-0.03	-0.04	0.0	0.0	0.4	20.3	0.4	2.2	0.0	2.2	
VMP-07-5	7/18/2012	1324	0.00	0.00	0.0	0.0	0.3	20.3	0.5	3.5	0.0	3.5	
VMP-07-5	8/15/2012	902	-0.05	-0.23	0.0	0.0	0.5	20.4	0.5	3.9	0.0	3.9	
VMP-07-5	9/19/2012	1426	0.00	-0.03	0.0	0.0	0.3	20.6	0.6	3.0	0.0	3.0	
VMP-07-5	10/17/2012	1025	-0.16	-0.11	0.0	0.0	0.3	20.5	0.3	1.3	0.0	1.3	
VMP-07-5	11/20/2012	1325	-0.06	-0.11	0.0	0.0	0.3	20.5	0.1	0.3	0.0	0.3	
VMP-07-5	12/19/2012	1247	-0.02	-0.01	0.0	0.0	0.3	20.7	0.1	0.9	0.0	0.9	
VMP-07-13.5	2/6/2012	1045	-0.32	-0.14	0.0	1.0	6.2	15.4	1.2	0.0	0.0	0.0	
VMP-07-13.5	2/7/2012	1049	-0.20	-0.24	0.0	0.0	4.4	18.6	4.2	4.6	0.0	4.6	
VMP-07-13.5	2/8/2012	926	-0.35	-0.36	0.0	0.0	2.8	19.8	1.9	1.5	0.0	1.5	
VMP-07-13.5	2/15/2012	1411	-0.04	-0.30	0.0	0.0	1.2	20.1	1.2	4.9	0.0	4.9	
VMP-07-13.5	2/22/2012	1035	-0.08	- 0.3	0.0	0.0	1.1	20.1	1.3	6.9	0.0	6.9	
VMP-07-13.5	2/29/2012	1027	-0.15	- 0.16	0.0	0.0	1.8	18.9	1.4	0.9	0.0	0.9	
VMP-07-13.5	3/21/2012	1033	-0.09	- 0.02	0.0	0.0	1.0	19.3	1.0	0.0	0.0	0.0	
VMP-07-13.5	4/18/2012	1026	-0.18	-0.15	0.0	0.0	0.6	20.3	0.8	4.1	0.0	4.1	
VMP-07-13.5	5/16/2012	1413	-0.18	-0.19	0.0	0.0	0.8	20.1	0.9	0.0	0.0	0.0	
VMP-07-13.5	6/20/2012	946	-0.18	-0.18	0.0	0.0	0.9	19.9	0.5	1.4	0.0	1.4	
VMP-07-13.5	7/18/2012	1325	-0.02	0.00	0.0	0.0	1.2	19.5	0.7	2.5	0.0	2.5	
VMP-07-13.5	8/15/2012	906	-0.17	-0.17	0.0	0.0	1.2	19.9	0.5	2.5	0.0	2.5	
VMP-07-13.5	9/19/2012	1429	-0.14	-0.12	0.0	0.0	0.7	20.2	0.5	1.8	0.0	1.8	
VMP-07-13.5	10/17/2012	1026	-0.27	-0.25	0.0	0.0	0.6	20.4	0.6	0.7	0.0	0.7	
VMP-07-13.5	11/20/2012	1328	-0.18	-0.24	0.0	0.0	0.3	20.5	0.2	0.5	0.0	0.5	
VMP-07-13.5	12/19/2012	1248	0.02	-0.01	0.0	0.0	0.3	20.5	0.3	0.1	0.0	0.1	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-07-29.5	2/6/2012	1049	-0.60	-0.24	3.4	69.0	16.1	1.0	179	12,300	8,000	4,300	
VMP-07-29.5	2/7/2012	1039	-0.38	-0.54	2.5	50.0	16.0	1.2	161	5,470	4,230	1,240	
VMP-07-29.5	2/8/2012	930	-0.46	-0.10	1.3	26.0	16.2	0.8	136	3,830	2,980	850	
VMP-07-29.5	2/15/2012	1412	0.12	-0.21	0.3	7.0	15.1	1.2	76.2	1,030	805	225	
VMP-07-29.5	2/22/2012	1039	0.08	- 0.07	0.0	0.0	13.5	2.9	15.0	161	95.1	66.1	
VMP-07-29.5	2/29/2012	1031	-0.20	- 0.21	0.0	0.0	11.6	5.5	17.6	85.2	62.7	22.5	
VMP-07-29.5	3/21/2012	1036	-0.01	- 0.03	0.0	0.0	10.9	5.4	19.4	385	262	123	
VMP-07-29.5	4/18/2012	1030	-0.23	-0.18	0.0	0.0	8.1	12.2	1.2	10.2	5.4	4.8	
VMP-07-29.5	5/16/2012	1417	-0.22	-0.22	0.0	0.0	6.3	15.2	2.0	1.5	0.0	1.5	
VMP-07-29.5	6/20/2012	947	-0.21	-0.23	0.0	0.0	5.8	15.8	0.9	2.7	0.0	2.7	
VMP-07-29.5	7/18/2012	1326	-0.02	0.00	0.0	0.0	5.1	16.4	1.2	4.2	0.0	4.2	
VMP-07-29.5	8/15/2012	911	-0.22	-0.23	0.0	0.0	5.5	16.2	0.8	10.2	9.3	0.8	
VMP-07-29.5	9/19/2012	1429	-0.18	-0.15	0.0	0.0	4.8	16.5	0.7	4.8	0.0	4.8	
VMP-07-29.5	10/17/2012	1026	-0.34	-0.31	0.0	0.0	4.5	17.0	0.4	2.3	0.0	2.3	
VMP-07-29.5	11/20/2012	1331	-0.25	-0.31	0.0	0.0	3.8	17.1	0.5	1.5	0.0	1.5	
VMP-07-29.5	12/19/2012	1249	-0.18	-0.02	0.0	0.0	4.2	17.2	0.2	3.5	0.0	3.5	
VMP-07-38	2/6/2012	1054	-0.32	-0.16	5.9	OVR	16.0	1.2	232	11,490	11,070	420	
VMP-07-38	2/7/2012	1044	-0.24	-0.28	5.6	OVR	15.9	1.4	259	7,940	5,800	2,140	
VMP-07-38	2/8/2012	935	-0.42	-0.44	2.5	57.0	15.6	1.7	214	6,980	4,460	2,520	
VMP-07-38	2/15/2012	1413	-0.02	-0.36	0.0	1.0	13.6	1.8	16.2	715	696	19.4	
VMP-07-38	2/22/2012	1044	-0.08	0.00	0.2	5.0	14.9	1.0	78.7	395	145	250	
VMP-07-38	2/29/2012	1035	-0.18	0.00	0.3	7.0	14.3	1.0	87.1	403	110	293	
VMP-07-38	3/21/2012	1040	-0.12	- 0.04	0.0	0.0	13.0	2.5	26.8	416	284	132	
VMP-07-38	4/18/2012	1110	-0.21	-0.10	0.0	0.0	7.0	13.0	6.8	11.0	6.0	5.0	
VMP-07-38	5/16/2012	1422	-0.03	-0.06	0.0	0.0	0.5	20.4	0.7	0.5	0.0	0.5	
VMP-07-38	6/20/2012	948	-0.06	-0.06	0.0	0.0	0.8	20.0	0.4	3.5	0.0	3.5	
VMP-07-38	7/18/2012	1327	0.00	0.00	0.0	0.0	0.1	20.7	1.0	4.7	0.0	4.7	
VMP-07-38	8/15/2012	916	-0.04	-0.04	0.0	0.0	0.4	20.5	0.6	3.7	0.0	3.7	
VMP-07-38	9/19/2012	1429	-0.23	-0.03	0.0	0.0	0.5	20.1	0.7	3.4	0.0	3.4	
VMP-07-38	10/17/2012	1030	0.00	-0.13	0.0	0.0	0.8	20.1	0.6	2.2	0.0	2.2	
VMP-07-38	11/20/2012	1334	-0.16	-0.17	0.0	0.0	3.2	18.0	0.4	2.8	0.0	2.8	
VMP-07-38	12/19/2012	1250	-0.03	0.00	0.0	0.0	0.9	20.2	0.1	1.8	0.0	1.8	
VMP-09-5	2/6/2012	1108	-0.02	0.00	0.0	0.0	2.0	19.0	1.2	1.0	0.0	1.0	
VMP-09-5	2/7/2012	1100	-0.50	0.00	0.0	0.0	1.4	19.9	1.8	0.3	0.0	0.3	
VMP-09-5	2/8/2012	949	-0.07	-0.01	0.0	0.0	0.9	20.6	0.5	0.0	0.0	0.0	
VMP-09-5	2/15/2012	1458	-0.03	-0.02	0.0	0.0	0.8	20.8	0.9	4.1	0.0	4.1	
VMP-09-5	2/22/2012	1127	0.00	0.00	0.0	0.0	1.0	20.5	1.2	4.3	0.0	4.3	
VMP-09-5	2/29/2012	1319	0.00	- 0.05	0.0	0.0	1.5	19.7	1.5	20.7	1.4	19.3	
VMP-09-5	3/21/2012	1052	-0.01	- 0.01	0.0	0.0	0.8	19.6	0.7	0.0	0.0	0.0	
VMP-09-5	4/18/2012	1051	-0.01	0.00	0.0	0.0	0.3	20.6	0.4	3.0	0.0	3.0	
VMP-09-5	5/16/2012	1303	0.00	-0.04	0.0	0.0	0.4	20.4	0.7	0.0	0.0	0.0	
VMP-09-5	6/20/2012	906	0.00	-0.02	0.0	0.0	0.7	20.1	0.5	2.3	0.0	2.3	
VMP-09-5	7/18/2012	906	-0.02	NM	0.0	0.0	0.5	20.4	0.4	1.4	0.0	1.4	
VMP-09-5	8/15/2012	835	-0.04	-0.02	0.0	0.0	0.5	20.3	0.6	3.2	0.0	3.2	
VMP-09-5	9/19/2012	1131	-0.02	-0.02	0.0	0.0	0.7	20.1	0.5	1.6	0.0	1.6	
VMP-09-5	10/17/2012	1320	-0.01	0.00	0.0	0.0	0.3	20.5	0.6	0.8	0.0	0.8	
VMP-09-5	11/20/2012	1355	-0.04	-0.01	0.0	0.0	0.2	20.7	0.4	0.7	0.0	0.7	
VMP-09-5	12/19/2012	1208	-0.01	0.00	0.0	0.0	0.2	20.8	0.1	0.5	0.0	0.5	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-09-11.5	2/6/2012	1114	-0.05	-0.02	0.0	0.0	6.1	14.3	1.5	0.1	0.0	0.1	
VMP-09-11.5	2/7/2012	1105	-0.13	-0.07	0.0	0.0	4.5	16.8	2.2	0.0	0.0	0.0	
VMP-09-11.5	2/8/2012	954	-0.17	-0.14	0.0	0.0	3.3	18.6	0.7	0.0	0.0	0.0	
VMP-09-11.5	2/15/2012	1459	-0.11	-0.05	0.0	0.0	2.1	19.9	0.8	3.4	0.0	3.4	
VMP-09-11.5	2/22/2012	1131	0.00	0.02	0.0	0.0	2.5	19.0	1.2	1.9	0.0	1.9	
VMP-09-11.5	2/29/2012	1324	0.00	- 0.05	0.0	0.0	0.2	20.9	1.2	14.3	2.2	12.1	
VMP-09-11.5	3/21/2012	1056	-0.04	0.00	0.0	0.0	1.1	19.4	0.6	0.0	0.0	0.0	
VMP-09-11.5	4/18/2012	1056	-0.07	-0.06	0.0	0.0	0.8	20.1	0.4	2.7	0.0	2.7	
VMP-09-11.5	5/16/2012	1303	-0.05	-0.04	0.0	0.0	1.2	19.7	0.9	0.0	0.0	0.0	
VMP-09-11.5	6/20/2012	907	-0.08	-0.50	0.0	0.0	1.4	19.9	0.4	0.8	0.0	0.8	
VMP-09-11.5	7/18/2012	907	-0.12	-0.02	0.0	0.0	1.2	19.8	0.5	0.7	0.0	0.7	
VMP-09-11.5	8/15/2012	840	-0.11	-0.08	0.0	0.0	1.1	19.7	0.5	2.7	0.0	2.7	
VMP-09-11.5	9/19/2012	1132	-0.09	-0.10	0.0	0.0	1.0	19.8	0.7	0.9	0.0	0.9	
VMP-09-11.5	10/17/2012	1321	-0.07	-0.05	0.0	0.0	0.6	20.1	0.4	0.9	0.0	0.9	
VMP-09-11.5	11/20/2012	1358	-0.14	-0.45	0.0	0.0	0.3	20.6	0.2	0.3	0.0	0.3	
VMP-09-11.5	12/19/2012	1209	-0.01	0.06	0.0	0.0	0.4	20.4	0.1	0.3	0.0	0.3	
VMP-09-25.5	2/6/2012	1119	-0.12	-0.07	0.0	0.0	14.9	2.0	1.6	55.0	46.6	8.4	
VMP-09-25.5	2/7/2012	1110	-0.28	-0.19	0.0	0.0	13.6	4.3	2.6	0.1	0.0	0.1	
VMP-09-25.5	2/8/2012	959	-0.38	-0.32	0.0	0.0	11.7	7.3	0.8	0.0	0.0	0.0	
VMP-09-25.5	2/15/2012	1500	-0.25	-0.11	0.0	0.0	9.5	11.1	0.8	81.0	59.0	22.0	
VMP-09-25.5	2/22/2012	1136	0.07	0.05	0.0	0.0	10.1	11.4	1.7	14.4	11.0	3.4	
VMP-09-25.5	2/29/2012	1328	0.00	- 0.02	0.0	0.0	8.4	13.0	2.0	4.2	0.0	4.2	
VMP-09-25.5	3/21/2012	1059	-0.10	0.00	0.0	0.0	5.9	14.6	0.8	0.0	0.0	0.0	
VMP-09-25.5	4/18/2012	1059	-0.16	-0.15	0.0	0.0	3.1	18.5	0.3	2.6	0.0	2.6	
VMP-09-25.5	5/16/2012	1303	-0.16	-0.15	0.0	0.0	2.7	18.2	0.5	0.0	0.0	0.0	
VMP-09-25.5	6/20/2012	908	-0.26	-0.19	0.0	0.0	2.7	18.3	0.4	0.7	0.0	0.7	
VMP-09-25.5	7/18/2012	908	-0.28	-0.31	0.0	0.0	2.9	18.5	0.6	0.0	0.0	0.0	
VMP-09-25.5	8/15/2012	845	-0.25	-0.19	0.0	0.0	2.8	18.7	0.4	2.0	0.0	2.0	
VMP-09-25.5	9/19/2012	1133	-0.23	-0.21	0.0	0.0	2.2	18.9	0.8	1.1	0.0	1.1	
VMP-09-25.5	10/17/2012	1322	-0.17	-0.12	0.0	0.0	1.8	19.4	0.4	0.9	0.0	0.9	
VMP-09-25.5	11/20/2012	1401	-0.31	-0.34	0.0	0.0	1.2	20.0	0.3	0.7	0.0	0.7	
VMP-09-25.5	12/19/2012	1210	-0.01	0.11	0.0	0.0	1.8	19.7	0.2	0.2	0.0	0.2	
VMP-09-38.5	2/6/2012	1123	-0.12	-0.04	0.5	10.0	16.3	0.7	39.3	3,100	3,080	20	
VMP-09-38.5	2/7/2012	1115	-0.26	-0.18	0.3	6.0	15.8	1.0	41.0	1,800	1,280	520	
VMP-09-38.5	2/8/2012	1003	-0.37	-0.31	0.1	3.0	15.2	2.0	29.7	1,000	790	210	
VMP-09-38.5	2/15/2012	1501	-0.43	-0.31	0.0	0.0	14.7	1.4	12.0	190	139	50.8	
VMP-09-38.5	2/22/2012	1141	0.22	- 0.21	0.0	0.0	14.5	1.1	17.8	59.6	32.2	27.4	
VMP-09-38.5	2/29/2012	1332	-0.09	- 0.18	0.0	0.0	13.5	2.9	10.5	92.6	63.8	28.8	
VMP-09-38.5	3/21/2012	1109	-0.08	0.00	0.0	0.0	11.5	8.2	1.5	0.0	0.0	0.0	
VMP-09-38.5	4/18/2012	1102	-0.16	-0.15	0.0	0.0	7.2	14.6	0.8	5.2	0.0	5.2	
VMP-09-38.5	5/16/2012	1303	-0.16	-0.15	0.0	0.0	6.2	15.6	0.8	0.0	0.0	0.0	
VMP-09-38.5	6/20/2012	909	-0.29	-0.18	0.0	0.0	5.3	15.9	0.7	1.8	0.0	1.8	
VMP-09-38.5	7/18/2012	909	-0.29	-0.21	0.0	0.0	5.5	16.1	0.7	0.5	0.0	0.5	
VMP-09-38.5	8/15/2012	850	-0.25	-0.19	0.0	0.0	5.7	16.6	0.5	4.9	0.0	4.9	
VMP-09-38.5	9/19/2012	1134	-0.20	-0.23	0.0	0.0	5.7	14.7	0.9	2.3	0.0	2.3	
VMP-09-38.5	10/17/2012	1323	-0.18	-0.09	0.0	0.0	6.3	13.8	12.1	65.9	23.5	42.4	
VMP-09-38.5	11/20/2012	1404	-0.32	-0.35	0.0	0.0	5.5	15.9	0.4	1.0	0.0	1.0	
VMP-09-38.5	12/19/2012	1211	-0.02	0.14	0.0	0.0	5.9	15.5	0.2	0.9	0.0	0.9	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-12-5	2/6/2012	1020	-0.14	-0.07	23.1	OVR	11.9	1.0	35.9	125,000	100,000	25,000	
VMP-12-5	2/7/2012	822	-0.29	-0.21	0.1	3.0	10.8	4.5	21.3	912	880	31.9	
VMP-12-5	2/8/2012	826	-0.28	-0.26	0.0	0.0	5.6	16.6	4.5	9.1	0.0	9.1	
VMP-12-5	2/15/2012	850	-0.12	-0.19	0.0	0.0	3.1	18.0	15.0	101	8.1	92.9	
VMP-12-5	2/22/2012	1025	0.08	0.05	1.8	36.0	4.2	9.4	21.8	15,310	12,780	2,530	
VMP-12-5	2/29/2012	1409	0.07	0.08	OVR	OVR	8.9	1.1	31.1	884,000	790,000	94,000	
VMP-12-5	3/6/2012	925	-0.05	- 0.02	0.2	5.0	8.5	5.0	2.6	1,300	1,300	0.0	Benzene Reading: 2.8ppm
VMP-12-5	3/7/2012	850	-0.07	- 0.03	8.9	OVR	9.2	2.8	15.7	49,330	35,700	13,630	Benzene Reading: 0.0ppm
VMP-12-5	3/21/2012	840	-0.23	- 0.36	0.0	0.0	4.2	12.6	0.4	339	176	163	
VMP-12-5	4/18/2012	1120	-0.35	-0.25	0.0	0.0	2.6	15.3	1.3	4.4	0.0	4.4	
VMP-12-5	5/16/2012	821	-1.28	-1.20	0.0	0.0	2.5	18.5	2.9	3.9	0.0	3.9	
VMP-12-5	6/20/2012	900	-0.28	-0.23	0.0	0.0	0.4	20.5	0.8	0.5	0.0	0.5	
VMP-12-5	7/18/2012	935	-0.20	-0.17	0.0	0.0	0.1	20.8	0.7	3.1	0.0	3.1	
VMP-12-5	8/15/2012	846	-0.30	-0.26	0.0	0.0	0.2	20.8	0.5	4.4	0.0	4.4	
VMP-12-5	9/19/2012	925	-0.65	-0.48	0.0	0.0	0.3	20.2	0.4	1.6	0.0	1.6	
VMP-12-5	10/17/2012	859	-0.54	-0.49	0.0	0.0	0.1	20.8	0.2	1.2	0.0	1.2	
VMP-12-5	11/20/2012	923	-0.79	-0.70	0.0	0.0	0.0	20.9	0.5	2.9	0.0	2.9	
VMP-12-5	12/19/2012	830	-0.46	-0.48	0.0	0.0	0.3	20.1	0.1	0.3	0.0	0.3	
VMP-12-11.5	2/6/2012	1021	-0.25	-0.17	23.4	OVR	13.7	1.3	28.6	108,000	100,000	8,000	
VMP-12-11.5	2/7/2012	823	-0.67	-0.37	0.1	2.0	7.0	15.2	9.6	1,085	744	341	
VMP-12-11.5	2/8/2012	827	-0.56	-0.48	0.0	0.0	3.1	18.3	4.5	831	807	24.5	
VMP-12-11.5	2/15/2012	851	-0.20	-0.17	2.1	43.0	6.3	12.0	9.4	20,750	18,300	2,450	
VMP-12-11.5	2/22/2012	1026	0.13	0.11	OVR	OVR	10.7	3.9	34.5	748,000	748,000	0.0	
VMP-12-11.5	2/29/2012	1410	0.13	0.09	OVR	OVR	11.2	3.2	32.4	1,000,000	1,000,000	0.0	
VMP-12-11.5	3/6/2012	928	-0.13	- 0.09	OVR	OVR	10.9	1.9	30.0	1,000,000	504,000	496,000	Benzene Reading: 6.9ppm
VMP-12-11.5	3/7/2012	851	-0.10	- 0.07	67.2	OVR	9.0	1.9	28.3	185,000	73,000	112,000	Benzene Reading: 5.7ppm
VMP-12-11.5	3/21/2012	841	-0.50	- 0.05	0.8	16.0	4.4	14.7	0.5	8,400	8,400	0.0	
VMP-12-11.5	4/18/2012	1121	-0.43	-0.36	1.6	33.0	7.8	8.4	4.4	18,000	16,100	1,900	
VMP-12-11.5	5/16/2012	821	-0.72	-0.69	0.0	0.0	1.7	19.0	3.9	36.4	12.2	24.2	
VMP-12-11.5	6/20/2012	904	-0.65	-0.54	0.0	0.0	0.4	20.4	0.4	0.0	0.0	0.0	
VMP-12-11.5	7/18/2012	939	-0.52	-0.46	0.0	0.0	0.1	20.8	0.8	3.2	0.0	3.2	
VMP-12-11.5	8/15/2012	850	-0.57	-0.48	0.0	0.0	0.2	20.8	0.6	3.6	0.0	3.6	
VMP-12-11.5	9/19/2012	925	-0.98	-0.80	0.0	0.0	0.1	20.7	0.9	3.3	0.0	3.3	
VMP-12-11.5	10/17/2012	900	-0.90	-0.74	0.0	0.0	0.1	20.9	0.3	2.3	0.0	2.3	
VMP-12-11.5	11/20/2012	924	-1.30	-1.16	0.0	0.0	0.0	20.9	0.6	2.4	0.0	2.4	
VMP-12-11.5	12/19/2012	834	-0.55	-0.61	0.0	0.0	0.3	20.6	0.1	0.6	0.0	0.6	
VMP-12-25	2/6/2012	1022	-0.43	-0.21	OVR	OVR	12.8	0.9	76.3	1,000,000	453,000	547,000	
VMP-12-25	2/7/2012	824	-0.85	-0.43	OVR	OVR	12.1	2.0	69.6	821,000	525,000	296,000	
VMP-12-25	2/8/2012	828	-0.59	-0.50	OVR	OVR	12.1	1.5	67.1	684,000	598,000	86,000	
VMP-12-25	2/15/2012	852	-0.19	-0.37	OVR	OVR	12.2	1.5	50.0	850,000	850,000	0.0	
VMP-12-25	2/22/2012	1027	0.18	0.16	OVR	OVR	12.0	1.3	50.3	1,000,000	1,000,000	0.0	
VMP-12-25	2/29/2012	1411	-0.44	-0.34	OVR	OVR	12.4	1.5	50.3	1,000,000	950,000	50,000	
VMP-12-25	3/6/2012	931	-0.55	- 0.34	OVR	OVR	11.5	1.3	51.6	1,000,000	1,000,000	0.0	Benzene Reading: 23.0ppm
VMP-12-25	3/7/2012	852	-0.30	- 0.17	OVR	OVR	12.1	1.7	43.7	957,000	666,000	291,000	Benzene Reading: 19.4ppm
VMP-12-25	3/21/2012	842	-0.60	- 0.62	OVR	OVR	11.5	0.5	37.8	1,000,000	1,000,000	0.0	
VMP-12-25	4/18/2012	1122	-0.54	-0.46	OVR	OVR	9.5	1.0	45.0	624,000	444,000	180,000	
VMP-12-25	5/16/2012	822	-0.86	-0.83	OVR	OVR	9.1	2.1	46.1	271,000	222,000	49,000	
VMP-12-25	6/20/2012	908	-0.88	-0.73	48.3	OVR	9.4	1.4	62.0	108,000	83,000	25,000	
VMP-12-25	7/18/2012	949	-0.80	-0.68	30.4	OVR	10.1	1.8	74.5	58,500	46,700	11,800	
VMP-12-25	8/15/2012	855	-0.93	-0.77	12.7	OVR	13.7	0.7	84.0	20,800	20,200	600	
VMP-12-25	9/19/2012	925	-1.51	-1.30	0.9	18.0	12.4	3.8	29.2	8,000	6,100	1,900	
VMP-12-25	10/17/2012	901	-1.29	-1.17	11.5	OVR	13.5	0.7	98.5	24,100	18,400	5,700	
VMP-12-25	11/20/2012	929	-1.96	-1.84	0.1	2.0	6.0	11.1	24.9	324	83.00	241	
VMP-12-25	12/19/2012	838	-0.67	-0.77	23.2	OVR	13.1	1.1	46.9	106,000	91,000	15,000	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-12-39	2/6/2012	1023	-0.07	0.07	OVR	OVR	12.9	1.0	69.8	1,000,000	772,000	228,000	
VMP-12-39	2/7/2012	825	-0.48	-0.40	OVR	OVR	12.3	2.0	57.1	881,000	867,000	14,000	
VMP-12-39	2/8/2012	829	-0.60	-0.51	OVR	OVR	12.2	2.0	60.1	802,000	494,000	308,000	
VMP-12-39	2/15/2012	853	-0.19	-0.39	OVR	OVR	12.5	1.0	45.7	1,000,000	1,000,000	0.0	
VMP-12-39	2/22/2012	1028	0.17	0.20	OVR	OVR	12.3	1.2	40.9	1,000,000	1,000,000	0.0	
VMP-12-39	2/29/2012	1412	-0.06	0.09	OVR	OVR	11.8	2.5	47.3	1,000,000	1,000,000	0.0	
VMP-12-39	3/6/2012	935	-0.03	- 0.03	OVR	OVR	11.8	1.3	57.5	1,000,000	520,000	480,000	Benzene Reading: 27.5ppm
VMP-12-39	3/7/2012	853	-0.10	- 0.03	OVR	OVR	11.8	1.6	49.9	1,000,000	944,000	56,000	Benzene Reading: 21.3ppm
VMP-12-39	3/21/2012	843	-0.63	- 0.66	OVR	OVR	12.3	0.7	42.4	1,000,000	1,000,000	0.0	
VMP-12-39	4/18/2012	1123	-0.58	-0.51	OVR	OVR	11.4	1.0	53.3	1,000,000	800,000	200,000	
VMP-12-39	5/16/2012	822	-0.93	-0.89	OVR	OVR	10.9	1.5	100	480,000	430,000	50,000	
VMP-12-39	6/20/2012	912	-0.92	-0.79	OVR	OVR	10.1	1.9	117	321,000	285,000	36,000	
VMP-12-39	7/18/2012	944	-0.85	-0.72	OVR	OVR	10.8	1.7	68.0	224,000	180,000	44,000	
VMP-12-39	8/15/2012	900	-0.93	-0.83	OVR	OVR	12.8	0.6	156	142,000	122,000	20,000	
VMP-12-39	9/19/2012	925	-1.57	-1.36	OVR	OVR	13.6	1.5	202	201,000	176,000	25,000	
VMP-12-39	10/17/2012	902	-1.37	-1.24	OVR	OVR	14.0	1.1	151	136,000	118,000	18,000	
VMP-12-39	11/20/2012	930	-2.07	-1.99	69.3	OVR	13.7	0.8	189	146,000	117,000	29,000	
VMP-12-39	12/19/2012	842	-0.71	-0.81	85.0	OVR	14.5	0.8	135	260,000	200,000	60,000	
VMP-17-5	3/6/2012	1333	-0.05	- 0.02	0.0	0.0	1.1	20.4	0.2	1.1	0.0	1.1	Benzene Reading: 0.0ppm
VMP-17-5	3/7/2012	1003	0.00	0.03	0.0	0.0	1.2	20.6	0.4	0.0	0.0	0.0	Benzene Reading: 0.0ppm
VMP-17-5	3/21/2012	1310	0.00	0.00	0.0	0.0	1.2	19.7	1.1	0.0	0.0	0.0	
VMP-17-5	4/18/2012	1131	0.00	0.00	0.0	0.0	1.0	20.5	0.7	4.9	0.0	4.9	
VMP-17-5	5/16/2012	1326	-0.02	-0.01	0.0	0.0	1.2	19.8	0.6	0.0	0.0	0.0	
VMP-17-5	6/20/2012	813	0.00	0.00	0.0	0.0	0.9	20.1	0.1	0.0	0.0	0.0	
VMP-17-5	7/18/2012	837	-0.01	-0.01	0.0	0.0	0.6	20.5	0.4	0.6	0.0	0.6	
VMP-17-5	8/15/2012	820	-0.01	0.00	0.0	0.0	0.5	20.6	0.5	2.4	0.0	2.4	
VMP-17-5	9/19/2012	1117	0.00	0.00	0.0	0.0	0.4	20.5	0.5	1.5	0.0	1.5	
VMP-17-5	10/17/2012	1345	0.00	0.00	0.0	0.0	0.4	20.5	0.4	1.2	0.0	1.2	
VMP-17-5	11/20/2012	1145	-0.04	-0.03	0.0	0.0	0.2	20.8	0.2	1.4	0.0	1.4	
VMP-17-5	12/19/2012	1442	-0.01	-0.02	0.0	0.0	0.3	20.8	0.3	0.8	0.0	0.8	
VMP-19-5	3/6/2012	1315	-0.04	- 0.02	0.0	0.0	2.4	19.7	0.3	2.2	0.0	2.2	Benzene Reading: 0.0ppm
VMP-19-5	3/7/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Car parked over well. Could not sample.
VMP-19-5	3/21/2012	1315	0.00	0.00	0.0	0.0	1.8	19.8	1.0	0.0	0.0	0.0	
VMP-19-5	4/18/2012	1138	-0.03	-0.01	0.0	0.0	1.3	19.9	0.8	2.6	0.0	2.6	
VMP-19-5	5/16/2012	1443	0.00	-0.01	0.0	0.0	1.1	19.8	0.7	0.0	0.0	0.0	
VMP-19-5	6/20/2012	840	-0.03	-0.01	0.0	0.0	1.4	19.7	0.2	0.0	0.0	0.0	
VMP-19-5	7/18/2012	1259	0.00	-0.01	0.0	0.0	0.9	20.1	0.9	3.8	0.0	3.8	
VMP-19-5	8/15/2012	1030	-0.05	-0.02	0.0	0.0	0.5	20.6	0.3	3.4	0.0	3.4	
VMP-19-5	9/19/2012	1405	0.00	0.00	0.0	0.0	0.6	20.2	0.5	2.3	0.0	2.3	
VMP-19-5	10/17/2012	1039	-0.05	0.00	0.0	0.0	0.5	20.5	0.2	1.8	0.0	1.8	
VMP-19-5	11/20/2012	1133	-0.07	-0.07	0.0	0.0	0.2	20.8	0.4	1.3	0.0	1.3	
VMP-19-5	12/19/2012	1422	-0.04	-0.04	0.0	0.0	0.2	20.8	0.3	0.5	0.0	0.5	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-26-10	2/2/2012	1106	-1.36	-1.20	OVR	OVR	8.2	1.5	414.0	51,800	26,500	25,300	
VMP-26-10	2/7/2012	940	-1.21	-1.01	0.2	5.0	0.3	20.4	33.3	1,636	1,351	285	
VMP-26-10	2/10/2012	1136	-0.74	-0.98	0.0	0.0	0.1	20.6	13.0	52.9	10.7	42.2	
VMP-26-10	2/13/2012	959	-1.03	-0.80	35.1	OVR	7.1	4.2	687.0	9,420	2,060	7,360	
VMP-26-10	2/15/2012	1324	-1.22	-0.97	53.5	OVR	6.4	6.4	765.0	11,490	1,170	10,320	
VMP-26-10	2/22/2012	1103	-0.77	-0.71	0.0	0.0	0.2	20.7	23.6	33.3	12.1	21.2	
VMP-26-10	2/29/2012	1003	-0.72	-0.72	0.9	18.0	0.9	19.0	229	1,340	203	1,137	
VMP-26-10	3/21/2012	1005	-0.82	-0.70	0.3	6.0	0.4	20.2	92.6	376	43.5	333	
VMP-26-10	4/18/2012	942	-1.26	-1.10	0.3	6.0	0.5	20.1	85.6	415	15.2	400	
VMP-26-10	5/16/2012	1004	-1.30	-1.35	0.1	3.0	0.4	20.3	51.6	305	11.0	294	
VMP-26-10	6/20/2012	1024	-1.19	-1.22	0.1	2.0	0.1	20.7	26.4	121	0.0	121	
VMP-26-10	7/18/2012	1038	-1.13	-1.03	0.0	0.0	0.0	20.8	17.5	52.4	0.0	52.4	
VMP-26-10	8/15/2012	1018	-1.20	-1.20	0.0	1.0	0.4	20.6	80.0	232	34.9	197	
VMP-26-10	9/19/2012	1108	-1.75	-1.65	0.1	3.0	0.5	20.3	104.0	316	41.3	275	
VMP-26-10	10/17/2012	1012	-2.01	-2.04	0.1	3.0	1.8	18.9	103	259	36.0	223	
VMP-26-10	11/20/2012	1008	-1.78	-1.55	0.0	0.0	0.1	20.8	9.6	21.4	5.1	16.3	
VMP-26-10	12/19/2012	1128	-0.90	-0.91	0.0	0.0	0.1	20.9	0.5	3.1	0.0	3.1	
VMP-26-20	2/1/2012	1616	-0.86	-0.80	21.6	OVR	0.9	19.2	200	41,200	27,000	14,200	
VMP-26-20	2/2/2012	1110	-1.21	-1.02	OVR	OVR	7.9	3.9	69.8	858,000	425,000	433,000	
VMP-26-20	2/7/2012	940	-1.11	-0.90	0.0	0.0	0.2	20.9	36.7	221	97.9	123	
VMP-26-20	2/10/2012	1137	-0.69	-0.94	0.0	0.0	0.1	20.6	5.5	13.1	0.0	13.1	
VMP-26-20	2/13/2012	1000	-1.12	-0.85	0.4	9.0	0.1	20.9	23.6	3,220	2,812	408	
VMP-26-20	2/15/2012	1325	-1.37	-1.09	OVR	OVR	6.5	2.9	74.9	1,000,000	989,000	11,000	
VMP-26-20	2/22/2012	1104	-0.87	-0.79	0.0	0.0	0.3	20.8	14.3	51.3	3.3	48.0	
VMP-26-20	2/29/2012	1004	-0.88	-0.90	0.2	5.0	0.1	20.9	90.8	609	4.0	605	
VMP-26-20	3/21/2012	1006	-1.00	-0.82	0.0	0.0	0.1	20.9	34.3	177	3.4	174	
VMP-26-20	4/18/2012	942	-1.49	-1.31	0.0	0.0	0.0	20.9	6.0	41.0	3.0	38.0	
VMP-26-20	5/16/2012	1005	-1.73	-1.27	0.0	0.0	0.0	20.9	1.0	3.6	0.0	3.6	
VMP-26-20	6/20/2012	1025	-0.02	-1.54	0.0	0.0	0.1	20.9	18.1	101	0.0	101	
VMP-26-20	7/18/2012	1039	-1.57	-1.42	0.0	0.0	0.0	20.9	6.1	22.8	3.5	19.3	
VMP-26-20	8/15/2012	1019	-1.69	-1.65	0.0	0.0	0.0	20.9	3.8	18.8	7.4	11.4	
VMP-26-20	9/19/2012	1110	-2.45	-2.45	0.2	4.0	0.4	20.3	44.4	423	143	280	
VMP-26-20	10/17/2012	1013	-2.54	-2.56	30.9	OVR	9.0	7.3	327	11,730	7,300	4,430	
VMP-26-20	11/20/2012	1012	-2.30	-2.02	0.1	2.0	0.4	20.6	39.2	193	68.1	125	
VMP-26-20	12/19/2012	1129	-1.22	-1.18	0.0	0.0	0.0	20.9	1.4	22.2	14.3	7.9	
VMP-26-30	2/1/2012	1617	-0.74	-0.66	OVR	OVR	2.2	14.8	100	235,000	127,000	108,000	
VMP-26-30	2/2/2012	1113	-1.09	-0.89	OVR	OVR	7.2	1.1	53.8	1,000,000	1,000,000	0.0	
VMP-26-30	2/7/2012	941	-0.97	-0.76	OVR	OVR	1.1	18.0	87.3	91,500	67,700	23,800	
VMP-26-30	2/10/2012	1138	-0.54	-0.68	0.0	0.0	0.1	20.9	18.0	57.7	7.7	50.0	
VMP-26-30	2/13/2012	1001	-0.99	-0.68	0.7	15.0	0.1	20.9	135	1,180	127	1,054	
VMP-26-30	2/15/2012	1326	-1.25	-0.94	OVR	OVR	4.2	10.3	81.8	714,000	389,000	325,000	
VMP-26-30	2/22/2012	1105	-0.72	-0.67	0.0	0.0	0.3	20.8	17.7	67.7	0.0	67.7	
VMP-26-30	2/29/2012	1005	-0.85	-0.82	0.4	9.0	0.1	20.9	120	1,033	64.3	969	
VMP-26-30	3/21/2012	1006	-0.95	-0.78	0.4	8.0	0.1	20.9	75.3	521	72.6	448	
VMP-26-30	4/18/2012	943	-1.40	-1.21	0.0	1.0	0.1	20.9	8.8	126	54.0	72	
VMP-26-30	5/16/2012	1006	-1.63	-1.65	0.0	0.0	0.0	20.9	18.1	100	46.0	54	
VMP-26-30	6/20/2012	1026	-1.35	-1.36	0.0	0.0	0.0	20.9	2.0	2.2	0.0	2.2	
VMP-26-30	7/18/2012	1040	-1.44	-1.29	0.0	0.0	0.0	20.9	13.8	54.1	12.3	41.8	
VMP-26-30	8/15/2012	1010	-1.54	-1.49	0.0	0.0	0.0	20.9	7.2	38.5	12.6	25.9	
VMP-26-30	9/19/2012	1112	-2.20	-2.13	0.0	0.0	0.0	20.9	13.3	45.6	12.8	32.8	
VMP-26-30	10/17/2012	1014	-2.20	-2.18	OVR	OVR	3.2	15.7	306	36,700	13,100	23,600	
VMP-26-30	11/20/2012	1016	-2.04	-1.74	0.0	0.0	0.0	20.9	5.6	26.1	4.5	21.6	
VMP-26-30	12/19/2012	1130	-1.08	-1.03	0.0	0.0	0.0	20.9	5.3	26.9	0.00	26.9	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-26-38	2/1/2012	1618	-0.46	-0.39	OVR	OVR	1.0	17.3	105	133,000	95,000	38,000	
VMP-26-38	2/2/2012	1124	-0.92	-0.71	OVR	OVR	4.3	3.0	39.8	1,000,000	1,000,000	0.0	
VMP-26-38	2/7/2012	941	-0.75	-0.54	17.1	OVR	0.3	20.4	107.0	32,960	24,800	8,160	
VMP-26-38	2/10/2012	1139	-0.30	-0.59	0.0	0.0	0.1	20.9	4.5	14.2	3.2	11.0	
VMP-26-38	2/13/2012	1002	-0.81	-0.45	OVR	OVR	2.5	8.5	50.0	1,000,000	885,000	115,000	
VMP-26-38	2/15/2012	1327	-1.10	-0.76	OVR	OVR	3.6	2.1	46.6	1,000,000	1,000,000	0.0	
VMP-26-38	2/22/2012	1106	-0.50	-0.49	0.0	0.0	0.3	20.8	21.1	100	9.5	90.5	
VMP-26-38	2/29/2012	1005	-0.77	-0.80	3.4	70.0	0.1	20.9	271	4,230	174	4,056	
VMP-26-38	3/21/2012	1007	-0.91	-0.78	0.9	19.0	0.1	20.9	117	1,500	262	1,239	
VMP-26-38	4/18/2012	943	-1.27	-1.12	0.0	1.0	0.0	20.9	8.7	180	131	49	
VMP-26-38	5/16/2012	1007	-1.57	-1.63	0.0	0.0	0.0	20.9	7.0	84.7	58.1	26.6	
VMP-26-38	6/20/2012	1027	-1.23	-1.24	0.1	2.0	0.0	20.9	31.4	217	82.5	135	
VMP-26-38	7/18/2012	1041	-1.35	-1.22	0.0	0.0	0.0	20.9	10.6	51.3	26.9	24.4	
VMP-26-38	8/15/2012	1019	-1.40	-1.39	0.0	0.0	0.0	20.9	3.5	45.1	23.8	21.2	
VMP-26-38	9/19/2012	1114	-1.97	-1.89	1.6	33.0	0.0	20.9	113	5,320	3,790	1,530	
VMP-26-38	10/17/2012	1015	-1.84	-1.79	OVR	OVR	2.0	14.8	130	320,000	120,000	200,000	
VMP-26-38	11/20/2012	1020	-1.83	-1.51	0.0	0.0	0.0	20.9	9.0	72.8	27.2	45.7	
VMP-26-38	12/19/2012	1131	-0.98	-0.85	OVR	OVR	5.2	8.1	181	770,000	222,000	548,000	
VMP-27-10	2/1/2012	1555	-0.48	-0.44	OVR	OVR	4.1	7.5	190	75,500	50,000	25,500	
VMP-27-10	2/2/2012	956	-1.10	-0.91	OVR	OVR	6.3	2.5	105	303,000	178,000	125,000	
VMP-27-10	2/7/2012	859	-0.89	-0.62	0.0	0.0	0.1	20.9	16.5	79.0	8.8	70.3	
VMP-27-10	2/10/2012	1154	-0.30	-0.01	0.7	14.0	0.2	20.3	20.0	5,115	5,011	104	
VMP-27-10	2/13/2012	933	-0.75	-0.29	OVR	OVR	6.6	2.4	65.4	251,000	251,000	0.0	
VMP-27-10	2/15/2012	1241	-0.99	-0.83	OVR	OVR	6.4	2.2	61.3	328,000	209,000	119,000	
VMP-27-10	2/22/2012	1133	-0.38	-0.33	1.8	37.0	0.7	19.4	39.8	9,513	9,468	45.0	
VMP-27-10	2/29/2012	1024	-0.72	-0.63	42.3	OVR	2.4	13.5	196	35,300	21,630	13,670	
VMP-27-10	3/21/2012	950	-0.20	-0.72	0.1	3.0	0.2	20.6	20.5	691	472	219	
VMP-27-10	4/18/2012	917	-1.35	-1.00	0.6	13.0	0.4	19.7	67.0	1,106	334	772	
VMP-27-10	5/16/2012	940	-1.29	-1.28	0.0	0.0	0.2	20.7	12.7	82.0	17.7	64.3	
VMP-27-10	6/20/2012	1000	-1.01	-0.91	0.0	1.0	0.2	20.8	9.1	39.4	4.2	35.3	
VMP-27-10	7/18/2012	1012	-0.98	-0.95	0.0	0.0	0.1	20.5	18.9	83.3	15.6	67.7	
VMP-27-10	8/15/2012	1042	-0.99	-0.98	0.0	0.0	0.2	20.8	16.7	59.0	13.7	45.3	
VMP-27-10	9/19/2012	1036	-1.25	-1.40	0.2	4.0	2.5	16.9	82.2	359	85.0	274	
VMP-27-10	10/17/2012	943	-1.36	-1.37	0.0	1.0	0.5	20.4	6.5	103	49.1	54	
VMP-27-10	11/20/2012	1025	-1.32	-1.13	0.0	0.0	0.2	20.8	2.0	9.5	5.5	4.0	
VMP-27-10	12/19/2012	1103	-0.89	-0.62	0.0	0.0	1.3	19.1	3.6	61.1	33.8	27.3	
VMP-27-20	2/1/2012	1556	-0.46	-0.40	OVR	OVR	1.7	17.0	101	83,200	67,000	16,200	
VMP-27-20	2/2/2012	957	-1.16	-0.95	OVR	OVR	7.8	1.6	54.0	1,000,000	873,000	127,000	
VMP-27-20	2/7/2012	859	-0.92	-0.63	0.2	4.0	0.1	20.9	38.4	291	31.2	260	
VMP-27-20	2/10/2012	1155	-0.38	-0.50	0.0	0.0	0.1	20.7	17.0	204	146	58.1	
VMP-27-20	2/13/2012	934	-0.86	-0.37	OVR	OVR	7.3	2.0	50.3	1,000,000	1,000,000	0.0	
VMP-27-20	2/15/2012	1242	-1.13	-0.97	OVR	OVR	6.9	2.4	54.9	1,000,000	1,000,000	0.0	
VMP-27-20	2/22/2012	1134	-0.44	-0.38	0.0	0.0	0.3	20.9	30.9	231	42.8	188	
VMP-27-20	2/29/2012	1025	-0.80	-0.71	OVR	OVR	1.3	17.8	95.8	124,000	79,400	44,600	
VMP-27-20	3/21/2012	950	-0.23	-0.84	0.0	0.0	0.1	20.9	18.1	122.0	38.6	83.4	
VMP-27-20	4/18/2012	917	-1.24	-1.17	0.1	3.0	0.1	20.9	15.8	790	661	129	
VMP-27-20	5/16/2012	941	-1.53	-1.54	0.0	0.0	0.0	20.9	6.3	11.4	34.8	-23.4	
VMP-27-20	6/20/2012	1001	-1.20	-1.13	0.0	0.0	0.0	20.9	9.5	45.8	9.6	36.2	
VMP-27-20	7/18/2012	1013	-1.26	-1.24	0.0	0.0	0.3	20.6	10.1	112	44.2	68	
VMP-27-20	8/15/2012	1043	-1.28	-1.26	0.0	0.0	0.0	20.9	3.9	22.1	8.2	13.9	
VMP-27-20	9/19/2012	1038	-1.94	-1.83	0.0	0.0	0.0	20.9	4.5	24.6	6.2	18.4	
VMP-27-20	10/17/2012	944	-1.73	-1.68	0.0	0.0	0.1	20.9	9.6	81.8	21.6	60.2	
VMP-27-20	11/20/2012	1029	-1.65	-1.42	0.0	0.0	0.0	20.9	20.0	88.4	14.0	74.4	
VMP-27-20	12/19/2012	1104	-1.13	-0.80	0.0	0.0	0.0	20.9	7.0	40.3	0.0	40.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-27-30	2/1/2012	1557	-0.46	-0.40	0.0	0.0	0.1	20.9	17.2	137	0.0	137	
VMP-27-30	2/2/2012	958	-1.16	-0.95	OVR	OVR	7.2	2.1	53.1	1,000,000	1,000,000	0.0	
VMP-27-30	2/7/2012	900	-0.94	-0.63	OVR	OVR	1.6	16.8	60.0	132,000	76,060	55,940	
VMP-27-30	2/10/2012	1156	-0.39	-0.51	OVR	OVR	0.3	19.7	355	56,000	16,290	39,710	
VMP-27-30	2/13/2012	935	-0.87	-0.38	OVR	OVR	7.1	1.8	45.4	1,000,000	1,000,000	0.0	
VMP-27-30	2/15/2012	1243	-1.16	-0.98	OVR	OVR	4.6	8.4	56.8	1,000,000	532,000	468,000	
VMP-27-30	2/22/2012	1135	-0.45	-0.40	0.2	4.0	0.2	20.9	54.4	397	73.0	324	
VMP-27-30	2/29/2012	1026	-0.79	-0.73	OVR	OVR	1.4	17.0	98.5	146,000	117,000	29,000	
VMP-27-30	3/21/2012	950	-0.23	-0.83	0.0	0.0	0.1	20.2	18.6	119	37.7	81.3	
VMP-27-30	4/18/2012	917	-1.22	-1.16	0.0	0.0	0.0	20.9	2.2	39.50	18.50	21.00	
VMP-27-30	5/16/2012	942	-1.51	-1.55	0.0	0.0	0.0	20.9	4.6	31.75	10.50	21.25	
VMP-27-30	6/20/2012	1002	-1.24	-1.13	0.0	0.0	0.0	20.9	6.0	32.00	8.82	23.18	
VMP-27-30	7/18/2012	1012	-1.26	-1.24	49.7	OVR	0.8	18.2	77.3	84,100	28,300	55,800	
VMP-27-30	8/15/2012	1044	-1.28	-1.26	0.0	0.0	0.0	20.9	5.1	31.77	9.92	21.85	
VMP-27-30	9/19/2012	1040	-1.96	-1.82	0.0	0.0	0.0	20.9	5.3	22.15	6.11	16.04	
VMP-27-30	10/17/2012	945	-1.75	-1.69	0.0	0.0	0.0	20.9	10.0	86.10	10.60	75.50	
VMP-27-30	11/20/2012	1033	-1.63	-1.42	0.0	0.0	0.0	20.9	4.6	22.43	4.83	17.6	
VMP-27-30	12/19/2012	1105	-1.11	-0.80	0.0	0.0	0.0	20.9	10.0	65.22	2.46	62.8	
VMP-27-38	2/1/2012	1558	-0.30	-0.28	80.0	OVR	0.6	19.3	95.3	105,000	73,200	31,800	
VMP-27-38	2/2/2012	959	-1.11	-0.89	OVR	OVR	4.9	1.4	37.3	1,000,000	1,000,000	0.0	
VMP-27-38	2/7/2012	900	-0.85	-0.55	OVR	OVR	2.0	13.0	47.6	611,000	567,000	44,000	
VMP-27-38	2/10/2012	1157	-0.27	-0.38	0.0	0.0	0.1	20.9	6.5	27.6	7.7	19.9	
VMP-27-38	2/13/2012	936	-0.49	-0.24	0.4	8.0	0.1	20.9	87.3	823	242	581	
VMP-27-38	2/15/2012	1244	-1.40	-0.91	OVR	OVR	4.3	2.1	38.5	1,000,000	1,000,000	0.0	
VMP-27-38	2/22/2012	1136	-0.31	-0.25	OVR	OVR	3.1	8.3	53.7	1,000,000	875,000	125,000	
VMP-27-38	2/29/2012	1027	-0.79	-0.70	38.9	OVR	0.4	19.7	63.8	53,550	39,200	14,350	
VMP-27-38	3/21/2012	951	-0.24	-0.86	0.0	0.0	0.1	20.9	5.0	33.9	5.2	28.7	
VMP-27-38	4/18/2012	917	-1.23	-1.14	0.0	0.0	0.0	20.9	0.5	4.8	0.0	4.8	
VMP-27-38	5/16/2012	943	-1.54	-1.45	0.0	0.0	0.0	20.9	0.5	1.3	0.0	1.3	
VMP-27-38	6/20/2012	1003	-1.24	-1.13	0.0	0.0	0.0	20.9	1.0	6.0	3.1	2.9	
VMP-27-38	7/18/2012	1016	-1.23	-0.62	0.0	0.0	0.0	20.9	0.8	28.0	10.7	17.3	
VMP-27-38	8/15/2012	1045	-1.30	-1.28	0.0	0.0	0.0	20.9	0.9	7.9	6.1	1.8	
VMP-27-38	9/19/2012	1042	-1.95	-1.82	0.0	0.0	0.0	20.9	3.8	56.5	39.0	17.5	
VMP-27-38	10/17/2012	946	-1.71	-1.61	0.0	0.0	0.0	20.9	11.5	158	60.5	97	
VMP-27-38	11/20/2012	1037	-1.64	-1.40	0.0	0.0	0.0	20.9	1.8	20.4	10.6	9.8	
VMP-27-38	12/19/2012	1106	-1.11	0.77	0.0	0.0	0.0	20.9	50.5	320	13.1	307	
VMP-28-10	2/1/2012	1632	-1.20	-1.17	OVR	OVR	8.4	4.7	216	150,000	85,700	64,300	
VMP-28-10	2/2/2012	1035	-1.44	-1.23	OVR	OVR	9.6	0.9	196	239,000	132,000	107,000	
VMP-28-10	2/7/2012	1010	-1.01	-1.15	0.1	3.0	0.2	20.8	41.5	287	72.6	214	
VMP-28-10	2/10/2012	1108	-0.04	-0.79	0.5	11.0	0.2	20.6	105	1,566	862	704	
VMP-28-10	2/13/2012	1024	0.75	-0.67	OVR	OVR	8.1	1.5	253	128,000	60,200	67,800	
VMP-28-10	2/15/2012	1349	-0.91	-0.75	OVR	OVR	6.1	5.7	266	87,200	53,820	33,380	
VMP-28-10	2/22/2012	1119	-0.58	- 0.62	1.3	27.0	0.6	20.0	128	3,998	2,430	1,568	
VMP-28-10	2/29/2012	1050	-0.99	-0.76	7.3	OVR	0.6	19.5	434	9,343	3,540	5,803	
VMP-28-10	3/21/2012	1029	-0.60	-0.52	45.5	OVR	1.9	15.1	395	35,300	9,510	25,790	
VMP-28-10	4/18/2012	1009	-1.08	-1.01	0.8	17.0	0.3	20.2	141	1,781	750	1,031	
VMP-28-10	5/16/2012	1011	-1.32	-1.33	0.2	5.0	0.2	20.5	69.3	6,200	231	5,969	
VMP-28-10	6/20/2012	1056	-1.09	-1.35	10.3	OVR	1.4	18.1	397	7,000	825	6,175	
VMP-28-10	7/18/2012	1053	-0.88	-0.78	0.6	12.0	0.2	20.4	150	1,000	32.50	968	
VMP-28-10	8/15/2012	1106	-0.93	-0.92	2.2	46.0	0.6	20.0	354	7,040	1,130	5,910	
VMP-28-10	9/19/2012	1010	-1.72	-1.69	OVR	OVR	6.1	10.7	776	14,200	1,080	13,120	
VMP-28-10	10/17/2012	1030	-2.11	-2.07	27.3	OVR	3.8	15.0	882	18,700	350	18,350	
VMP-28-10	11/20/2012	1055	-1.60	-1.59	0.3	6.0	0.3	20.7	211	600	63.80	536	
VMP-28-10	12/19/2012	1150	-0.82	-0.64	17.5	OVR	5.0	14.9	868	4,600	480	4,120	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-28-20	2/1/2012	1633	-0.60	-0.52	OVR	OVR	7.7	1.5	145	1,000,000	195,000	805,000	
VMP-28-20	2/2/2012	1040	-1.09	-0.83	OVR	OVR	7.9	1.0	133	1,000,000	342,000	658,000	
VMP-28-20	2/7/2012	1010	-0.67	-0.73	0.3	6.0	0.1	20.9	55.2	475	62.3	413	
VMP-28-20	2/10/2012	1109	-0.06	-0.69	0.9	19.0	0.1	20.7	164	1,425	102	1,323	
VMP-28-20	2/13/2012	1025	-0.68	-0.53	OVR	OVR	7.1	3.5	148	1,000,000	213,000	787,000	
VMP-28-20	2/15/2012	1350	-0.81	-0.84	OVR	OVR	4.2	12.7	377	52,900	25,780	27,120	
VMP-28-20	2/22/2012	1120	-0.62	- 0.59	0.1	2.0	0.2	20.9	39.7	248	27.2	221	
VMP-28-20	2/29/2012	1051	-0.90	-0.60	4.8	97.0	0.1	20.9	501	5,056	130	4,926	
VMP-28-20	3/21/2012	1030	-0.81	-0.70	0.0	0.0	0.1	20.9	49.4	243	26.2	217	
VMP-28-20	4/18/2012	1009	-1.25	-1.13	0.2	5.0	0.1	20.9	60.0	490	150	340	
VMP-28-20	5/16/2012	1011	-1.62	-1.61	0.0	0.0	0.0	20.9	15.1	61.8	1.7	60.1	
VMP-28-20	6/20/2012	1100	-1.31	-1.35	7.2	OVR	0.5	19.9	354	6,020	864	5,156	
VMP-28-20	7/18/2012	1054	-1.35	-1.20	0.0	0.0	0.0	20.9	48.2	115	0.0	115	
VMP-28-20	8/15/2012	1107	-1.40	-1.35	0.1	2.0	0.0	20.9	39.5	177	38.1	139	
VMP-28-20	9/19/2012	1011	-2.28	-2.22	40.0	OVR	2.9	16.5	742	10,700	1,100	9,600	
VMP-28-20	10/17/2012	1031	-2.15	-2.08	5.5	OVR	0.6	20.2	295	6,200	2,200	4,000	
VMP-28-20	11/20/2012	1059	-1.80	-1.74	0.2	4.0	0.0	20.9	118	422	28.9	393	
VMP-28-20	12/19/2012	1151	-1.09	-0.80	79.4	OVR	11.4	5.4	850	16,200	4,300	11,900	
VMP-28-30	2/1/2012	1634	-0.43	-0.28	OVR	OVR	7.9	1.6	151	1,000,000	170,000	830,000	
VMP-28-30	2/2/2012	1045	-0.94	-0.68	OVR	OVR	6.4	6.1	143	1,000,000	170,000	830,000	
VMP-28-30	2/7/2012	1011	-0.53	-0.56	0.0	0.0	0.1	20.9	17.4	78.0	6.5	71.6	
VMP-28-30	2/10/2012	1110	-0.05	-0.63	0.0	0.0	0.1	20.7	16.5	56.6	3.9	52.7	
VMP-28-30	2/13/2012	1026	-0.62	-0.46	OVR	OVR	6.4	5.5	148	1,000,000	196,000	804,000	
VMP-28-30	2/15/2012	1351	-1.05	-0.84	0.6	13.0	0.2	20.9	127	1,035	26.6	1,008	
VMP-28-30	2/22/2012	1121	-0.60	- 0.55	0.0	0.0	0.2	20.9	26.7	132	24.1	108	
VMP-28-30	2/29/2012	1052	0.83	-0.52	38.5	OVR	0.6	19.6	281	60,700	24,280	36,420	
VMP-28-30	3/21/2012	1030	-0.84	-0.74	0.0	0.0	0.1	20.9	35.7	170	30.8	139	
VMP-28-30	4/18/2012	1009	-1.27	-1.16	0.0	0.0	0.0	20.9	20.0	115	42.0	73.0	
VMP-28-30	5/16/2012	1011	-1.69	-1.69	0.0	0.0	0.0	20.9	13.1	60.0	NM	NM	Sample depelted before methane screened.
VMP-28-30	6/20/2012	1104	-1.34	-1.36	0.2	4.0	0.0	20.8	36.4	764	465	299	
VMP-28-30	7/18/2012	1055	-1.46	-1.34	0.0	0.0	0.0	20.9	27.7	92.9	27.6	65.3	
VMP-28-30	8/15/2012	1107	-1.50	-1.45	0.0	0.0	0.0	20.9	26.0	125	41.8	83.2	
VMP-28-30	9/19/2012	1012	-1.79	-2.33	0.0	0.0	0.0	20.9	21.0	96.1	26.4	69.7	
VMP-28-30	10/17/2012	1032	-2.07	-2.00	0.1	2.0	0.0	20.9	25.5	124	21.6	102	
VMP-28-30	11/20/2012	1103	-1.78	-1.72	0.0	0.0	0.0	20.9	5.9	27.3	6.3	21.0	
VMP-28-30	12/19/2012	1153	-1.12	-1.13	OVR	OVR	9.1	6.2	325	150,000	70,300	79,700	
VMP-28-40	2/1/2012	1635	-0.42	-0.27	OVR	OVR	7.1	4.1	155	1,000,000	240,000	760,000	
VMP-28-40	2/2/2012	1049	-0.92	-0.66	OVR	OVR	8.0	1.6	144	846,000	223,000	623,000	
VMP-28-40	2/7/2012	1011	-0.49	-0.57	0.0	0.0	0.1	20.9	29.2	90.8	7.0	83.8	
VMP-28-40	2/10/2012	1111	-0.12	-0.62	0.0	0.0	0.1	20.7	25.0	62.9	3.1	59.8	
VMP-28-40	2/13/2012	1027	-0.78	-0.44	OVR	OVR	1.8	14.5	135	76,800	49,900	26,900	
VMP-28-40	2/15/2012	1352	-1.03	-0.84	1.7	35.0	0.3	20.2	44.3	9,789	9,090	699	
VMP-28-40	2/22/2012	1122	-0.58	- 0.53	0.0	0.0	0.2	20.9	0.8	15.4	3.0	12.5	
VMP-28-40	2/29/2012	1053	-0.09	-0.52	3.2	64.0	0.1	20.9	389	5,162	1,170	3,992	
VMP-28-40	3/21/2012	1030	-0.83	-0.72	0.0	0.0	0.1	20.9	39.3	125.0	29.0	96.1	
VMP-28-40	4/18/2012	1010	-1.25	-1.13	0.0	0.0	0.0	20.9	11.2	45.0	17.5	27.5	
VMP-28-40	5/16/2012	1013	-1.68	-1.69	0.0	0.0	0.0	20.9	10.0	27.0	7.6	19.4	
VMP-28-40	6/20/2012	1108	-1.33	-1.36	0.0	0.0	0.0	20.9	10.0	41.0	15.3	25.7	
VMP-28-40	7/18/2012	1056	-1.44	-1.34	3.4	70.0	0.2	20.4	101	8,950	6,660	2,290	
VMP-28-40	8/15/2012	1108	-1.48	-1.44	0.0	0.0	0.0	20.9	6.6	39.1	26.1	13.0	
VMP-28-40	9/19/2012	1013	-2.40	-2.31	0.1	2.0	0.0	20.7	32.3	769	583	186	
VMP-28-40	10/17/2012	1033	-1.88	-2.00	1.4	29.0	0.2	20.8	122	3,000	1,620	1,380	
VMP-28-40	11/20/2012	1107	-1.70	-1.64	0.0	0.0	0.0	20.9	0.5	6.7	3.7	3.0	
VMP-28-40	12/19/2012	1154	-1.19	-0.79	0.0	0.0	0.0	20.9	10.5	83.0	17.2	65.8	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-31-5	2/1/2012	1552	-0.25	-0.30	0.0	0.0	0.5	20.5	0.1	0.6	0.0	0.6	
VMP-31-5	2/2/2012	948	-0.45	-0.35	0.0	0.0	0.3	20.6	0.1	0.5	0.0	0.5	
VMP-31-5	2/7/2012	1401	-0.25	-0.27	0.0	0.0	0.4	20.6	0.2	0.0	0.0	0.0	
VMP-31-5	2/10/2012	906	-0.10	-0.38	0.0	0.0	0.2	20.8	1.0	7.5	6.3	1.2	
VMP-31-5	2/13/2012	824	-0.37	-0.29	0.0	0.0	0.3	20.7	0.1	0.0	0.0	0.0	
VMP-31-5	2/15/2012	1626	0.00	-0.47	0.0	0.0	0.3	20.7	0.6	0.0	0.0	0.0	
VMP-31-5	2/16/2012	1607	-1.04	-0.66	0.0	0.0	0.3	20.9	9.3	36.8	3.4	33.4	
VMP-31-5	2/17/2012	912	-0.64	-0.41	0.0	0.0	0.4	20.8	1.1	6.3	5.0	1.3	
VMP-31-5	2/20/2012	935	-0.15	-0.41	0.0	0.0	0.3	20.8	0.8	0.5	0.0	0.5	
VMP-31-5	2/21/2012	830	-0.39	-0.53	0.0	0.0	0.2	20.9	0.5	4.0	0.0	4.0	
VMP-31-5	2/22/2012	1001	-0.25	- 0.21	0.0	0.0	0.4	20.9	0.5	3.5	0.0	3.5	
VMP-31-5	2/29/2012	1019	-0.33	- 0.19	0.0	0.0	0.5	20.4	0.8	6.0	3.1	2.9	
VMP-31-5	3/21/2012	1447	-0.11	-0.11	0.0	0.0	0.5	20.0	0.2	0.0	0.0	0.0	
VMP-31-5	4/18/2012	1446	-0.16	-0.15	0.0	0.0	0.1	20.4	2.0	5.3	0.0	5.3	
VMP-31-5	5/16/2012	1046	-0.40	-0.44	0.0	0.0	1.5	19.0	0.3	0.2	0.0	0.2	
VMP-31-5	6/20/2012	1734	-0.15	-0.16	0.0	0.0	1.6	19.0	0.1	1.5	0.0	1.5	
VMP-31-5	7/18/2012	1508	-0.22	-0.20	0.0	0.0	0.6	19.9	0.9	5.7	4.3	1.4	
VMP-31-5	8/15/2012	1503	-0.21	-0.74	0.0	0.0	0.8	20.0	1.2	4.4	0.0	4.4	
VMP-31-5	9/19/2012	1323	-0.43	-0.59	0.0	0.0	0.7	20.1	0.9	2.4	0.0	2.4	
VMP-31-5	10/17/2012	905	-0.40	0.91	0.0	0.0	0.9	19.5	0.2	1.0	0.0	1.0	
VMP-31-5	11/20/2012	1348	-0.28	-0.22	0.0	0.0	0.4	20.6	0.3	2.3	0.0	2.3	
VMP-31-5	12/19/2012	1140	-0.86	-0.05	0.0	0.0	0.2	20.7	0.2	1.7	0.0	1.7	
VMP-31-10	2/1/2012	1559	-0.40	-0.50	0.0	0.0	0.5	20.3	0.2	0.5	0.0	0.5	
VMP-31-10	2/2/2012	954	-0.73	-0.58	0.0	0.0	0.4	20.6	0.1	0.0	0.0	0.0	
VMP-31-10	2/7/2012	1405	-0.40	-0.44	0.0	0.0	0.5	20.5	0.2	0.0	0.0	0.0	
VMP-31-10	2/10/2012	907	-0.15	-0.62	0.0	0.0	0.3	20.8	1.0	6.8	6.1	0.7	
VMP-31-10	2/13/2012	825	-0.58	-0.55	0.0	0.0	0.4	20.6	0.2	0.0	0.0	0.0	
VMP-31-10	2/15/2012	1628	-0.59	-0.88	0.0	0.0	0.3	20.6	0.5	3.8	0.0	3.8	
VMP-31-10	2/16/2012	1608	-0.40	-0.77	0.0	0.0	0.4	20.9	0.8	4.9	0.0	4.9	
VMP-31-10	2/17/2012	913	-0.83	-0.63	0.0	0.0	0.4	20.8	0.7	3.1	0.0	3.1	
VMP-31-10	2/20/2012	936	-0.14	-0.67	0.0	0.0	0.3	20.8	0.5	3.8	0.0	3.8	
VMP-31-10	2/21/2012	831	-0.90	-0.88	0.0	0.0	0.3	20.9	0.5	3.8	0.0	3.8	
VMP-31-10	2/22/2012	1001	-0.42	- 0.35	0.0	0.0	0.5	20.7	0.4	2.3	0.0	2.3	
VMP-31-10	2/29/2012	1020	-0.35	- 0.37	0.0	0.0	0.5	20.3	0.5	2.5	0.0	2.5	
VMP-31-10	3/21/2012	1448	-0.22	-0.17	0.0	0.0	0.6	20.0	0.3	0.0	0.0	0.0	
VMP-31-10	4/18/2012	1447	-0.29	-0.26	0.0	0.0	0.1	20.9	0.8	5.0	0.0	5.0	
VMP-31-10	5/16/2012	1052	-0.69	-0.66	0.0	0.0	1.9	18.7	0.4	0.0	0.0	0.0	
VMP-31-10	6/20/2012	1739	-0.27	-0.27	0.0	0.0	1.5	19.2	0.6	1.6	0.0	1.6	
VMP-31-10	7/18/2012	1509	-0.37	-0.32	0.0	0.0	0.7	19.9	1.0	6.6	3.3	3.3	
VMP-31-10	8/15/2012	1508	-0.38	-0.46	0.0	0.0	1.0	19.5	1.0	4.5	0.0	4.5	
VMP-31-10	9/19/2012	1324	-0.59	-0.68	0.0	0.0	0.9	19.9	0.9	3.4	0.0	3.4	
VMP-31-10	10/17/2012	905	-0.65	-0.68	0.0	0.0	1.0	19.5	0.3	0.9	0.0	0.9	
VMP-31-10	11/20/2012	1352	-0.41	-0.44	0.0	0.0	0.6	20.0	0.5	1.5	0.0	1.5	
VMP-31-10	12/19/2012	1145	-0.47	-0.08	0.0	0.0	0.2	20.6	0.2	0.7	0.0	0.7	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-31-20	2/1/2012	1605	-0.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/2/2012	1000	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/7/2012	1358	-0.67	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/10/2012	908	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/13/2012	826	-0.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/15/2012	1627	0.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/16/2012	1609	-3.84	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/17/2012	914	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/20/2012	937	-1.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/21/2012	832	1.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/22/2012	1001	-0.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	2/29/2012	1021	0.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Submerged
VMP-31-20	4/18/2012	1445	0.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-31-20	5/16/2012	1056	-0.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-31-20	6/20/2012	1740	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-31-20	7/18/2012	1510	-0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	Screen Sumberged.
VMP-31-20	8/15/2012	1511	-0.74	-0.88	0.8	17.0	6.1	14.3	252	1,000	91.6	908	
VMP-31-20	9/19/2012	1325	-2.20	-1.21	2.5	50.0	6.8	11.0	343	1,780	250	1,530	
VMP-31-20	10/17/2012	906	-1.03	-0.75	5.8	OVR	10.1	6.2	441	2,300	341	1,959	
VMP-31-20	11/20/2012	1356	-0.75	-0.79	2.3	46.0	8.6	8.1	383	1,960	230	1,730	
VMP-31-20	12/19/2012	1150	-0.77	-0.23	0.6	12.0	7.2	12.1	210	1,350	180	1,170	
VMP-31-30	2/1/2012	1605	-1.39	-0.72	OVR	OVR	6.0	0.9	81.1	1,000,000	742,000	258,000	
VMP-31-30	2/2/2012	1004	-1.30	-0.97	OVR	OVR	5.8	1.8	75.0	1,000,000	860,000	140,000	
VMP-31-30	2/7/2012	1410	-0.67	-0.72	OVR	OVR	6.3	2.7	79.2	1,000,000	1,000,000	0.0	
VMP-31-30	2/10/2012	909	-0.26	-1.10	OVR	OVR	5.9	5.0	81.4	897,000	285,000	612,000	
VMP-31-30	2/13/2012	827	-1.06	-1.00	OVR	OVR	8.2	1.8	96.0	428,000	169,000	259,000	
VMP-31-30	2/15/2012	1629	-0.97	-1.02	OVR	OVR	8.8	2.3	101	1,000,000	226,000	774,000	
VMP-31-30	2/16/2012	1610	-1.37	-1.29	OVR	OVR	8.5	2.6	121	371,000	161,000	210,000	
VMP-31-30	2/17/2012	915	-1.19	1.02	OVR	OVR	9.8	2.1	125	245,000	93,200	151,800	
VMP-31-30	2/20/2012	938	-0.26	-1.18	OVR	OVR	9.6	1.6	148	167,000	85,300	81,700	
VMP-31-30	2/21/2012	833	-1.57	-1.60	OVR	OVR	9.4	1.4	158	310,000	136,000	174,000	
VMP-31-30	2/22/2012	1002	-0.71	- 0.61	OVR	OVR	9.6	1.9	130	151,000	82,750	68,250	
VMP-31-30	2/29/2012	1022	-0.53	- 0.67	OVR	OVR	10.4	1.3	189	67,900	33,590	34,310	
VMP-31-30	3/21/2012	1448	-0.33	-0.30	OVR	OVR	10.6	0.6	199	93,400	46,800	46,600	
VMP-31-30	4/18/2012	1449	-0.59	-0.52	7.1	OVR	10.3	1.8	114	11,300	7,800	3,500	
VMP-31-30	5/16/2012	1056	-1.32	-1.28	0.8	17.0	10.6	4.1	40.0	2,990	2,900	90	
VMP-31-30	6/20/2012	1744	-0.58	-0.56	0.3	6.0	4.5	15.0	28.3	645	42.0	603	
VMP-31-30	7/18/2012	1511	-0.84	-0.77	0.1	3.0	8.5	7.7	19.0	565	563	2.0	
VMP-31-30	8/15/2012	1515	-0.83	-0.98	0.0	0.0	7.9	10.9	12.3	215	164	51.0	
VMP-31-30	9/19/2012	1326	-1.40	-1.39	0.0	0.0	8.8	10.0	10.3	86.4	56.4	30.0	
VMP-31-30	10/17/2012	906	-1.24	-3.58	0.2	5.0	3.4	17.6	25.7	286	28.80	257	
VMP-31-30	11/20/2012	1400	-0.90	-0.96	0.1	3.0	8.2	12.2	54.0	137	12.92	124	
VMP-31-30	12/19/2012	1155	-0.85	-0.51	2.3	26.0	11.0	8.0	86.0	5,600	4,250	1,350	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-32-5	2/1/2012	1513	-0.27	-0.05	0.0	0.0	0.2	20.8	0.3	3.1	0.0	3.1	
VMP-32-5	2/2/2012	918	-0.06	-0.04	0.0	0.0	0.1	20.9	0.3	2.3	0.0	2.3	
VMP-32-5	2/7/2012	842	-0.07	-0.05	0.0	0.0	0.2	20.8	0.1	1.2	0.0	1.2	
VMP-32-5	2/15/2012	1029	-0.05	-0.04	0.0	0.0	0.1	20.9	0.3	0.0	0.0	0.0	
VMP-32-5	2/22/2012	1102	-0.04	- 0.01	0.0	0.0	0.3	20.9	1.0	8.2	3.7	4.5	
VMP-32-5	2/29/2012	1058	0.00	0.00	0.0	0.0	0.2	20.8	0.6	3.3	0.0	3.3	
VMP-32-5	3/21/2012	1322	0.00	0.00	0.0	0.0	0.2	20.6	0.4	0.0	0.0	0.0	
VMP-32-5	4/18/2012	1139	-0.04	0.00	0.0	0.0	0.1	20.7	0.8	2.1	0.0	2.1	
VMP-32-5	5/16/2012	1102	-0.04	-0.04	0.0	0.0	0.3	20.6	0.3	0.2	0.0	0.2	
VMP-32-5	6/20/2012	1508	0.00	-0.01	0.0	0.0	2.2	18.7	0.4	21.3	9.6	11.7	
VMP-32-5	7/18/2012	1428	-0.04	-0.03	0.0	0.0	0.9	19.7	1.2	9.0	4.7	4.3	
VMP-32-5	8/15/2012	1555	-0.03	-0.03	0.0	0.0	1.8	18.9	0.7	4.7	0.0	4.7	
VMP-32-5	9/19/2012	1407	-0.04	-0.04	0.0	0.0	1.1	19.8	0.6	3.6	0.0	3.6	
VMP-32-5	10/17/2012	920	-0.03	-0.03	0.0	0.0	1.0	18.5	0.3	0.5	0.0	0.5	
VMP-32-5	11/20/2012	1328	-0.03	-0.02	0.0	0.0	0.3	20.3	0.3	1.1	0.0	1.1	
VMP-32-5	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.
VMP-32-10	2/1/2012	1519	-0.11	-0.10	0.0	0.0	2.8	18.2	0.3	0.4	0.0	0.4	
VMP-32-10	2/2/2012	923	-0.10	-0.25	0.0	0.0	2.4	18.9	0.2	0.0	0.0	0.0	
VMP-32-10	2/7/2012	843	-0.16	-0.12	0.0	0.0	2.5	18.8	0.2	0.0	0.0	0.0	
VMP-32-10	2/15/2012	1030	-0.12	-0.10	0.0	0.0	2.2	18.8	0.3	0.0	0.0	0.0	
VMP-32-10	2/22/2012	1102	-0.07	- 0.62	0.0	0.0	2.3	19.1	1.3	7.7	0.0	7.7	
VMP-32-10	2/29/2012	1059	-0.08	0.00	0.0	0.0	2.1	18.8	0.6	2.6	0.0	2.6	
VMP-32-10	3/21/2012	1323	-0.04	-0.03	0.0	0.0	2.0	18.5	0.2	0.0	0.0	0.0	
VMP-32-10	4/18/2012	1140	-0.09	-0.06	0.0	0.0	2.2	18.0	0.5	2.2	0.0	2.2	
VMP-32-10	5/16/2012	1109	-0.10	-0.07	0.0	0.0	2.9	17.2	0.5	0.0	0.0	0.0	
VMP-32-10	6/20/2012	1509	-0.01	-0.02	0.0	0.0	3.6	16.2	1.0	4.6	0.0	4.6	
VMP-32-10	7/18/2012	1429	-0.07	-0.05	0.0	0.0	3.2	17.1	0.6	2.7	0.0	2.7	
VMP-32-10	8/15/2012	1550	-0.08	-0.06	0.0	0.0	3.5	17.5	0.9	4.2	0.0	4.2	
VMP-32-10	9/19/2012	1408	-0.07	-0.10	0.0	0.0	3.4	17.2	1.1	4.2	0.0	4.2	
VMP-32-10	10/17/2012	921	-0.05	0.00	0.0	0.0	3.4	17.4	0.4	0.4	0.0	0.4	
VMP-32-10	11/20/2012	1333	-0.05	-0.04	0.0	0.0	2.4	18.4	0.3	0.5	0.0	0.5	
VMP-32-10	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.
VMP-32-20	2/1/2012	1523	-0.03	-0.57	0.8	16.0	4.4	16.0	55.5	1,280	921	359	
VMP-32-20	2/2/2012	929	-0.75	-0.61	0.0	0.0	3.5	17.3	0.8	5.4	2.0	3.4	
VMP-32-20	2/7/2012	844	-0.70	-0.53	0.0	0.0	3.9	17.3	0.3	2.3	0.0	2.3	
VMP-32-20	2/15/2012	1031	-0.83	-0.64	0.0	0.0	3.7	17.2	0.5	11.3	8.5	2.8	
VMP-32-20	2/22/2012	1103	-0.28	- 0.20	0.1	2.0	3.9	16.8	16.8	522	413	109	
VMP-32-20	2/29/2012	1100	-0.48	- 0.26	0.5	10.0	4.2	16.1	108	788	13	775	
VMP-32-20	3/21/2012	840	-0.32	-0.11	0.0	0.0	3.4	16.5	15.6	603	476	128	
VMP-32-20	4/18/2012	1141	-0.44	-0.24	0.0	0.0	3.4	16.4	0.5	2.8	0.0	2.8	
VMP-32-20	5/16/2012	1113	-0.74	-0.68	0.0	0.0	4.2	15.4	0.4	0.0	0.0	0.0	
VMP-32-20	6/20/2012	1510	-0.15	-0.18	0.0	0.0	4.2	15.2	1.5	23.9	21.2	2.7	
VMP-32-20	7/18/2012	1430	-0.35	-0.38	0.0	0.0	4.6	15.1	0.8	18.0	3.9	14.1	
VMP-32-20	8/15/2012	1559	-0.40	-0.42	0.0	0.0	5.0	15.9	1.0	3.5	0.0	3.5	
VMP-32-20	9/19/2012	1409	-0.56	-0.64	0.0	0.0	5.1	15.2	1.1	3.0	0.0	3.0	
VMP-32-20	10/17/2012	922	-0.54	-0.44	0.0	0.0	4.8	16.2	0.4	0.6	0.0	0.6	
VMP-32-20	11/20/2012	1338	-0.41	-0.42	0.0	0.0	4.2	17.0	0.4	0.4	0.0	0.4	
VMP-32-20	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-32-30	2/1/2012	1526	-0.40	-0.38	OVR	OVR	10.8	0.8	528	55,500	17,600	37,900	
VMP-32-30	2/2/2012	934	-0.82	-0.63	OVR	OVR	10.8	1.1	493	43,800	13,500	30,300	
VMP-32-30	2/7/2012	845	-0.71	-0.56	OVR	OVR	10.9	1.2	436	81,000	19,200	61,800	
VMP-32-30	2/15/2012	1032	-0.74	-0.58	OVR	OVR	10.0	1.9	450	32,600	10,700	21,900	
VMP-32-30	2/22/2012	1103	-0.30	- 0.22	OVR	OVR	10.3	1.6	489	36,700	10,440	26,260	
VMP-32-30	2/29/2012	1101	-0.53	- 0.36	OVR	OVR	10.2	1.4	526	29,600	7,770	21,830	
VMP-32-30	3/21/2012	1324	-0.26	-0.05	OVR	OVR	10.6	0.5	499	37,400	11,700	25,700	
VMP-32-30	4/18/2012	1142	-0.47	-0.26	84.5	OVR	9.3	1.8	444	26,000	8,150	17,850	
VMP-32-30	5/16/2012	1117	-0.84	-0.76	67.9	OVR	9.4	2.2	480	20,500	7,100	13,400	
VMP-32-30	6/20/2012	1511	-0.16	-0.22	13.0	OVR	10.7	0.5	265	5,950	2,640	3,310	
VMP-32-30	7/18/2012	1431	-0.39	-0.42	21.8	OVR	8.9	3.8	388	9,320	3,150	6,170	
VMP-32-30	8/15/2012	1604	-0.45	-0.48	9.5	OVR	11.3	1.5	325	4,700	2,400	2,300	
VMP-32-30	9/19/2012	1410	-0.64	-0.75	7.1	OVR	11.6	1.7	357	3,500	2,300	1,200	
VMP-32-30	10/17/2012	923	-0.62	-0.54	0.1	3.0	9.8	6.5	17.1	1,400	540	860	
VMP-32-30	11/20/2012	1343	-0.92	-0.51	0.1	2.0	12.9	2.6	83.0	480	51.5	429	
VMP-32-30	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.
VMP-33-10	2/15/2012	1555	-0.12	-0.50	0.0	0.0	9.0	3.4	6.5	136	124	12.2	
VMP-33-10	2/16/2012	1323	-0.10	-0.14	0.0	0.0	3.6	15.8	2.7	5.4	0.0	5.4	
VMP-33-10	2/17/2012	1019	-0.26	-0.08	0.0	0.0	3.8	15.7	1.4	2.7	0.0	2.7	
VMP-33-10	2/22/2012	840	0.00	-0.14	0.0	0.0	5.1	10.0	0.7	11.8	0.0	11.8	
VMP-33-10	2/29/2012	842	-0.08	-0.10	0.0	0.0	3.9	15.3	0.5	2.5	0.0	2.5	
VMP-33-10	3/21/2012	839	-0.09	-0.10	0.0	0.0	4.2	17.0	0.1	1.3	0.0	1.3	
VMP-33-10	4/18/2012	1050	-0.05	0.00	0.0	0.0	3.6	17.2	0.4	4.4	0.0	4.4	
VMP-33-10	5/16/2012	1026	-0.13	-0.10	0.0	0.0	2.9	18.1	0.5	0.0	0.0	0.0	
VMP-33-10	6/20/2012	1053	-0.08	-0.08	0.0	0.0	1.9	19.2	0.4	0.0	0.0	0.0	
VMP-33-10	7/18/2012	1112	-0.06	-0.03	0.0	0.0	2.2	18.5	0.9	1.6	0.0	1.6	
VMP-33-10	8/15/2012	927	-0.05	-0.05	0.0	0.0	1.8	19.3	1.0	4.5	0.0	4.5	
VMP-33-10	9/19/2012	1252	0.00	0.00	0.0	0.0	0.7	20.2	0.9	3.5	0.0	3.5	
VMP-33-10	10/17/2012	831	-0.09	-0.08	0.0	0.0	0.5	20.4	0.9	1.3	0.0	1.3	
VMP-33-10	11/20/2012	914	-0.10	-0.07	0.0	0.0	0.3	20.6	0.5	1.6	0.0	1.6	
VMP-33-10	12/19/2012	1001	-0.05	-0.08	0.0	0.0	0.2	20.6	0.1	0.2	0.0	0.2	
VMP-33-20	2/15/2012	1601	-0.23	-0.83	OVR	OVR	7.1	3.3	96.5	85,280	74,660	10,620	
VMP-33-20	2/16/2012	1324	-0.38	-0.44	OVR	OVR	7.1	1.4	114	95,460	76,200	19,260	
VMP-33-20	2/17/2012	1019	-0.24	-0.28	90.9	OVR	6.9	2.0	119	76,200	55,800	20,400	
VMP-33-20	2/22/2012	841	0.00	0.09	OVR	OVR	7.4	1.5	100	108,000	60,600	47,400	
VMP-33-20	2/29/2012	843	-0.01	-0.38	31.9	OVR	7.4	1.3	120	39,200	35,050	4,150	
VMP-33-20	3/21/2012	840	-0.32	-0.32	1.1	23.00	7.4	2.7	40.1	5,430	4,940	490	
VMP-33-20	4/18/2012	1050	-0.17	-0.10	0.4	9.0	9.8	1.1	15.1	3,260	3,200	60	
VMP-33-20	5/16/2012	1027	-0.44	-0.43	0.0	0.0	12.0	1.5	3.1	724	661	63	
VMP-33-20	6/20/2012	1054	-0.25	-0.28	0.0	0.0	14.0	1.2	1.5	326	45.5	281	
VMP-33-20	7/18/2012	1113	-0.25	-0.16	0.0	0.0	16.8	3.5	1.1	80.1	3.8	76.3	
VMP-33-20	8/15/2012	928	-0.25	-0.25	0.0	0.0	17.6	6.5	0.8	36.0	1.2	34.8	
VMP-33-20	9/19/2012	1254	-0.18	-0.12	0.0	0.0	14.3	11.2	1.2	25.6	2.1	23.5	
VMP-33-20	10/17/2012	832	-0.38	-0.33	0.0	0.0	11.0	13.4	0.4	2.2	0.0	2.2	
VMP-33-20	11/20/2012	920	-0.42	-0.28	0.0	0.0	8.8	15.5	0.6	1.7	0.0	1.7	
VMP-33-20	12/19/2012	1002	-0.39	-0.34	0.0	0.0	9.2	14.5	0.2	0.4	0.0	0.4	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-33-30	2/15/2012	1605	-0.24	-0.60	OVR	OVR	7.3	1.6	89.7	200,000	137,000	63,000	
VMP-33-30	2/16/2012	1326	-0.48	-0.56	OVR	OVR	7.4	1.7	101	188,000	155,000	33,000	
VMP-33-30	2/17/2012	1019	-0.30	-0.34	OVR	OVR	7.3	1.3	106	249,000	118,000	131,000	
VMP-33-30	2/22/2012	842	0.00	0.15	OVR	OVR	7.5	1.4	86.3	219,000	141,000	78,000	
VMP-33-30	2/29/2012	844	-0.04	-0.06	OVR	OVR	7.4	1.4	111	136,000	106,000	30,000	
VMP-33-30	3/21/2012	840	-1.00	-0.80	74.6	OVR	7.3	1.7	110	114,000	89,500	24,500	
VMP-33-30	4/18/2012	1050	-0.21	-0.11	36.7	OVR	7.7	1.0	111	50,900	40,700	10,200	
VMP-33-30	5/16/2012	1028	-0.56	-0.56	7.3	OVR	9.2	0.8	73.6	24,200	20,000	4,200	
VMP-33-30	6/20/2012	1055	-0.30	-0.35	3.6	73.0	9.8	0.1	34.3	14,100	11,940	2,160	
VMP-33-30	7/18/2012	1114	-0.31	-0.20	2.5	50.0	10.5	1.4	30.7	11,900	9,910	1,990	
VMP-33-30	8/15/2012	929	-0.32	-0.31	2.0	21.0	10.8	2.1	36.0	9,100	7,400	1,700	
VMP-33-30	9/19/2012	1256	-0.24	-0.15	1.2	24.0	12.2	1.0	31.3	5,900	4,700	1,200	
VMP-33-30	10/17/2012	833	-0.48	-0.40	0.7	15.0	10.9	1.6	19.0	4,400	3,240	1,160	
VMP-33-30	11/20/2012	924	-0.54	-0.36	0.2	5.0	10.5	1.3	18.0	2,460	2100	360	
VMP-33-30	12/19/2012	1003	-0.52	-0.46	0.0	1.0	14.4	1.6	3.9	735	680	55.0	
VMP-34-10	2/15/2012	1615	-0.40	-0.38	OVR	OVR	9.2	1.3	49.4	315,000	271,000	44,000	
VMP-34-10	2/16/2012	1347	-0.86	-0.97	23.4	OVR	7.8	5.8	36.6	69,300	66,100	3,200	
VMP-34-10	2/17/2012	1054	-0.60	-0.50	19.0	OVR	9.7	2.0	31.8	68,900	68,000	900	
VMP-34-10	2/20/2012	1057	-0.49	-0.37	9.5	OVR	8.7	3.9	17.6	66,900	59,800	7,100	
VMP-34-10	2/21/2012	1018	-1.03	-1.06	48.7	OVR	8.9	3.9	38.2	211,000	105,000	106,000	
VMP-34-10	2/22/2012	908	0.00	0.06	OVR	OVR	9.1	1.7	50.4	199,000	199,000	0.0	
VMP-34-10	2/29/2012	922	-0.45	-0.50	OVR	OVR	8.9	1.4	46.2	367,000	268,000	99,000	
VMP-34-10	3/21/2012	915	-0.54	-0.49	OVR	OVR	7.8	4.2	30.0	212,000	210,000	2,000	
VMP-34-10	4/18/2012	1032	-0.36	-0.33	12.8	OVR	5.9	6.0	11.5	74,000	64,000	10,000	
VMP-34-10	5/16/2012	1044	-0.69	-0.68	3.1	64.0	2.6	16.0	11.0	24,300	20,400	3,900	
VMP-34-10	6/20/2012	859	-0.60	-0.43	0.8	17.0	1.9	18.9	4.8	2,300	1,170	1,130	
VMP-34-10	7/18/2012	933	-0.48	-0.49	0.3	6.0	2.0	18.0	8.3	2,730	2,600	130	
VMP-34-10	8/15/2012	902	-0.46	-0.47	0.0	0.0	0.3	20.7	2.0	75.0	6.3	68.7	
VMP-34-10	9/19/2012	1207	-0.55	-0.49	0.0	0.0	1.8	17.0	1.8	5.0	0.0	5.0	
VMP-34-10	10/17/2012	907	-0.61	-0.58	0.0	0.0	2.8	14.8	0.4	7.9	7.9	0.0	
VMP-34-10	11/20/2012	929	-0.66	-0.50	0.0	0.0	2.9	14.5	0.4	6.6	6.4	0.2	
VMP-34-10	12/19/2012	1042	-0.63	-0.44	0.0	0.0	2.2	15.8	0.6	3.4	0.0	3.4	
VMP-34-20	2/15/2012	1620	-0.36	-0.30	OVR	OVR	7.9	1.4	53.9	1,000,000	704,000	296,000	
VMP-34-20	2/16/2012	1348	-0.91	-1.02	OVR	OVR	7.2	2.8	56.2	1,000,000	946,000	54,000	
VMP-34-20	2/17/2012	1054	-0.57	-0.47	OVR	OVR	7.8	1.3	60.5	1,000,000	1,000,000	0.0	
VMP-34-20	2/20/2012	1102	-0.51	-0.39	OVR	OVR	7.6	1.9	59.1	1,000,000	925,000	75,000	
VMP-34-20	2/21/2012	1019	-1.21	-1.28	OVR	OVR	7.6	1.3	60.3	1,000,000	1,000,000	0.0	
VMP-34-20	2/22/2012	909	0.13	0.22	OVR	OVR	8.1	0.9	49.2	1,000,000	820,000	180,000	
VMP-34-20	2/29/2012	923	-0.49	-0.50	OVR	OVR	7.5	1.2	51.2	1,000,000	833,000	167,000	
VMP-34-20	3/21/2012	915	-0.68	-0.59	OVR	OVR	7.0	0.7	46.5	1,000,000	1,000,000	0.0	
VMP-34-20	4/18/2012	1032	-0.36	-0.34	OVR	OVR	6.0	1.2	47.5	1,000,000	1,000,000	0.0	
VMP-34-20	5/16/2012	1045	-0.88	-0.88	OVR	OVR	6.4	1.3	52.1	1,000,000	1,000,000	0.0	
VMP-34-20	6/20/2012	900	-0.78	-0.58	OVR	OVR	7.2	0.9	72.0	1,000,000	1,000,000	0.0	
VMP-34-20	7/18/2012	934	-0.65	-0.64	OVR	OVR	8.2	1.4	42.2	1,000,000	420,000	580,000	
VMP-34-20	8/15/2012	903	-0.60	-0.60	OVR	OVR	9.6	2.5	91.2	180,000	152,000	28,000	
VMP-34-20	9/19/2012	1208	-0.61	-0.57	OVR	OVR	10.1	2.0	94.6	179,000	152,000	27,000	
VMP-34-20	10/17/2012	908	-0.70	-0.65	OVR	OVR	7.1	1.9	65.2	1,000,000	650,000	350,000	
VMP-34-20	11/20/2012	933	-0.83	-0.62	OVR	OVR	10.8	1.1	158	159,000	135,000	24,000	
VMP-34-20	12/19/2012	1043	-0.79	-0.53	OVR	OVR	11.3	0.8	142	105,000	81,200	23,800	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-34-30	2/15/2012	1625	-0.27	-0.30	OVR	OVR	7.2	1.5	51.4	1,000,000	561,000	439,000	
VMP-34-30	2/16/2012	1349	-0.95	-1.03	OVR	OVR	7.0	2.2	59.6	1,000,000	878,000	122,000	
VMP-34-30	2/17/2012	1054	-0.59	-0.45	OVR	OVR	7.2	1.4	62.6	1,000,000	800,000	200,000	
VMP-34-30	2/20/2012	1103	-0.53	-0.42	OVR	OVR	7.2	1.8	60.8	1,000,000	936,000	64,000	
VMP-34-30	2/21/2012	1020	-1.26	-1.33	OVR	OVR	7.1	1.4	62.0	1,000,000	1,000,000	0.0	
VMP-34-30	2/22/2012	910	0.15	0.23	OVR	OVR	7.3	1.0	50.7	1,000,000	669,000	331,000	
VMP-34-30	2/29/2012	924	-0.49	-0.53	OVR	OVR	6.9	1.2	53.1	1,000,000	881,000	119,000	
VMP-34-30	3/21/2012	916	-0.68	-0.64	OVR	OVR	6.5	0.6	51.6	1,000,000	1,000,000	0.0	
VMP-34-30	4/18/2012	1032	-0.38	-0.35	OVR	OVR	5.7	0.9	52.0	1,000,000	1,000,000	0.0	
VMP-34-30	5/16/2012	1046	-0.93	-0.96	OVR	OVR	5.4	1.5	56.1	1,000,000	1,000,000	0.0	
VMP-34-30	6/20/2012	901	-0.84	-0.62	OVR	OVR	5.3	1.3	78.0	1,000,000	1,000,000	0	
VMP-34-30	7/18/2012	935	-0.70	-0.70	OVR	OVR	5.2	1.5	37.3	1,000,000	1,000,000	0	
VMP-34-30	8/15/2012	903	-0.66	-0.67	OVR	OVR	6.0	1.5	70.0	838,000	664,000	174,000	
VMP-34-30	9/19/2012	1210	-0.65	-0.62	OVR	OVR	6.7	1.5	82.6	1,000,000	536,000	464,000	
VMP-34-30	10/17/2012	909	-0.70	-0.64	OVR	OVR	9.6	1.7	84.6	775,000	371,000	404,000	
VMP-34-30	11/20/2012	937	-0.90	-0.68	OVR	OVR	7.9	1.3	108	1,000,000	804,000	196000	
VMP-34-30	12/19/2012	1044	-0.80	-0.59	OVR	OVR	8.7	1.2	118	1,000,000	765,000	235,000	
VMP-35-10	2/1/2012	1521	-0.59	-0.02	0.0	0.0	0.2	20.7	4.9	46.6	26.7	19.9	
VMP-35-10	2/2/2012	1031	-0.28	-0.25	0.0	0.0	0.2	21.0	2.4	10.9	3.1	7.9	
VMP-35-10	2/7/2012	840	-0.27	-0.24	0.0	0.0	0.2	20.9	3.5	2.0	0.0	2.0	
VMP-35-10	2/10/2012	1036	-0.15	-0.05	0.0	0.0	0.1	20.8	2.0	15.0	5.5	9.5	
VMP-35-10	2/13/2012	909	-0.13	0.02	0.0	0.0	0.1	20.9	0.3	2.1	0.0	2.1	
VMP-35-10	2/15/2012	1305	-0.27	-0.26	0.0	0.0	0.1	20.9	16.3	88.5	6.7	81.8	
VMP-35-10	2/22/2012	1005	-0.16	-0.10	0.0	0.0	0.3	20.9	0.7	8.8	0.0	8.8	
VMP-35-10	2/29/2012	944	-0.31	-0.31	0.1	3.0	0.3	20.9	53.4	347	32.7	314	
VMP-35-10	3/21/2012	932	-0.32	-0.30	0.0	0.0	0.1	20.9	0.1	10.2	3.9	6.3	
VMP-35-10	4/18/2012	854	-0.35	-0.42	0.0	0.0	0.0	20.9	0.5	5.4	0.0	5.4	
VMP-35-10	5/16/2012	900	-0.48	-0.44	0.0	0.0	0.0	20.8	0.4	3.3	0.0	3.3	
VMP-35-10	6/20/2012	925	-0.37	-0.33	0.0	0.0	0.0	20.9	0.4	6.3	0.0	6.3	
VMP-35-10	7/18/2012	952	-0.38	-0.35	0.0	0.0	0.0	20.9	0.9	8.6	3.4	5.3	
VMP-35-10	8/15/2012	952	-0.37	-0.38	0.0	0.0	0.0	20.9	0.7	5.2	4.7	0.5	
VMP-35-10	9/19/2012	1143	-0.47	-0.45	0.0	0.0	0.0	20.9	0.8	3.3	0.0	3.3	
VMP-35-10	10/17/2012	926	-0.56	-0.55	0.0	0.0	0.0	20.9	0.3	3.2	0.0	3.2	
VMP-35-10	11/20/2012	955	-0.52	-0.40	0.0	0.0	0.0	20.9	0.5	4.8	0.0	4.8	
VMP-35-10	12/19/2012	1051	-0.34	-0.22	0.0	0.0	0.0	20.9	0.6	3.3	0.0	3.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-35-20	2/1/2012	1522	-0.36	-0.09	OVR	OVR	7.7	2.2	140	230,000	155,000	75,000	
VMP-35-20	2/2/2012	1032	-0.88	-0.76	OVR	OVR	6.7	6.2	106	166,000	125,000	41,000	
VMP-35-20	2/7/2012	840	-0.83	-0.70	OVR	OVR	7.4	5.1	102	174,000	155,000	19,000	
VMP-35-20	2/10/2012	1037	-0.59	-0.02	OVR	OVR	6.9	5.0	117	189,000	136,000	53,000	
VMP-35-20	2/13/2012	910	-0.57	-0.05	OVR	OVR	6.8	4.8	107	255,000	161,000	94,000	
VMP-35-20	2/15/2012	1306	-0.71	-0.65	OVR	OVR	6.5	2.6	110	736,000	266,000	470,000	
VMP-35-20	2/22/2012	1006	-0.42	-0.29	OVR	OVR	8.1	1.7	144	800,000	205,000	595,000	
VMP-35-20	2/29/2012	945	-0.80	-0.80	OVR	OVR	7.4	4.8	136	233,000	123,000	110,000	
VMP-35-20	3/21/2012	932	-0.85	-0.80	33.4	OVR	4.2	10.3	51.1	137,000	113,000	24,000	
VMP-35-20	4/18/2012	854	-0.98	-1.07	20.5	OVR	3.5	11.2	100	31,600	24,900	6,700	
VMP-35-20	5/16/2012	921	-1.32	-1.26	20.7	OVR	2.0	15.6	180	17,600	11,200	6,400	
VMP-35-20	6/20/2012	926	-1.08	-0.95	2.5	50.0	1.0	18.2	86.0	2,840	2,600	240	
VMP-35-20	7/18/2012	953	-1.08	-1.03	0.9	19.0	1.0	18.4	53.6	3,534	2,039	1,495	
VMP-35-20	8/15/2012	953	-1.01	-1.10	9.0	OVR	1.8	17.0	252	7,030	2,790	4,240	
VMP-35-20	9/19/2012	1145	-1.38	-1.33	6.7	OVR	1.6	17.7	307	5,800	1,500	4,300	
VMP-35-20	10/17/2012	927	-1.39	-1.35	20.7	OVR	4.0	14.1	383	6,100	1,600	4,500	
VMP-35-20	11/20/2012	959	-1.34	-1.08	1.9	38.0	2.6	16.4	214	1,500	635	865	
VMP-35-20	12/19/2012	1055	-0.93	-0.69	1.4	28.0	2.2	17.1	175	1,320	510	810	
VMP-35-30	2/1/2012	1523	-0.33	-0.08	0.00	0.00	0.2	20.9	4.1	40.0	20.6	19.4	
VMP-35-30	2/2/2012	1033	-1.01	-0.88	OVR	OVR	3.7	2.5	38.8	1,000,000	1,000,000	0.0	
VMP-35-30	2/7/2012	840	-0.85	-0.75	OVR	OVR	3.8	1.5	35.9	1,000,000	1,000,000	0.0	
VMP-35-30	2/10/2012	1037	-0.51	20.10	OVR	OVR	3.5	2.0	39.4	1,000,000	1,000,000	0.0	
VMP-35-30	2/13/2012	911	-0.46	0.11	OVR	OVR	3.4	2.0	34.3	1,000,000	1,000,000	0.0	
VMP-35-30	2/15/2012	1307	-0.57	-0.53	OVR	OVR	3.6	1.6	41.7	1,000,000	1,000,000	0.0	
VMP-35-30	2/22/2012	1007	-0.28	-0.20	OVR	OVR	3.6	2.1	44.0	1,000,000	1,000,000	0.0	
VMP-35-30	2/29/2012	946	-0.78	-0.77	OVR	OVR	3.5	1.7	48.2	1,000,000	1,000,000	0.0	
VMP-35-30	3/21/2012	932	-0.95	-0.92	OVR	OVR	3.3	0.9	50.5	1,000,000	1,000,000	0.0	
VMP-35-30	4/18/2012	854	-1.04	-1.12	OVR	OVR	3.1	0.8	45.0	1,000,000	1,000,000	0.0	
VMP-35-30	5/16/2012	922	-1.50	-1.46	OVR	OVR	3.1	1.0	50.0	1,000,000	1,000,000	0.0	
VMP-35-30	6/20/2012	927	-1.25	-1.04	OVR	OVR	3.0	0.6	65.0	1,000,000	1,000,000	0.0	
VMP-35-30	7/18/2012	954	-1.28	-1.20	OVR	OVR	2.8	1.6	34.5	1,000,000	1,000,000	0.0	
VMP-35-30	8/15/2012	953	-1.25	-1.26	OVR	OVR	3.3	2.0	62.0	1,000,000	1,000,000	0.0	
VMP-35-30	9/19/2012	1147	-1.60	-1.57	OVR	OVR	3.6	3.1	65.6	1,000,000	762,000	238,000	
VMP-35-30	10/17/2012	928	-1.57	-1.49	OVR	OVR	4.5	1.2	52.2	1,000,000	1,000,000	0.0	
VMP-35-30	11/20/2012	1003	-1.57	-1.27	OVR	OVR	4.5	2.8	95.0	1,000,000	419,000	581000	
VMP-35-30	12/19/2012	1059	-1.17	-0.84	OVR	OVR	5.4	1.3	96.2	1,000,000	1,000,000	0.0	
VMP-36-10	2/1/2012	1649	-0.34	-0.29	0.0	0.0	0.3	20.6	4.7	18.0	0.0	18.0	
VMP-36-10	2/2/2012	917	-0.74	-0.60	0.0	0.0	0.2	20.8	1.7	6.4	0.0	6.4	
VMP-36-10	2/7/2012	1003	-0.41	-0.36	0.0	0.0	0.2	20.9	2.4	7.6	0.0	7.6	
VMP-36-10	2/10/2012	1023	-0.36	-0.01	0.0	0.0	0.1	20.8	1.7	8.3	4.3	4.0	
VMP-36-10	2/13/2012	1049	0.00	-0.10	0.0	0.0	0.2	20.8	0.5	2.5	0.0	2.5	
VMP-36-10	2/15/2012	1222	-0.44	-0.21	0.0	0.0	0.2	20.9	2.6	14.7	4.7	10.0	
VMP-36-10	2/22/2012	804	0.00	- 0.25	0.0	0.0	0.4	20.5	1.4	6.9	3.9	3.0	
VMP-36-10	2/29/2012	1346	-0.06	0.06	0.0	0.0	0.9	20.2	12.5	57.7	0.0	57.7	
VMP-36-10	3/21/2012	1100	-0.24	- 0.23	0.0	0.0	0.3	20.7	2.9	33.9	0.0	33.9	
VMP-36-10	4/18/2012	845	-0.36	-0.11	0.0	0.0	0.1	20.9	0.2	2.2	0.0	2.2	
VMP-36-10	5/16/2012	955	-0.65	-0.64	0.0	0.0	0.2	20.7	0.6	1.0	0.0	1.0	
VMP-36-10	6/20/2012	1036	-0.17	-0.35	0.0	0.0	0.1	20.6	1.0	0.8	0.0	0.8	
VMP-36-10	7/18/2012	1115	-0.20	-0.14	0.0	0.0	0.1	20.8	1.0	5.4	0.0	5.4	
VMP-36-10	8/15/2012	1045	-0.24	-0.21	0.0	0.0	0.2	20.7	1.0	7.2	5.6	1.6	
VMP-36-10	9/19/2012	1004	-0.42	-0.44	0.0	0.0	0.1	20.8	0.6	3.3	0.0	3.3	
VMP-36-10	10/17/2012	1021	-0.50	-0.47	0.0	0.0	0.1	20.8	0.6	4.2	0.0	4.2	
VMP-36-10	11/20/2012	1042	-0.40	-0.38	0.0	0.0	0.1	20.8	0.5	2.8	0.0	2.8	
VMP-36-10	12/19/2012	1005	-0.48	-0.44	0.0	0.0	0.1	20.8	0.7	3.2	0.0	3.2	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-36-20	2/1/2012	1650	-0.53	-0.05	OVR	OVR	8.2	3.6	98.6	1,000,000	770,000	230,000	
VMP-36-20	2/2/2012	918	-0.92	-0.57	OVR	OVR	8.7	1.5	80.0	1,000,000	480,000	520,000	
VMP-36-20	2/7/2012	1004	-0.68	-0.63	OVR	OVR	8.7	1.3	81.7	919,000	558,000	361,000	
VMP-36-20	2/10/2012	1024	-0.59	-0.54	OVR	OVR	8.2	1.5	74.3	1,000,000	930,000	70,000	
VMP-36-20	2/13/2012	1050	-0.20	0.15	OVR	OVR	8.2	1.5	67.6	1,000,000	931,000	69,000	
VMP-36-20	2/15/2012	1223	-1.21	0.14	OVR	OVR	8.3	1.2	76.5	1,000,000	1,000,000	0.0	
VMP-36-20	2/22/2012	805	-0.60	- 0.26	OVR	OVR	8.6	0.9	81.5	1,000,000	470,000	530,000	
VMP-36-20	2/29/2012	1347	-0.35	0.14	OVR	OVR	8.2	1.6	100	1,000,000	710,000	290,000	
VMP-36-20	3/21/2012	1101	0.05	0.50	OVR	OVR	8.0	0.6	118	1,000,000	1,000,000	0.0	
VMP-36-20	4/18/2012	845	-0.60	-0.19	OVR	OVR	7.4	1.2	142	752,000	324,000	428,000	
VMP-36-20	5/16/2012	955	-1.05	-1.06	OVR	OVR	7.1	2.8	180	735,000	217,000	518,000	
VMP-36-20	6/20/2012	1041	-0.63	-0.56	OVR	OVR	6.7	3.0	189	266,000	105,000	161,000	
VMP-36-20	7/18/2012	1119	-0.37	-0.25	OVR	OVR	5.9	6.5	95.0	416,000	123,000	293,000	
VMP-36-20	8/15/2012	1050	-0.42	-0.36	OVR	OVR	9.5	1.1	149	183,000	106,000	77,000	
VMP-36-20	9/19/2012	1004	-0.78	-0.77	OVR	OVR	8.3	3.4	245	264,000	54,200	209,800	
VMP-36-20	10/17/2012	1022	-0.90	-0.82	OVR	OVR	8.4	1.1	235	253,000	37,100	215,900	
VMP-36-20	11/20/2012	1046	-0.72	-0.68	OVR	OVR	8.5	1.0	349	262,000	41,400	220,600	
VMP-36-20	12/19/2012	1010	-0.84	-0.74	OVR	OVR	9.1	0.9	410	180,000	41,100	138,900	
VMP-36-30	2/1/2012	1651	-0.25	-0.23	OVR	OVR	8.1	1.0	140	1,000,000	425,000	575,000	
VMP-36-30	2/2/2012	920	-1.08	-0.87	OVR	OVR	8.0	1.5	130	1,000,000	472,000	528,000	
VMP-36-30	2/7/2012	1005	-0.57	-0.49	OVR	OVR	8.2	1.2	131	1,000,000	521,000	479,000	
VMP-36-30	2/10/2012	1025	-0.98	-0.35	OVR	OVR	7.6	2.0	122	1,000,000	1,000,000	0.0	
VMP-36-30	2/13/2012	1051	-0.36	-0.17	OVR	OVR	6.6	3.0	104	1,000,000	263,000	737,000	
VMP-36-30	2/15/2012	1224	-1.61	-0.89	OVR	OVR	6.2	1.6	95.0	1,000,000	986,000	14,000	
VMP-36-30	2/22/2012	806	-0.71	- 0.73	OVR	OVR	5.0	1.4	70.3	1,000,000	1,000,000	0.0	
VMP-36-30	2/29/2012	1348	-0.19	0.13	OVR	OVR	5.0	1.6	63.9	1,000,000	785,000	215,000	
VMP-36-30	3/21/2012	1102	-0.67	- 0.59	OVR	OVR	4.4	0.4	38.9	1,000,000	1,000,000	0.0	
VMP-36-30	4/18/2012	845	-1.20	-0.32	OVR	OVR	4.3	1.1	69.0	1,000,000	1,000,000	0.0	
VMP-36-30	5/16/2012	955	-1.65	-1.65	OVR	OVR	5.2	1.6	78.2	1,000,000	1,000,000	0.0	
VMP-36-30	6/20/2012	1046	-1.34	-1.24	OVR	OVR	4.9	3.0	96.4	1,000,000	402,000	598,000	
VMP-36-30	7/18/2012	1123	-1.32	-1.19	OVR	OVR	5.7	1.7	48.4	1,000,000	675,000	325,000	
VMP-36-30	8/15/2012	1055	-1.45	-1.38	OVR	OVR	7.1	1.0	103	1,000,000	373,000	627,000	
VMP-36-30	9/19/2012	1005	-2.22	-2.17	OVR	OVR	7.8	1.9	144	1,000,000	402,000	598,000	
VMP-36-30	10/17/2012	1023	-2.00	-1.90	NM	NM	NM	NM	NM	NM	NM	NM	Pullback during purge. Could not sample.
VMP-36-30	11/20/2012	1050	-1.69	-1.63	OVR	OVR	8.2	0.8	201	648,000	311,000	337000	
VMP-36-30	12/19/2012	1015	-1.63	-1.57	OVR	OVR	8.5	0.6	185	1,000,000	333,000	667,000	
VMP-37-10	2/2/2012	1348	0.00	-0.24	OVR	OVR	4.8	12.4	270	100,000	38,700	61,300	
VMP-37-10	2/3/2012	857	-0.26	-0.24	OVR	OVR	2.0	17.5	428	44,400	20,970	23,430	
VMP-37-10	2/7/2012	947	-0.31	0.04	38.1	OVR	1.5	18.2	369	21,390	14,950	6,440	
VMP-37-10	2/13/2012	1352	0.12	0.10	OVR	OVR	3.6	10.0	285	84,640	48,610	36,030	
VMP-37-10	2/14/2012	1531	-0.70	-0.57	11.5	OVR	0.8	20.8	458	11,300	4,860	6,440	
VMP-37-10	2/15/2012	1042	-0.65	-0.40	7.1	OVR	0.5	20.3	466	7,800	2,290	5,510	
VMP-37-10	2/22/2012	824	0.00	- 0.08	0.0	0.0	0.2	20.8	27.8	119.0	8.1	111	
VMP-37-10	2/29/2012	1330	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Stainless Steel Broken and Venting. Could not sample.
VMP-37-10	3/21/2012	1035	-0.25	- 0.14	11.9	OVR	0.9	18.5	404	16,200	9,000	7,200	
VMP-37-10	4/18/2012	917	-0.46	-0.42	4.8	97.0	0.4	20.1	375	6,225	2,050	4,175	
VMP-37-10	5/16/2012	936	-0.55	-0.53	1.4	28.0	0.3	20.3	275	2,600	790	1,810	
VMP-37-10	6/20/2012	1019	-0.34	-0.40	2.3	48.0	0.3	20.3	307	3,261	752	2,509	
VMP-37-10	7/18/2012	1053	-0.31	-0.23	1.6	32.0	0.4	19.9	298	3,500	1,035	2,465	
VMP-37-10	8/15/2012	1022	-0.32	-0.30	1.1	23.0	0.3	20.6	238	1,440	276	1,164	
VMP-37-10	9/19/2012	955	-0.56	-0.42	0.6	12.0	0.1	20.8	153	594	37.7	556	
VMP-37-10	10/17/2012	1002	-0.38	-0.51	0.2	5.0	0.2	20.6	101	418	49.9	368	
VMP-37-10	11/20/2012	1020	-0.46	-0.35	0.2	4.0	0.2	20.7	138	411	47.3	364	
VMP-37-10	12/19/2012	950	-0.42	-0.45	0.2	4.0	0.2	20.5	105	458	67.8	390	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-37-20	2/2/2012	1349	-0.26	-0.27	OVR	OVR	10.7	2.0	152	790,000	300,000	490,000	
VMP-37-20	2/3/2012	857	-0.43	-0.39	OVR	OVR	10.6	1.5	147	834,000	226,000	608,000	
VMP-37-20	2/7/2012	948	-0.49	-0.37	OVR	OVR	9.9	3.0	152	539,000	156,000	383,000	
VMP-37-20	2/13/2012	1353	-0.06	0.69	OVR	OVR	10.2	2.0	157	651,000	232,000	419,000	
VMP-37-20	2/14/2012	1532	-1.24	-1.10	OVR	OVR	7.4	6.5	193	367,000	164,000	203,000	
VMP-37-20	2/15/2012	1043	-1.18	-0.78	OVR	OVR	7.8	6.0	193	294,000	111,000	183,000	
VMP-37-20	2/22/2012	825	-0.46	- 0.34	OVR	OVR	8.2	3.7	219	238,000	156,000	82,000	
VMP-37-20	2/29/2012	1332	-0.20	-0.22	OVR	OVR	8.9	2.2	235	451,000	126,000	325,000	
VMP-37-20	3/21/2012	1034	-0.51	- 0.36	OVR	OVR	2.7	14.6	305	65,700	28,000	37,700	
VMP-37-20	4/18/2012	918	-0.04	-0.82	OVR	OVR	5.4	4.9	391	135,000	46,000	89,000	
VMP-37-20	5/16/2012	936	-0.70	-1.03	OVR	OVR	6.2	6.2	465	100,000	29,800	70,200	
VMP-37-20	6/20/2012	1028	-0.79	-0.81	OVR	OVR	6.8	5.7	513	68,100	20,000	48,100	
VMP-37-20	7/18/2012	1057	-0.85	-0.72	OVR	OVR	7.4	6.8	204	101,000	18,600	82,400	
VMP-37-20	8/15/2012	1027	-0.89	-0.84	OVR	OVR	8.6	7.0	252	57,600	11,500	46,100	
VMP-37-20	9/19/2012	955	-1.46	-1.27	OVR	OVR	7.1	9.0	438	64,800	11,400	53,400	
VMP-37-20	10/17/2012	1003	-1.13	-1.22	OVR	OVR	5.7	10.2	379	48,900	10,100	38,800	
VMP-37-20	11/20/2012	1022	-1.17	-0.95	OVR	OVR	5.8	8.3	442	71,300	9,700	61600	
VMP-37-20	12/19/2012	954	-0.96	-0.97	OVR	OVR	6.8	5.7	775	50,900	10,800	40100	
VMP-37-30	2/2/2012	1349	-0.06	-0.31	OVR	OVR	10.0	1.3	165	920,000	212,000	708,000	
VMP-37-30	2/3/2012	857	-0.46	-0.46	OVR	OVR	10.3	1.0	151	970,000	200,000	770,000	
VMP-37-30	2/7/2012	949	-0.75	-0.42	OVR	OVR	10.1	2.0	136	944,000	266,000	678,000	
VMP-37-30	2/13/2012	1354	-0.45	-0.36	OVR	OVR	10.3	1.0	129	1,000,000	233,000	767,000	
VMP-37-30	2/14/2012	1533	-2.15	-1.38	OVR	OVR	9.7	2.0	129	1,000,000	239,000	761,000	
VMP-37-30	2/15/2012	1044	-1.45	-1.06	OVR	OVR	9.9	2.0	126	1,000,000	347,000	653,000	
VMP-37-30	2/22/2012	826	-0.88	- 0.53	OVR	OVR	9.8	1.2	114	1,000,000	338,000	662,000	
VMP-37-30	2/29/2012	1334	-0.04	-0.08	OVR	OVR	9.4	1.1	123	1,000,000	462,000	538,000	
VMP-37-30	3/21/2012	1037	-0.16	- 0.49	OVR	OVR	9.3	1.0	142	1,000,000	1,000,000	0.0	
VMP-37-30	4/18/2012	919	-0.38	-0.27	OVR	OVR	8.8	1.5	217	205,000	130,000	75,000	
VMP-37-30	5/16/2012	937	-1.39	-1.34	OVR	OVR	9.0	1.3	240	141,000	84,000	57,000	
VMP-37-30	6/20/2012	1028	-1.08	-1.10	OVR	OVR	8.6	1.5	233	71,000	36,500	34,500	
VMP-37-30	7/18/2012	1101	-1.16	-1.03	OVR	OVR	10.1	1.2	212	55,000	37,500	17,500	
VMP-37-30	8/15/2012	1032	-1.22	-1.18	57.3	OVR	12.1	0.8	330	18,600	11,300	7,300	
VMP-37-30	9/19/2012	955	-2.02	-1.82	37.0	OVR	11.8	1.4	446	18,400	10,100	8,300	
VMP-37-30	10/17/2012	1004	-1.62	-1.75	30.6	OVR	11.9	1.2	392	12,400	9,400	3,000	
VMP-37-30	11/20/2012	1024	-1.60	-1.33	22.7	OVR	11.7	1.5	458	9,100	5,800	3,300	
VMP-37-30	12/19/2012	958	-1.28	-1.31	18.7	OVR	12.5	0.9	330	19,800	13,800	6000	
VMP-38-10	2/2/2012	1409	-0.25	-0.25	6.1	OVR	1.8	18.4	264	4,020	794	3,226	
VMP-38-10	2/3/2012	923	-0.05	-0.10	45.1	OVR	8.2	1.2	436	21,100	11,200	9,900	
VMP-38-10	2/7/2012	931	-0.32	-0.25	15.2	OVR	5.5	1.8	632	7,120	1,500	5,620	
VMP-38-10	2/15/2012	1014	-0.44	-0.34	5.9	OVR	8.0	4.2	400	3,440	1,100	2,340	
VMP-38-10	2/22/2012	851	0.15	-0.30	3.4	69.0	7.1	6.7	340	2,260	125	2,135	
VMP-38-10	2/29/2012	918	-0.18	- 0.22	4.7	93.0	8.8	2.8	435	2,790	188	2,602	
VMP-38-10	3/21/2012	1008	-0.10	- 0.11	0.2	4.0	12.1	1.2	82.5	625	307	318	
VMP-38-10	4/18/2012	944	-0.11	-0.26	0.0	0.0	8.5	10.0	26.8	80.0	25.3	54.7	
VMP-38-10	5/16/2012	919	-0.39	-0.37	0.0	0.0	8.9	8.9	7.3	50.0	24.7	25.3	
VMP-38-10	6/20/2012	1004	-0.20	-0.28	0.0	0.0	11.7	4.9	30.7	121	45.5	76	
VMP-38-10	7/18/2012	1034	-0.24	-0.19	0.0	0.0	14.2	2.9	9.1	32.6	14.6	18.0	
VMP-38-10	8/15/2012	1000	-0.26	-0.24	0.0	0.0	13.5	4.0	0.9	25.3	10.0	15.3	
VMP-38-10	9/19/2012	940	-0.39	-0.27	0.0	0.0	9.1	10.0	0.6	2.7	0.0	2.7	
VMP-38-10	10/17/2012	1040	-0.30	-0.35	0.0	0.0	8.9	7.8	0.7	2.3	0.0	2.3	
VMP-38-10	11/20/2012	1045	-0.29	-0.22	0.0	0.0	6.3	11.5	0.2	1.7	0.0	1.7	
VMP-38-10	12/19/2012	934	-0.31	-0.26	0.0	0.0	5.7	13.2	0.6	2.3	0.0	2.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-38-20	2/2/2012	1409	-0.38	-0.14	OVR	OVR	13.5	1.2	254	107,000	85,500	21,500	
VMP-38-20	2/3/2012	923	-0.01	-0.16	OVR	OVR	13.6	1.3	266	160,000	76,400	83,600	
VMP-38-20	2/7/2012	932	-0.50	-0.37	OVR	OVR	12.7	2.8	298	87,000	51,200	35,800	
VMP-38-20	2/15/2012	1015	-0.70	-0.55	OVR	OVR	12.2	1.5	409	65,900	27,200	38,700	
VMP-38-20	2/22/2012	852	-0.15	- 0.11	OVR	OVR	10.6	2.3	500	58,400	13,700	44,700	
VMP-38-20	2/29/2012	922	-0.33	- 0.34	OVR	OVR	8.6	5.4	555	52,800	7,870	44,930	
VMP-38-20	3/21/2012	1009	-0.29	- 0.24	OVR	OVR	10.5	0.6	493	132,000	24,200	107,800	
VMP-38-20	4/18/2012	945	-0.55	-0.41	OVR	OVR	11.9	1.2	616	53,000	7,300	45,700	
VMP-38-20	5/16/2012	915	-0.66	-0.65	OVR	OVR	13.8	0.8	645	46,400	5,000	41,400	
VMP-38-20	6/20/2012	1008	-0.38	-0.49	OVR	OVR	13.7	0.8	737	36,000	6,000	30,000	
VMP-38-20	7/18/2012	1038	-0.45	-0.35	OVR	OVR	12.8	1.0	401	52,400	3,400	49,000	
VMP-38-20	8/15/2012	1010	-0.46	-0.41	OVR	OVR	14.4	1.9	450	19,200	4,100	15,100	
VMP-38-20	9/19/2012	940	-0.72	-0.58	OVR	OVR	16.5	1.8	753	30,100	4,000	26,100	
VMP-38-20	10/17/2012	1041	-0.62	-0.60	OVR	OVR	15.9	0.8	646	24,300	3,450	20,850	
VMP-38-20	11/20/2012	1047	-0.55	-0.44	OVR	OVR	15.9	1.2	772	15,500	5,400	10100	
VMP-38-20	12/19/2012	938	-0.56	-0.47	60.9	OVR	16.3	0.9	1030	11,600	1,850	9,750	
VMP-38-30	2/2/2012	1409	-0.10	-0.59	OVR	OVR	13.2	1.5	184	415,000	180,000	235,000	
VMP-38-30	2/3/2012	923	-0.11	-0.31	OVR	OVR	13.3	1.5	173	309,000	150,000	159,000	
VMP-38-30	2/7/2012	933	-0.47	-0.12	OVR	OVR	13.2	1.0	186	204,000	113,000	91,000	
VMP-38-30	2/15/2012	1016	-0.70	-0.56	OVR	OVR	13.8	1.5	218	200,000	121,000	79,000	
VMP-38-30	2/22/2012	853	0.19	0.42	OVR	OVR	13.5	1.2	277	120,000	70,700	49,300	
VMP-38-30	2/29/2012	923	-0.31	- 0.33	OVR	OVR	13.2	1.3	374	169,000	68,720	100,280	
VMP-38-30	3/21/2012	1010	-0.29	0.28	OVR	OVR	12.5	0.8	331	210,000	83,300	126,700	
VMP-38-30	4/18/2012	945	-0.05	-0.33	OVR	OVR	10.5	1.0	461	83,500	34,400	49,100	
VMP-38-30	5/16/2012	915	-0.68	-0.66	0.1	2	8.7	9.7	7.0	54.300	30.200	24.100	Well damaged during sampling event.
VMP-38-30	6/20/2012	1012	0.00	-0.74	OVR	OVR	11.0	0.1	763	34,300	11,200	23,100	Well repaired before sampling.
VMP-38-30	7/18/2012	1042	-0.08	-0.21	OVR	OVR	11.4	1.1	515	26,000	9,600	16,400	
VMP-38-30	8/15/2012	1005	-0.42	-0.36	86.3	OVR	12.7	0.9	522	14,500	7,300	7,200	
VMP-38-30	9/19/2012	940	-0.64	-0.49	51.8	OVR	13.0	1.7	746	19,000	8,800	10,200	
VMP-38-30	10/17/2012	1043	-0.60	-0.45	48.7	OVR	13.7	1.0	683	11,300	6,200	5,100	
VMP-38-30	11/20/2012	1049	-0.44	-0.37	38.2	OVR	12.8	1.1	717	8,400	4,700	3,700	
VMP-38-30	12/19/2012	942	-0.51	-0.46	17.1	OVR	15.4	1.2	630	12,800	7,500	5,300	
VMP-39-10	2/6/2012	1104	-0.30	-0.26	54.5	OVR	11.5	7.2	442	20,200	8,000	12,200	
VMP-39-10	2/7/2012	910	-0.42	-0.32	19.6	OVR	3.2	17.8	557	9,460	184	9,276	
VMP-39-10	2/8/2012	909	-0.44	-0.43	9.5	OVR	2.1	18.8	557	6,530	64.5	6,466	
VMP-39-10	2/15/2012	942	-0.29	-0.30	2.9	59.0	2.2	18.4	432	3,000	21.0	2,979	
VMP-39-10	2/22/2012	913	-0.09	- 0.11	0.7	14.0	2.4	17.4	203	948	34.9	913	
VMP-39-10	2/29/2012	957	-0.24	- 0.21	0.4	8.0	4.9	14.3	161	910	322	588	
VMP-39-10	3/21/2012	948	-0.06	- 0.13	0.9	18.0	11.9	2.8	152	2,250	1,050	1,200	
VMP-39-10	4/18/2012	1012	-0.32	-0.27	0.0	0.0	5.0	15.6	37.4	185	23.50	162	
VMP-39-10	5/16/2012	857	-0.36	-0.41	0.0	0.0	4.8	15.3	19.4	89.4	22.8	66.6	
VMP-39-10	6/20/2012	942	-0.25	-0.30	0.0	0.0	2.7	17.0	11.0	58.0	24.8	33.2	
VMP-39-10	7/18/2012	1017	-0.20	-0.19	0.0	0.0	0.9	19.5	5.0	25.5	10.8	14.7	
VMP-39-10	8/15/2012	930	-0.21	-0.23	0.0	0.0	1.1	19.5	2.7	22.5	15.4	7.1	
VMP-39-10	9/19/2012	907	-0.44	-0.40	0.0	0.0	0.5	20.3	0.8	5.9	5.7	0.2	
VMP-39-10	10/17/2012	945	-0.30	-0.29	0.0	0.0	0.4	20.3	1.0	5.4	4.4	1.0	
VMP-39-10	11/20/2012	1104	-0.29	-0.25	0.0	0.0	0.5	20.3	1.7	8.0	3.7	4.3	
VMP-39-10	12/19/2012	916	-0.68	-0.23	0.0	0.0	0.5	20.0	0.2	3.7	0.0	3.7	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-39-20	2/6/2012	1105	-0.28	-0.36	OVR	OVR	14.3	1.2	186	189,000	189,000	0.0	
VMP-39-20	2/7/2012	911	-0.62	-0.46	OVR	OVR	12.9	3.8	179	103,000	101,000	2,000	
VMP-39-20	2/8/2012	910	-0.60	-0.66	OVR	OVR	14.5	1.6	200	169,000	100,000	69,000	
VMP-39-20	2/15/2012	943	-0.42	-0.47	27.9	OVR	4.9	12.8	201	32,580	22,930	9,650	
VMP-39-20	2/22/2012	914	-0.09	- 0.14	OVR	OVR	13.8	1.8	365	100,000	48,800	51,200	
VMP-39-20	2/29/2012	958	-0.41	- 0.32	OVR	OVR	12.1	3.6	375	77,900	41,150	36,750	
VMP-39-20	3/21/2012	949	-0.15	- 0.24	OVR	OVR	11.1	4.8	439	78,000	18,600	59,400	
VMP-39-20	4/18/2012	1013	-0.48	-0.41	OVR	OVR	11.8	2.0	520	52,000	22,000	30,000	
VMP-39-20	5/16/2012	857	-0.63	-0.70	OVR	OVR	12.8	1.3	570	56,500	21,400	35,100	
VMP-39-20	6/20/2012	946	-0.46	-0.49	OVR	OVR	12.7	0.9	571	46,200	19,300	26,900	
VMP-39-20	7/18/2012	1021	-0.43	-0.38	OVR	OVR	13.6	1.6	311	66,300	11,200	55,100	
VMP-39-20	8/15/2012	940	-0.45	-0.44	OVR	OVR	15.8	0.5	426	22,500	6,000	16,500	
VMP-39-20	9/19/2012	907	-0.89	-0.80	OVR	OVR	14.5	2.3	688	32,400	7,200	25,200	
VMP-39-20	10/17/2012	946	-0.67	-0.60	OVR	OVR	14.9	1.4	535	31,900	7,300	24,600	
VMP-39-20	11/20/2012	1106	-0.58	-0.50	OVR	OVR	16.1	1.4	638	26,300	5,400	20900	
VMP-39-20	12/19/2012	920	-0.40	-0.50	OVR	OVR	16.3	1.2	930	14,600	5,000	9600	
VMP-39-30	2/6/2012	1106	-0.44	-0.23	OVR	OVR	15.2	1.0	253	110,000	75,000	35,000	
VMP-39-30	2/7/2012	912	-0.50	-0.33	OVR	OVR	14.6	1.5	245	78,000	60,050	17,950	
VMP-39-30	2/8/2012	911	-0.51	-0.51	OVR	OVR	14.9	1.3	248	111,000	63,000	48,000	
VMP-39-30	2/15/2012	944	-0.29	-0.32	OVR	OVR	14.4	1.5	265	95,000	60,700	34,300	
VMP-39-30	2/22/2012	915	0.00	- 0.04	OVR	OVR	14.7	1.2	379	68,900	54,200	14,700	
VMP-39-30	2/29/2012	959	-0.28	- 0.20	OVR	OVR	13.0	3.4	414	68,600	30,940	37,660	
VMP-39-30	3/21/2012	950	-0.18	- 0.15	OVR	OVR	13.0	0.3	402	186,000	66,000	120,000	
VMP-39-30	4/18/2012	1014	0.00	-0.28	OVR	OVR	12.2	1.5	655	36,800	8,700	28,100	
VMP-39-30	5/16/2012	857	-0.54	-0.60	OVR	OVR	12.9	1.0	818	24,400	4,200	20,200	
VMP-39-30	6/20/2012	951	-0.36	-0.64	OVR	OVR	12.5	1.2	829	24,500	6,400	18,100	
VMP-39-30	7/18/2012	1025	-0.48	-0.48	OVR	OVR	13.0	1.5	542	29,900	3,900	26,000	
VMP-39-30	8/15/2012	945	-0.33	-0.62	OVR	OVR	15.8	0.6	583	15,450	6,200	9,250	
VMP-39-30	9/19/2012	907	-0.71	-0.59	OVR	OVR	16.3	1.4	816	14,200	5,700	8,500	
VMP-39-30	10/17/2012	947	-0.45	-0.40	OVR	OVR	16.4	0.6	758	13,000	4,200	8,800	
VMP-39-30	11/20/2012	1108	-0.42	-0.34	81.4	OVR	17.4	1.2	874	13,200	2,900	10,300	
VMP-39-30	12/19/2012	924	-0.28	-0.38	28.6	OVR	18.5	0.7	880	10,300	4,100	6,200	
VMP-40-10	2/6/2012	1047	-0.31	-0.12	0.6	12.0	0.7	20.1	12.2	5,080	5,080	0.0	
VMP-40-10	2/7/2012	854	-0.49	-0.41	0.0	1.0	0.2	20.9	7.8	237	221	16.1	
VMP-40-10	2/8/2012	848	-0.65	-0.52	0.0	0.0	0.2	20.9	2.0	34.3	14.3	20.0	
VMP-40-10	2/15/2012	920	-0.14	-0.39	0.0	1.0	0.3	20.6	10.6	1,306	1,264	42.0	
VMP-40-10	2/22/2012	949	0.20	0.13	OVR	OVR	11.8	2.1	15.4	711,000	464,000	247,000	
VMP-40-10	2/29/2012	1030	-0.16	- 0.19	1.4	29.0	0.9	19.7	53.0	13,200	18,050	-4,850	
VMP-40-10	3/6/2012	1009	-0.02	- 0.49	5.6	OVR	2.1	15.7	6.5	38,000	12,000	26,000	Benzene Reading: 0.0ppm
VMP-40-10	3/7/2012	911	-0.06	- 0.11	0.7	15.0	0.6	20.4	5.6	6,320	443	5,877	Benzene Reading: 0.0ppm
VMP-40-10	3/21/2012	904	-0.33	- 0.28	0.1	3.0	0.2	20.6	0.4	1,250	1,250	0.0	
VMP-40-10	4/18/2012	1045	-0.27	-0.21	0.0	0.0	0.1	20.9	0.5	105	105	0	
VMP-40-10	5/16/2012	839	-0.53	-0.52	0.0	0.0	0.1	20.8	0.3	33.0	33.0	0.0	
VMP-40-10	6/20/2012	924	-0.40	-0.34	0.0	0.0	1.2	20.6	0.6	14.7	14.2	0.5	
VMP-40-10	7/18/2012	1000	-0.33	-0.26	0.0	0.0	0.1	20.6	0.9	8.7	6.5	2.2	
VMP-40-10	8/15/2012	915	-0.37	-0.34	0.0	0.0	0.1	20.8	0.7	7.7	7.4	0.3	
VMP-40-10	9/19/2012	848	-0.74	-0.67	0.0	0.0	0.0	20.8	0.4	2.7	0.0	2.7	
VMP-40-10	10/17/2012	923	-0.56	-0.49	0.0	0.0	0.1	20.9	0.5	3.1	0.0	3.1	
VMP-40-10	11/20/2012	1001	-0.79	-0.61	0.0	0.0	0.0	20.9	0.7	2.5	0.0	2.5	
VMP-40-10	12/19/2012	859	-0.36	-0.46	0.0	0.0	0.1	20.7	0.3	0.9	0.0	0.9	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-40-20	2/6/2012	1048	0.62	0.65	OVR	OVR	12.7	1.3	55.6	1,000,000	1,000,000	0.0	
VMP-40-20	2/7/2012	855	-0.44	-0.47	OVR	OVR	12.8	1.2	53.1	749,000	666,000	83,000	
VMP-40-20	2/8/2012	849	0.07	-0.61	OVR	OVR	12.4	1.5	49.5	880,000	306,000	574,000	
VMP-40-20	2/15/2012	921	-0.18	-0.43	OVR	OVR	12.7	1.0	39.5	990,000	664,000	326,000	
VMP-40-20	2/22/2012	950	0.22	0.13	OVR	OVR	12.7	1.4	37.8	843,000	598,000	245,000	
VMP-40-20	2/29/2012	1031	-0.22	- 0.24	OVR	OVR	11.6	2.0	50.1	1,000,000	727,000	273,000	
VMP-40-20	3/6/2012	1015	-0.06	-0.27	OVR	OVR	11.2	1.2	46.0	856,000	772,000	84,000	Benzene Reading: 11.2ppm
VMP-40-20	3/7/2012	912	-0.52	- 0.21	OVR	OVR	12.2	0.9	36.6	993,000	610,000	383,000	Benzene Reading: 8.3ppm
VMP-40-20	3/21/2012	905	-0.47	- 0.64	OVR	OVR	11.9	0.7	34.7	1,000,000	1,000,000	0.0	
VMP-40-20	4/18/2012	1046	-0.32	-0.25	OVR	OVR	10.6	1.5	36.5	1,000,000	833,000	167,000	
VMP-40-20	5/16/2012	839	-0.62	-0.63	OVR	OVR	11.4	1.4	33.7	1,000,000	1,000,000	0.0	
VMP-40-20	6/20/2012	928	-0.45	-0.39	OVR	OVR	11.4	0.6	41.7	1,000,000	1,000,000	0.0	
VMP-40-20	7/18/2012	1008	-0.40	-0.31	OVR	OVR	10.8	1.7	32.4	363,000	360,000	3,000	
VMP-40-20	8/15/2012	920	-0.43	-0.40	OVR	OVR	12.5	0.5	75.4	91,700	70,000	21,700	
VMP-40-20	9/19/2012	849	-0.85	-0.78	OVR	OVR	11.0	1.8	130	160,000	102,000	58,000	
VMP-40-20	10/17/2012	924	-0.64	-0.52	88.0	OVR	11.3	0.5	119	101,000	85,400	15,600	
VMP-40-20	11/20/2012	1003	-0.90	-0.68	84.8	OVR	10.9	0.7	204	76,700	68,100	8,600	
VMP-40-20	12/19/2012	903	-0.42	-0.51	58.0	OVR	11.0	0.9	121	124,000	99,000	25,000	
VMP-40-30	2/6/2012	1049	-0.05	-0.71	OVR	OVR	13.7	1.0	52.6	1,000,000	587,000	413,000	
VMP-40-30	2/7/2012	856	-0.04	-0.44	OVR	OVR	13.8	1.0	48.8	532,000	438,000	94,000	
VMP-40-30	2/8/2012	850	-0.70	-0.60	OVR	OVR	15.5	1.0	47.3	628,000	392,000	236,000	
VMP-40-30	2/15/2012	922	-0.19	-0.62	OVR	OVR	12.7	2.0	38.2	614,000	614,000	0.0	
VMP-40-30	2/22/2012	951	0.62	0.18	OVR	OVR	13.2	1.0	38.6	934,000	624,000	310,000	
VMP-40-30	2/29/2012	1032	-0.16	- 0.21	OVR	OVR	12.8	1.2	44.8	1,000,000	838,000	162,000	
VMP-40-30	3/6/2012	1020	-0.58	0.02	OVR	OVR	12.7	0.9	41.8	1,000,000	945,000	55,000	Benzene Reading: 10.5ppm
VMP-40-30	3/7/2012	913	-0.61	- 0.18	OVR	OVR	13.1	1.2	35.5	1,000,000	902,000	98,000	Benzene Reading: 9.8ppm
VMP-40-30	3/21/2012	906	-0.36	- 0.42	OVR	OVR	12.6	0.4	34.7	1,000,000	1,000,000	0.0	
VMP-40-30	4/18/2012	1047	-0.44	-0.85	OVR	OVR	11.6	4.3	35.0	1,000,000	1,000,000	0.0	
VMP-40-30	5/16/2012	839	-0.38	-0.66	OVR	OVR	11.4	0.9	25.8	1,000,000	1,000,000	0.0	
VMP-40-30	6/20/2012	932	-0.10	-1.04	OVR	OVR	10.7	0.3	32.0	1,000,000	1,000,000	0.0	
VMP-40-30	7/18/2012	1004	-0.44	-0.49	OVR	OVR	9.9	1.6	19.4	1,000,000	1,000,000	0.0	
VMP-40-30	8/15/2012	925	-0.58	-0.37	OVR	OVR	11.1	0.9	37.0	390,000	292,000	98,000	
VMP-40-30	9/19/2012	849	-0.85	-0.84	OVR	OVR	10.5	1.7	47.4	274,000	163,000	111,000	
VMP-40-30	10/17/2012	925	0.00	-0.52	OVR	OVR	11.1	0.7	52.3	188,000	120,000	68,000	
VMP-40-30	11/20/2012	1005	-0.93	-0.71	61.2	OVR	11.8	0.6	80.8	102,000	102,000	0.0	
VMP-40-30	12/19/2012	907	-0.46	-0.97	84.4	OVR	10.8	1.7	73.6	204,000	160,000	44,000	
VMP-42-10	2/16/2012	816	-0.16	-0.23	0.0	0.0	6.7	12.8	0.5	3.6	0.0	3.6	
VMP-42-10	2/17/2012	1426	-0.01	-0.01	0.0	0.0	7.0	13.8	0.9	15.1	15.1	0.0	
VMP-42-10	2/20/2012	1402	0.00	3.29	0.0	0.0	6.2	15.3	0.8	10.1	7.7	2.5	
VMP-42-10	2/21/2012	815	-0.08	-0.12	0.0	0.0	5.0	16.9	1.2	7.9	7.9	0.0	
VMP-42-10	2/22/2012	900	-0.02	- 0.02	0.0	0.0	5.5	16.2	0.7	17.2	14.2	3.0	
VMP-42-10	2/29/2012	944	0.00	0.00	0.0	0.0	4.2	17.8	0.7	2.6	0.0	2.6	
VMP-42-10	3/21/2012	1443	0.00	0.00	0.0	0.0	3.4	18.3	0.5	0.0	0.0	0.0	
VMP-42-10	4/18/2012	1017	-0.04	0.00	0.0	0.0	2.4	18.9	0.2	1.8	0.0	1.8	
VMP-42-10	5/16/2012	932	-0.10	-0.13	0.0	0.0	2.2	19.1	0.3	0.0	0.0	0.0	
VMP-42-10	6/20/2012	1405	-0.05	-0.04	0.0	0.0	2.4	18.7	1.0	2.7	0.0	2.7	
VMP-42-10	7/18/2012	1514	0.00	0.00	0.0	0.0	2.3	18.6	0.6	2.7	0.0	2.7	
VMP-42-10	8/15/2012	1439	0.01	-0.04	0.0	0.0	2.3	19.0	1.1	4.1	0.0	4.1	
VMP-42-10	9/19/2012	942	-0.05	-0.08	0.0	0.0	1.6	19.5	0.5	1.8	0.0	1.8	
VMP-42-10	10/17/2012	827	0.00	-0.09	0.0	0.0	1.0	19.9	0.4	0.7	0.0	0.7	
VMP-42-10	11/20/2012	1527	-0.07	-0.08	0.0	0.0	0.7	20.1	0.2	1.8	0.0	1.8	
VMP-42-10	12/19/2012	1005	-0.11	-0.03	0.0	0.0	0.5	20.4	0.1	0.6	0.0	0.6	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-42-20	2/16/2012	817	-0.18	-0.73	4.6	93.0	13.5	1.4	96.3	9,580	6,940	2,640	
VMP-42-20	2/17/2012	1426	-0.01	-0.01	43.6	OVR	13.2	1.2	189	29,100	15,610	13,490	
VMP-42-20	2/20/2012	1403	-0.07	-0.20	36.3	OVR	13.6	0.9	190	27,370	12,140	15,230	
VMP-42-20	2/21/2012	816	-0.37	-0.42	1.3	27.0	13.9	1.4	76.6	3,040	2,030	1,010	
VMP-42-20	2/22/2012	900	0.00	- 0.02	12.0	OVR	14.0	1.1	169	14,000	5,170	8,830	
VMP-42-20	2/29/2012	945	-0.26	0.11	1.2	23.0	14.1	1.1	79.2	3,100	1,360	1,740	
VMP-42-20	3/21/2012	1444	-0.12	0.00	0.2	5.0	14.2	0.8	11.5	1,100	950	150	
VMP-42-20	4/18/2012	1018	-0.19	-0.10	0.0	0.0	9.4	9.8	0.3	2.2	0.0	2.2	
VMP-42-20	5/16/2012	937	-0.35	-0.37	0.0	0.0	7.5	13.5	0.4	1.0	0.0	1.0	
VMP-42-20	6/20/2012	1410	-0.09	-0.06	0.0	0.0	7.1	13.4	1.0	1.9	0.0	1.9	
VMP-42-20	7/18/2012	1515	-0.01	0.00	0.0	0.0	6.5	14.0	0.5	1.4	0.0	1.4	
VMP-42-20	8/15/2012	1444	-0.03	-0.06	0.0	0.0	6.7	15.3	1.0	2.8	0.0	2.8	
VMP-42-20	9/19/2012	943	-0.34	-0.31	0.0	0.0	5.2	16.6	0.7	0.9	0.0	0.9	
VMP-42-20	10/17/2012	828	-0.26	-0.28	0.0	0.0	4.4	17.4	0.5	0.2	0.0	0.2	
VMP-42-20	11/20/2012	1532	-0.23	-0.28	0.0	0.0	3.5	18.1	0.3	0.2	0.0	0.2	
VMP-42-20	12/19/2012	1010	-0.27	-0.10	0.0	0.0	3.3	18.4	0.2	0.9	0.0	0.0	
VMP-42-30	2/16/2012	818	-0.66	-1.20	OVR	OVR	11.6	1.9	161	63,100	43,060	20,040	
VMP-42-30	2/17/2012	1426	0.15	NM	NM	NM	NM	NM	NM	NM	NM	NM	Pullback during purge.
VMP-42-30	2/20/2012	1404	-0.23	-0.39	OVR	OVR	11.6	1.2	183	71,800	36,860	34,940	
VMP-42-30	2/21/2012	817	-0.68	-0.73	OVR	OVR	11.7	1.7	188	96,700	42,600	54,100	
VMP-42-30	2/22/2012	900	-0.02	0.05	OVR	OVR	11.9	1.9	161	88,630	32,020	56,610	
VMP-42-30	2/29/2012	946	-0.28	- 0.23	OVR	OVR	12.3	1.4	203	54,000	18,440	35,560	
VMP-42-30	3/21/2012	1445	0.09	0.07	48.00	OVR	12.5	0.9	197	25,900	10,300	15,600	
VMP-42-30	4/18/2012	1019	-0.25	-0.12	9.7	OVR	10.9	1.0	129	8,500	4,260	4,240	
VMP-42-30	5/16/2012	943	-0.58	-0.30	2.6	46.0	10.1	1.4	88.5	2,000	1,300	700	
VMP-42-30	6/20/2012	1415	-0.09	-0.02	0.7	13.0	10.0	0.1	49.5	1,000	0.00	1,000	
VMP-42-30	7/18/2012	1516	-0.02	0.00	0.1	3.0	9.1	1.2	33.0	413	255	158	
VMP-42-30	8/15/2012	1448	-0.03	-0.07	0.0	0.0	10.4	1.5	11.9	165	145	20.0	
VMP-42-30	9/19/2012	944	-0.62	-0.56	0.0	0.0	10.1	8.6	3.0	4.7	0.0	4.7	
VMP-42-30	10/17/2012	829	-0.41	-0.42	0.0	0.0	9.5	11.0	2.1	14.5	14.3	0.2	
VMP-42-30	11/20/2012	1534	-0.46	-0.52	0.0	0.0	7.3	14.0	0.7	6.0	4.3	1.8	
VMP-42-30	12/19/2012	1015	-0.54	-0.14	0.0	0.0	7.7	13.9	0.4	3.7	0.0	3.7	
VMP-43-10	2/1/2012	1430	-0.95	-0.94	0.0	0.0	0.4	20.5	0.2	1.2	0.0	1.2	
VMP-43-10	2/2/2012	851	1.24	-1.05	0.0	0.0	0.4	20.4	1.0	3.1	0.0	3.1	
VMP-43-10	2/7/2012	901	-1.00	-0.89	0.0	0.0	0.5	20.4	0.2	0.0	0.0	0.0	
VMP-43-10	2/10/2012	856	-0.24	-0.98	0.0	0.0	0.2	20.7	1.4	8.1	6.5	1.6	
VMP-43-10	2/13/2012	811	-0.92	-0.92	0.0	0.0	0.3	20.7	0.7	1.0	0.0	1.0	
VMP-43-10	2/16/2012	754	-1.62	-1.75	0.0	0.0	0.4	20.6	0.9	4.5	0.0	4.5	
VMP-43-10	2/17/2012	847	-1.02	-0.81	0.0	0.0	0.4	20.9	3.0	2.9	0.0	2.9	
VMP-43-10	2/22/2012	1032	-0.02	- 0.66	0.0	0.0	0.4	20.9	0.6	2.5	0.0	2.5	
VMP-43-10	2/29/2012	1046	0.00	- 0.68	0.0	0.0	0.5	20.4	0.8	2.8	0.0	2.8	
VMP-43-10	3/21/2012	1500	-0.35	- 0.33	0.0	0.0	0.9	19.0	0.8	0.0	0.0	0.0	
VMP-43-10	4/18/2012	1101	-0.99	-0.89	0.0	0.0	0.7	19.5	0.6	2.9	0.0	2.9	
VMP-43-10	5/16/2012	1029	-1.09	-1.03	0.0	0.0	1.2	19.6	0.2	3.8	0.0	3.8	
VMP-43-10	6/20/2012	1435	-0.30	-0.30	0.0	0.0	1.6	19.2	0.6	4.0	0.0	4.0	
VMP-43-10	7/18/2012	1502	-0.22	-0.18	0.0	0.0	0.7	19.8	0.8	5.5	3.8	1.6	
VMP-43-10	8/15/2012	1530	-0.85	-0.92	0.0	0.0	0.7	20.1	1.0	4.3	0.0	4.3	
VMP-43-10	9/19/2012	1137	-1.56	-1.56	0.0	0.0	0.0	20.9	1.3	3.5	0.0	3.5	
VMP-43-10	10/17/2012	853	-0.14	-0.67	0.0	0.0	0.5	19.9	0.4	1.5	0.0	1.5	
VMP-43-10	11/20/2012	1315	-0.50	-0.55	0.0	0.0	0.3	20.6	0.3	1.3	0.0	1.3	
VMP-43-10	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-43-20	2/1/2012	1438	-1.28	-1.06	OVR	OVR	10.3	1.6	161	442,000	115,000	327,000	
VMP-43-20	2/2/2012	859	-1.64	-1.35	OVR	OVR	10.0	1.1	115	1,000,000	385,000	615,000	
VMP-43-20	2/7/2012	902	-1.30	-1.18	OVR	OVR	9.2	2.0	96.4	1,000,000	739,000	261,000	
VMP-43-20	2/10/2012	857	-0.33	-3.32	OVR	OVR	6.3	6.0	87.6	659,000	469,000	190,000	
VMP-43-20	2/13/2012	812	-1.33	-1.28	0.3	6.0	5.1	15.2	29.6	1,513	78.3	1,435	
VMP-43-20	2/16/2012	755	-2.25	-4.57	0.0	1.0	5.0	16.1	18.2	392	259	133	
VMP-43-20	2/17/2012	848	-6.27	-1.27	0.1	3.0	4.8	16.3	22.5	305	176	129	
VMP-43-20	2/22/2012	1033	-0.66	- 0.87	0.1	2.0	4.5	16.7	22.9	368	191	178	
VMP-43-20	2/29/2012	1048	-0.07	- 0.93	0.5	11.0	4.9	15.5	77.3	1,375	547	828	
VMP-43-20	3/21/2012	1501	-0.35	- 0.30	0.1	2.0	5.1	14.4	19.8	315	29.2	286	
VMP-43-20	4/18/2012	1102	-1.05	-0.90	0.0	0.0	3.8	16.0	10.9	127	54.0	73.0	
VMP-43-20	5/16/2012	1033	-1.33	-1.28	0.0	0.0	3.2	17.0	14.6	115	53.5	61.5	
VMP-43-20	6/20/2012	1440	-0.43	-0.43	0.0	0.0	3.5	16.6	8.8	36.4	13.5	22.9	
VMP-43-20	7/18/2012	1503	-0.20	-0.19	0.0	0.0	2.8	17.5	5.1	35.4	17.8	17.7	
VMP-43-20	8/15/2012	1535	-0.82	-1.01	0.0	0.0	3.0	18.3	3.0	24.5	13.7	10.8	
VMP-43-20	9/19/2012	1138	-1.78	-1.70	0.0	0.0	2.5	18.3	3.5	26.5	20.2	6.3	
VMP-43-20	10/17/2012	853	-1.03	-0.33	0.0	0.0	2.3	18.5	0.9	7.6	5.2	2.4	
VMP-43-20	11/20/2012	1319	-0.77	-0.84	0.0	0.0	2.3	18.3	1.0	11.7	8.3	3.4	
VMP-43-20	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.
VMP-43-30	2/1/2012	1445	-0.96	-0.73	OVR	OVR	8.5	1.0	98.2	1,000,000	1,000,000	0.0	
VMP-43-30	2/2/2012	904	-1.26	-1.08	OVR	OVR	8.3	2.0	88.0	1,000,000	320,000	680,000	
VMP-43-30	2/7/2012	903	-1.05	-0.92	OVR	OVR	7.7	6.2	113	850,000	272,000	578,000	
VMP-43-30	2/10/2012	858	-0.27	-1.14	3.3	65.0	2.8	16.8	43.7	16,100	16,000	100	
VMP-43-30	2/13/2012	813	-1.09	-1.03	OVR	OVR	9.6	1.3	155	269,000	107,000	162,000	
VMP-43-30	2/16/2012	756	-2.12	-4.20	OVR	OVR	10.7	1.4	234	80,600	43,130	37,470	
VMP-43-30	2/17/2012	849	-13.12	-0.98	38.7	OVR	10.3	1.7	236	25,830	21,550	4,280	
VMP-43-30	2/22/2012	1033	-0.85	- 0.64	0.5	11.0	10.0	5.4	62.8	2,330	2,100	230	
VMP-43-30	2/29/2012	1047	-0.32	- 0.76	0.0	1.0	8.2	9.1	43.2	922	475	446	
VMP-43-30	3/21/2012	1502	-0.40	- 0.45	0.2	4.0	9.3	7.5	52.4	108	0.0	108	
VMP-43-30	4/18/2012	1103	-1.26	-0.42	0.0	0.0	4.1	15.3	2.6	24.3	5.1	19.2	
VMP-43-30	5/16/2012	1038	-1.50	-1.46	0.0	0.0	2.6	17.7	4.0	14.6	5.8	8.8	
VMP-43-30	6/20/2012	1445	-0.44	-0.44	0.0	0.0	2.7	17.6	3.3	3.0	0.0	3.0	
VMP-43-30	7/18/2012	1504	-0.29	-0.25	0.0	0.0	2.1	18.3	1.0	10.0	7.6	2.4	
VMP-43-30	8/15/2012	1540	-1.20	-1.28	0.0	0.0	2.3	18.7	0.7	9.1	7.3	1.8	
VMP-43-30	9/19/2012	1139	-2.26	-2.12	0.0	0.0	1.5	19.5	0.8	4.8	0.0	4.8	
VMP-43-30	10/17/2012	853	-0.96	-1.01	0.0	0.0	0.5	19.9	0.3	1.1	0.0	1.1	
VMP-43-30	11/20/2012	1323	-0.77	-0.84	0.0	0.0	1.9	18.4	0.2	1.2	0.0	1.2	
VMP-43-30	12/19/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Construction equipment parked on well. Could not access.
VMP-44-10	2/2/2012	1456	-0.02	-0.09	OVR	OVR	10.2	1.0	562	49,000	20,000	29,000	
VMP-44-10	2/3/2012	909	-0.29	0.11	79.7	OVR	9.9	1.0	494	29,600	11,200	18,400	
VMP-44-10	2/7/2012	1109	0.25	-0.05	80.8	OVR	9.6	1.5	528	26,600	11,000	15,600	
VMP-44-10	2/13/2012	1446	-0.24	-0.22	63.5	OVR	9.6	1.3	522	24,900	11,290	13,610	
VMP-44-10	2/14/2012	1622	-0.12	-0.12	30.8	OVR	7.1	6.7	534	14,400	3,550	10,850	
VMP-44-10	2/15/2012	1431	-0.11	-0.36	79.0	OVR	7.5	3.0	715	18,100	5,450	12,650	
VMP-44-10	2/22/2012	911	-0.15	0.00	44.7	OVR	7.9	2.5	674	13,100	3,740	9,360	
VMP-44-10	2/29/2012	1405	0.24	- 0.32	76.0	OVR	9.1	1.4	753	17,930	2,300	15,630	
VMP-44-10	3/21/2012	827	-0.42	- 0.07	30.6	OVR	8.1	4.7	643	10,400	545	9,855	
VMP-44-10	4/18/2012	837	-0.11	-0.10	19.1	OVR	8.5	7.3	561	7,000	2,850	4,150	
VMP-44-10	5/16/2012	1325	-0.11	-0.10	12.7	OVR	9.6	7.3	625	4,500	159	4,341	
VMP-44-10	6/20/2012	1359	-0.02	-0.05	28.0	OVR	14.2	1.9	704	4,900	477	4,423	
VMP-44-10	7/18/2012	1428	0.00	-0.10	35.7	OVR	16.1	1.7	654	9,240	350	8,890	
VMP-44-10	8/15/2012	1100	-0.07	-0.05	34.0	OVR	14.9	3.0	488	6,600	1,080	5,520	
VMP-44-10	9/19/2012	1511	-0.07	-0.06	7.1	OVR	8.0	9.8	510	2,200	160	2,040	
VMP-44-10	10/17/2012	953	-0.13	-0.08	3.8	76.0	9.6	5.9	435	1,540	231	1,309	
VMP-44-10	11/20/2012	910	-0.02	-0.04	0.7	16.0	8.2	7.8	233	653	71.6	581	
VMP-44-10	12/19/2012	838	-0.10	-0.11	0.0	0.0	1.3	18.7	4.8	28.3	5.5	22.8	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-44-20	2/2/2012	1501	-0.16	-0.04	OVR	OVR	13.4	0.6	427	32,000	18,700	13,300	
VMP-44-20	2/3/2012	914	-0.11	-0.15	78.7	OVR	13.1	0.9	384	34,000	16,500	17,500	
VMP-44-20	2/7/2012	1110	-0.14	-0.11	61.4	OVR	13.1	1.2	440	20,610	9,700	10,910	
VMP-44-20	2/13/2012	1447	-0.28	-0.29	32.5	OVR	12.7	1.1	443	14,140	7,670	6,470	
VMP-44-20	2/14/2012	1623	-0.16	-0.62	25.2	OVR	11.9	2.0	390	13,790	7,800	5,990	
VMP-44-20	2/15/2012	1432	-0.28	-0.54	36.3	OVR	12.1	1.2	577	13,100	5,480	7,620	
VMP-44-20	2/22/2012	920	-0.26	- 0.25	16.2	OVR	11.7	1.2	445	12,640	4,770	7,870	
VMP-44-20	2/29/2012	1409	-0.04	- 0.05	19.6	OVR	11.5	0.9	489	11,100	3,230	7,870	
VMP-44-20	3/21/2012	831	-0.07	- 0.40	15.2	OVR	11.9	0.0	503	7,820	2,180	5,640	
VMP-44-20	4/18/2012	847	-0.22	-0.07	5.6	OVR	11.4	2.4	342	3,040	716	2,324	
VMP-44-20	5/16/2012	1330	-0.31	-0.49	5.6	OVR	11.9	3.8	398	2,700	110	2,590	
VMP-44-20	6/20/2012	1400	-0.05	-0.24	6.6	OVR	14.1	2.2	353	2,480	266	2,214	
VMP-44-20	7/18/2012	1429	0.00	0.00	8.5	OVR	15.2	3.1	453	1,720	218	1,502	
VMP-44-20	8/15/2012	1110	-0.32	-0.30	5.3	OVR	17.2	2.8	334	2,460	380	2,080	
VMP-44-20	9/19/2012	1512	-0.49	-0.49	3.0	61.0	15.6	4.6	316	1,770	184	1,586	
VMP-44-20	10/17/2012	955	-0.83	-0.74	1.2	26.0	13.6	5.1	173	1,020	146	874	
VMP-44-20	11/20/2012	912	-0.72	-0.71	0.4	9.0	12.5	5.6	131	456	71.8	384	
VMP-44-20	12/19/2012	841	-0.58	-0.47	0.2	5.0	11.7	5.9	80.7	255	57.8	197	
VMP-44-30	2/2/2012	1505	-0.24	-0.07	OVR	OVR	8.8	3.5	207	195,000	72,000	123,000	
VMP-44-30	2/3/2012	919	-0.26	-0.26	OVR	OVR	9.9	1.0	207	155,000	50,600	104,400	
VMP-44-30	2/7/2012	1111	0.64	-0.23	OVR	OVR	9.9	2.0	233	98,700	57,000	41,700	
VMP-44-30	2/13/2012	1448	-0.51	-0.58	OVR	OVR	10.9	1.5	247	55,900	25,880	30,020	
VMP-44-30	2/14/2012	1624	-1.25	-1.28	77.1	OVR	11.1	1.1	219	39,900	31,000	8,900	
VMP-44-30	2/15/2012	1433	-0.57	-1.09	78.4	OVR	11.3	0.8	315	33,680	22,690	10,990	
VMP-44-30	2/22/2012	925	-0.57	- 0.55	14.8	OVR	10.2	4.3	220	18,420	9,970	8,450	
VMP-44-30	2/29/2012	1414	-0.20	0.00	13.2	OVR	11.8	0.9	268	12,540	6,260	6,280	
VMP-44-30	3/21/2012	836	-0.77	- 0.73	2.9	59.0	10.3	1.5	182	5,080	2,700	2,380	
VMP-44-30	4/18/2012	850	-1.13	-1.06	0.4	8.0	10.1	2.6	70.5	1,380	920	460	
VMP-44-30	5/16/2012	1334	-1.00	-0.98	0.1	2.0	10.5	3.4	42.5	401	220	181	
VMP-44-30	6/20/2012	1359	-0.72	-0.76	0.0	0.0	10.6	5.1	24.0	207	83.40	124	
VMP-44-30	7/18/2012	1430	0.00	0.00	0.0	0.0	8.4	9.8	30.4	380	67.70	312	
VMP-44-30	8/15/2012	1105	-0.11	-1.07	0.0	0.0	7.9	11.8	19.1	586	253	333	
VMP-44-30	9/19/2012	1513	-0.19	-1.23	0.0	0.0	6.1	14.7	13.4	46.7	15.5	31.2	
VMP-44-30	10/17/2012	958	-1.71	-1.58	0.0	0.0	5.1	16.5	7.0	35.9	22.3	13.6	
VMP-44-30	11/20/2012	914	-1.42	-1.47	0.0	0.0	4.5	17.6	9.2	52.6	6.7	45.9	
VMP-44-30	12/19/2012	848	-1.14	-0.99	0.0	0.0	4.7	16.8	9.7	69.2	30.6	38.6	
VMP-45-10	2/2/2012	1433	-0.30	-0.21	0.0	0.0	6.1	14.8	12.4	35.0	0.0	35.0	
VMP-45-10	2/3/2012	931	-0.19	-0.25	NM	NM	NM	NM	NM	NM	NM	NM	Tedlar overfilled and popped. Could not sample.
VMP-45-10	2/7/2012	1128	-0.15	-0.06	0.0	0.0	3.4	19.1	1.8	5.0	0.0	5.0	
VMP-45-10	2/15/2012	1444	-0.18	0.05	0.0	0.0	1.9	20.2	0.3	1.8	0.0	1.8	
VMP-45-10	2/22/2012	1424	0.00	- 0.04	0.0	0.0	1.5	20.5	0.4	0.0	0.0	0.0	
VMP-45-10	2/29/2012	903	-0.14	- 0.15	0.0	0.0	2.2	18.1	3.5	12.3	2.8	9.5	
VMP-45-10	3/21/2012	928	-0.16	- 0.11	0.0	0.0	0.9	20.2	0.2	0.0	0.0	0.0	
VMP-45-10	4/18/2012	929	-0.20	-0.16	0.0	0.0	0.8	20.2	0.2	2.6	0.0	2.6	
VMP-45-10	5/16/2012	1346	-0.21	-0.19	0.0	0.0	0.8	20.1	0.7	0.0	0.0	0.0	
VMP-45-10	6/20/2012	1054	-0.16	-0.18	0.0	0.0	0.8	20.5	0.4	2.3	0.0	2.3	
VMP-45-10	7/18/2012	1359	0.00	0.00	0.0	0.0	0.6	20.1	0.6	7.7	2.2	5.5	
VMP-45-10	8/15/2012	1125	-0.18	-0.18	0.0	0.0	0.7	20.4	0.5	2.3	0.0	2.3	
VMP-45-10	9/19/2012	1453	-0.12	-0.10	0.0	0.0	0.5	20.5	0.6	0.8	0.0	0.8	
VMP-45-10	10/17/2012	1010	-0.22	-0.21	0.0	0.0	0.3	20.6	0.3	0.9	0.0	0.9	
VMP-45-10	11/20/2012	1025	-0.18	-0.13	0.0	0.0	0.2	20.8	0.4	0.3	0.0	0.3	
VMP-45-10	12/19/2012	1057	-0.11	-0.06	0.0	0.0	0.2	20.8	0.2	0.5	0.0	0.5	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-45-20	2/2/2012	1437	-0.21	-0.55	63.2	OVR	13.6	0.7	385	32,400	18,200	14,200	
VMP-45-20	2/3/2012	936	-0.77	-0.78	34.9	OVR	13.5	0.7	326	24,900	14,100	10,800	
VMP-45-20	2/7/2012	1129	-0.34	-0.20	26.9	OVR	12.5	1.7	427	11,190	6,420	4,770	
VMP-45-20	2/15/2012	1445	-0.80	-0.38	9.3	OVR	8.4	5.4	566	3,750	530	3,220	
VMP-45-20	2/22/2012	1429	-0.15	- 0.15	4.7	95.0	7.6	6.0	475	2,240	174	2,066	
VMP-45-20	2/29/2012	908	-0.23	- 0.25	3.4	63.0	6.3	9.7	367	1,860	128	1,732	
VMP-45-20	3/21/2012	933	-0.25	0.00	1.4	29.0	7.0	8.7	250	1,260	100	1,160	
VMP-45-20	4/18/2012	933	-0.38	-0.01	0.4	9.0	4.8	14.9	111	515	0.0	515	
VMP-45-20	5/16/2012	1351	-0.36	-0.36	0.3	6.0	4.4	16.0	94.3	380	0.0	380	
VMP-45-20	6/20/2012	1055	-0.10	-0.25	0.0	0.0	4.0	16.9	41.1	215	0.0	215	
VMP-45-20	7/18/2012	1401	0.00	0.00	0.0	0.0	3.9	16.6	38.1	153	8.1	145	
VMP-45-20	8/15/2012	1130	-0.36	-0.33	0.0	0.0	3.4	17.4	27.2	67.4	9.2	58.2	
VMP-45-20	9/19/2012	1454	-0.25	-0.17	0.0	0.0	2.6	18.5	9.5	20.4	3.9	16.5	
VMP-45-20	10/17/2012	1011	-0.47	-0.42	0.0	0.0	2.5	18.6	4.7	19.6	3.9	15.7	
VMP-45-20	11/20/2012	1028	-0.41	-0.31	0.0	0.0	2.1	18.9	2.3	17.3	11.5	5.9	
VMP-45-20	12/19/2012	1059	-0.22	-0.19	0.0	0.0	2.4	18.6	1.9	11.8	7.20	4.6	
VMP-45-30	2/2/2012	1443	-0.21	-0.28	OVR	OVR	13.2	1.0	340	106,000	53,000	53,000	
VMP-45-30	2/3/2012	942	-0.20	-0.31	OVR	OVR	12.5	2.0	312	72,800	40,600	32,200	
VMP-45-30	2/7/2012	1130	-0.53	-0.13	OVR	OVR	13.1	1.3	395	56,800	28,760	28,040	
VMP-45-30	2/15/2012	1446	-0.38	-0.42	OVR	OVR	11.4	1.2	561	52,500	20,800	31,700	
VMP-45-30	2/22/2012	1434	-0.15	-0.10	86.6	OVR	10.2	1.2	616	31,180	11,790	19,390	
VMP-45-30	2/29/2012	913	-0.29	- 0.29	65.3	OVR	10.0	1.4	598	16,640	9,820	6,820	
VMP-45-30	3/21/2012	940	-0.33	- 0.25	33.4	OVR	12.3	0.0	789	12,680	3,560	9,120	
VMP-45-30	4/18/2012	937	-0.45	-0.38	7.3	OVR	9.8	4.7	639	3,570	200	3,370	
VMP-45-30	5/16/2012	1355	-0.42	-0.42	1.5	30.0	8.9	7.3	450	1,400	130	1,270	
VMP-45-30	6/20/2012	1056	-0.37	-0.41	0.3	7.0	8.7	7.8	209	277	53.5	224	
VMP-45-30	7/18/2012	1400	0.00	0.00	0.1	2.0	7.3	9.4	143	86.0	54.0	32.0	
VMP-45-30	8/15/2012	1135	-0.43	-0.38	0.0	1.0	7.0	12.6	60.0	71.0	35.2	35.8	
VMP-45-30	9/19/2012	1455	-0.33	-0.29	0.0	0.0	4.9	15.2	42.8	87.7	37.7	50.0	
VMP-45-30	10/17/2012	1012	-0.57	-0.51	0.0	0.0	4.2	16.4	22.5	54.9	6.6	48.3	
VMP-45-30	11/20/2012	1031	-0.50	-0.40	0.0	0.0	3.7	17.2	9.0	19.1	5.8	13.3	
VMP-45-30	12/19/2012	1100	-0.29	-0.19	0.0	0.0	3.7	17.3	10.1	20.9	4.0	16.9	
VMP-46-10	2/15/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-10	2/16/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-10	2/17/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-10	2/20/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-10	2/21/2012	958	-1.25	-0.78	1.0	20.0	1.0	20.6	146	1,379	37.3	1,342	
VMP-46-10	2/22/2012	936	0.12	0.11	0.6	12.0	0.2	20.8	45.4	1,036	298	738	
VMP-46-10	2/29/2012	901	-0.33	-0.38	0.3	6.0	2.6	18.0	93.9	744	58.6	685	
VMP-46-10	3/21/2012	900	-0.40	-0.39	0.0	0.0	1.8	19.3	0.5	18.3	4.6	13.7	
VMP-46-10	4/18/2012	829	-0.36	-0.27	0.0	1.0	1.5	19.2	0.8	115	78.0	37	
VMP-46-10	5/16/2012	900	-0.50	-0.52	0.0	0.0	1.0	20.0	0.3	1.5	0.0	1.5	
VMP-46-10	6/20/2012	840	-0.48	-0.45	0.0	0.0	0.6	20.3	0.4	0.0	0.0	0.0	
VMP-46-10	7/18/2012	919	-0.46	-0.37	0.0	0.0	0.7	20.2	0.7	1.9	0.0	1.9	
VMP-46-10	8/15/2012	836	-0.39	-0.31	0.0	0.0	0.5	20.7	0.9	4.8	0.0	4.8	
VMP-46-10	9/19/2012	1228	-0.33	-0.25	0.0	0.0	0.2	20.6	0.7	5.1	0.0	5.1	
VMP-46-10	10/17/2012	848	-0.40	-0.45	0.0	0.0	0.7	20.1	0.4	2.2	0.0	2.2	
VMP-46-10	11/20/2012	942	-0.53	-0.36	0.0	0.0	0.4	20.6	0.6	2.6	0.0	2.6	
VMP-46-10	12/19/2012	1021	-0.43	-0.36	0.0	0.0	0.2	20.7	0.3	0.3	0.0	0.3	

TABLE 9
SVE SYSTEM MONTHLY MONITORING - VMP SAMPLING DATA

Sample ID	Date	Initial Reading Time (24 Hour)	Vacuum/Pressure		Fixed Gases				Soil Vapor Concentrations				Comments
			Initial Reading (Inches of H2O)	Stabilized Reading (Inches of H2O)	CH4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH4 (ppmv)	PHC (ppmv)	
VMP-46-20	2/15/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-20	2/16/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-20	2/17/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-20	2/20/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-20	2/21/2012	959	-1.06	-1.09	OVR	OVR	7.1	2.6	78.6	1,000,000	811,000	189,000	
VMP-46-20	2/22/2012	937	0.19	0.17	OVR	OVR	7.7	1.2	64.3	923,000	374,000	549,000	
VMP-46-20	2/29/2012	902	-0.45	-0.51	OVR	OVR	7.4	1.2	67.7	1,000,000	405,000	595,000	
VMP-46-20	3/21/2012	900	-0.55	-0.53	OVR	OVR	7.3	0.6	66.1	1,000,000	438,000	562,000	
VMP-46-20	4/18/2012	829	-0.49	-0.38	OVR	OVR	6.4	1.9	70.0	775,000	359,000	416,000	
VMP-46-20	5/16/2012	901	-0.36	-0.74	OVR	OVR	8.0	1.0	82.1	510,000	241,000	269,000	
VMP-46-20	6/20/2012	841	0.02	-0.64	OVR	OVR	9.7	0.5	82.0	136,000	85,300	50,700	
VMP-46-20	7/18/2012	920	-0.64	-0.52	OVR	OVR	10.1	1.5	56.0	203,000	124,000	79,000	
VMP-46-20	8/15/2012	837	-0.55	-0.51	OVR	OVR	12.7	1.5	107	149,000	100,000	49,000	
VMP-46-20	9/19/2012	1230	-0.47	-2.22	OVR	OVR	13.6	1.7	148	94,500	89,700	4,800	
VMP-46-20	10/17/2012	849	-0.52	-0.63	OVR	OVR	12.9	1.1	124	168,000	111,000	57,000	
VMP-46-20	11/20/2012	946	-0.75	-0.51	OVR	OVR	12.8	1.4	326	85,700	56,000	29700	
VMP-46-20	12/19/2012	1022	-0.66	-0.52	57.2	OVR	12.7	1.4	190	70,600	60,000	10,600	
VMP-46-30	2/15/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-30	2/16/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-30	2/17/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-30	2/20/2012	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	Chip and seal mounded over well. Cannot sample.
VMP-46-30	2/21/2012	1000	-1.06	-1.06	OVR	OVR	7.5	2.4	77.6	906,000	747,000	159,000	
VMP-46-30	2/22/2012	937	0.17	0.17	OVR	OVR	8.0	1.4	64.3	1,000,000	1,000,000	0.0	
VMP-46-30	2/29/2012	903	-0.47	-0.50	OVR	OVR	7.5	1.4	69.3	1,000,000	533,000	467,000	
VMP-46-30	3/21/2012	900	-0.56	-0.54	OVR	OVR	6.9	0.6	71.1	1,000,000	1,000,000	0.0	
VMP-46-30	4/18/2012	830	-0.49	-0.39	OVR	OVR	6.2	1.2	71.5	1,000,000	448,000	552,000	
VMP-46-30	5/16/2012	902	-0.70	-0.76	OVR	OVR	6.4	0.5	83.1	1,000,000	610,000	390,000	
VMP-46-30	6/20/2012	842	-0.69	-0.65	OVR	OVR	6.3	1.6	106	565,000	305,000	260,000	
VMP-46-30	7/18/2012	921	-0.64	-0.13	OVR	OVR	6.2	1.8	55.4	1,000,000	283,000	717,000	
VMP-46-30	8/15/2012	837	-0.59	-0.53	OVR	OVR	7.8	1.8	121	392,000	225,000	167,000	
VMP-46-30	9/19/2012	1231	-0.51	-2.53	OVR	OVR	9.3	1.9	152	669,000	260,000	409,000	
VMP-46-30	10/17/2012	850	-0.56	-0.61	OVR	OVR	10.7	1.0	119	414,000	336,000	78,000	
VMP-46-30	11/20/2012	950	-0.76	-0.51	OVR	OVR	11.7	1.4	223	256,000	216,000	40000	
VMP-46-30	12/19/2012	1023	-0.68	-0.53	OVR	OVR	11.9	1.9	242	310,000	155,000	155000	

Notes:
1) NM = Not Measured, PID - Photo Ionization Detector; THC = Total Hydrocarbon Concentration; PHC = Petroleum Hydrocarbon Concentration; OVR = Over-range; ppmv = Parts Per Million By Volume.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Acetone			Allyl chloride (3-Chloropropene)			alpha-Chlorotoluene			Benzene			Bromodichloromethane		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	7	U		9.3	U		3.8	U		700			5	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	150	U		200	U		83	U		130			110	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	80	U		100	U		170	U		170			56	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	6.5	J		93	U		150	U		150			50	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	36	U		48	U		79	U		120			26	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	20	U		26	U		43	U		63			14	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	9.5	U		12	U		21	U		61			6.7	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	15	U		19	U		8	U		44			10	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	14	U		18	U		7.7	U		81			10	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.83			0.87	U		0.12	J		0.53			0.46	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.023			0.014	U		0.006	J	U	0.019			0.0016	J	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.027			0.02	U		0.0083	U		0.081			0.011	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.023			0.011	U		0.0047	U		0.14			0.0061	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.064		J	0.074	U	UJ	0.031	U	UJ	0.48		J	0.0048	J	J
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.058	J		0.12	U		0.19	U		0.64			0.063	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.26		J	0.22	U	UJ	0.36	U	UJ	3.2		J	0.12	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.62	J		1.1	U		0.46	U		8.4			0.6	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.044	J		0.024	U		0.01	U		0.67			0.013	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.12			0.024	U		0.01	U		1.5			0.013	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	1.2	U		1.6	U		2.6	U		4.4			0.84	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.44			0.034	U		0.014	U		0.34			0.018	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.063			0.012	U		0.0051	U		0.14			0.0066	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.085	J		0.48	U		0.2	U		1.9			0.26	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.9	J		1.5	U		0.64	U		1.5			0.82	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	4.4			0.79	U		0.33	U		1.7			0.42	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	1.1	U		1.5	U		0.61	U		1.4			0.79	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.3	J		2	U		0.82	U		1.9			1.1	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.15			0.038	U		0.016	J	U	0.058			0.02	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.19	J		0.4	U		0.16	U		4.9			0.21	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.1			0.019	U		0.008	J	U	0.78			0.01	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.17	J		0.35	U		0.14	U		4.1			0.19	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.041	J		0.16	U		0.067	U		0.52			0.087	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.062	J		0.17	U		0.07	U		3.4			0.09	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.046			0.018	U		0.0075	U		0.17			0.0097	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.065	J		0.34	U		0.14	U		4.7			0.18	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Bromoform			Bromomethane			1,3-Butadiene			Butane			2-Butanone		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	7.6	U		2.9	U		1.6	U		590			8.7	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	170	U		62	U		36	U		11000			190	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	350	U		33	U		18	U		8600			99	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	310	U		29	U		16	U		4000			88	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	39	U		15	U		8.4	U		2900			45	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	21	U		8	U		4.6	U		1800			24	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	10	U		3.9	U		2.2	U		1700			12	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	16	U		6	U		3.4	U		1500			18	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	15	U		5.8	U		3.3	U		3000			18	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.72	U		0.27	U		0.15	U		34			0.12	J	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.012	U		0.0045	U		0.0025	U		0.15			0.0039	J	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.017	U		0.0062	U		0.0036	U		0.59			0.0034	J	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0094	U		0.0036	U		0.002	U		0.2			0.0055	J	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.062	U	UJ	0.023	U	UJ	0.013	U	UJ	0.29		J	0.0095	J	J
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.39	U		0.036	U		0.021	U		11			0.015	J	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.72	U	UJ	0.068	U	UJ	0.039	U	UJ	6.9		J	0.14	J	J
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.92	U		3.5	U		0.2	U		27			1	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.02	U		0.076	U		0.0043	U		0.36			0.018	J	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.02	U		0.076	U		0.0043	U		0.3			0.089		
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	5.2	U		0.49	U		0.28	U		100			1.5	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.028	U		0.1	U		0.0059	U		1.2			0.29		
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.01	U		0.038	U		0.0022	U		0.32			0.017		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.39	U		0.15	U		0.084	U		50			0.45	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	1.3	U		4.8	U		0.27	U		45			1.4	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.65	U		2.4	U		0.14	U		32			0.21	J	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	1.2	U		0.46	U		0.26	U		22			1.4	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	1.6	U		0.62	U		0.35	U		31			1.9	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.031	U		0.014	J		0.0067	U		1.8			0.095		
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.33	U		0.13	J		0.07	U		22			0.1	J	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.016	U		0.06	J	U	0.0034	U		0.4			0.077		
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.29	U		0.1	J		0.062	U		12			0.12	J	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.13	U		0.05	U		0.029	U		0.28			0.15	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.14	U		0.052	U		0.03	U		16			0.015	J	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.015	U		0.056	U		0.0023	J		0.26			0.01	J	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.28	U		0.1	U		0.06	U		19			0.32	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	2.3	U		4.6	U		3.4	U		6.3	U		7.8	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	200	U		100	U		74	U		140	U		170	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	26	U		53	U		39	U		72	U		89	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	23	U		12	J		34	U		63	U		79	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	12	U		24	U		18	U		32	U		40	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	6.4	U		13	U		9.5	U		18	U		22	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	3.1	U		6.3	U		4.6	U		8.6	U		11	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	4.8	U		9.8	U		7.2	U		13	U		16	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	4.6	U		9.3	U		6.8	U		13	U		16	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.56	J		0.44	U		0.32	U		0.59	U		0.73	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.014	U		0.0072	U		0.0053	U		0.0098	U		0.012	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.02	U		0.01	U		0.0074	U		0.014	U		0.017	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.011	U		0.0058	U		0.0042	U		0.0078	U		0.0096	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.074	U	UJ	0.037	U	UJ	0.027	U	UJ	0.051	U	UJ	0.063	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.029	U		0.059	U		0.043	U		0.08	U		0.099	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.054	U	UJ	0.11	U	UJ	0.08	U	UJ	0.15	U	UJ	0.18	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.35	J		0.56	U		0.41	U		0.76	U		0.94	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.024	J	U	0.012	U		0.009	U		0.017	U		0.021	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.024	J	U	0.012	U		0.009	U		0.017	U		0.021	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.39	U		0.48	J		0.58	U		1.1	U		1.3	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.033	U		0.017	U		0.012	U		0.023	U		0.028	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.012	J	U	0.0062	U		0.0045	U		0.0083	U		0.01	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.12	U		0.24	U		0.18	U		0.32	U		0.4	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.76	J		0.77	U		0.57	U		1	U		1.3	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	1			0.4	U		0.29	U		0.54	U		0.66	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.37	U		0.74	U		0.54	U		1	U		1.2	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.5	U		1	U		0.73	U		1.4	U		1.7	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.015	J		0.019	U		0.014	U		0.026	U		0.032	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.4	U		0.2	U		0.15	U		0.27	U		0.34	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.019	J	U	0.0098	U		0.0072	U		0.013	U		0.016	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.35	U		0.18	U		0.13	U		0.24	U		0.3	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.04	U		0.081	U		0.06	U		0.11	U		0.14	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.042	U		0.085	U		0.062	U		0.12	U		0.14	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.018	U		0.0092	U		0.0067	U		0.012	U		0.015	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.084	U		0.17	U		0.12	U		0.23	U		0.28	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Chloroform			Chloromethane			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	3.6	U		6.1	U		30			5.7	U		4.4	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	79	U		130	U		520			120	U		97	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	41	U		69	U		570			64	U		50	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	36	U		62	U		660			57	U		45	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	19	U		32	U		410			29	U		23	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	10	U		17	U		220			16	U		12	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	4.9	U		8.3	U		190			7.7	U		6	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	7.6	U		13	U		180			12	U		9.3	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	7.2	U		12	U		290			11	U		8.9	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.34	U		0.57	U		2.8			0.12	J		0.1	J	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0056	U		0.0095	U		0.0093			0.0088	J	U	0.0069	J	U
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0079	U		0.013	U		0.078			0.012	U		0.0097	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0045	U		0.0076	U		0.038			0.007	U		0.0055	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.029	U	UJ	0.049	U	UJ	0.013	J	J	0.046	U	UJ	0.036	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.046	U		0.077	U		1.1			0.072	U		0.056	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.085	U	UJ	0.14	U		3.5		J	0.13	U	UJ	0.1	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.44	U		1.8	U		22			0.69	U		0.54	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.0096	U		0.04	U		0.25			0.015	U		0.012	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.0096	U		0.04	U		0.1			0.015	U		0.012	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.86			1	U		13			0.96	U		0.75	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.013	U		0.055	U		0.21			0.02	U		0.016	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0048	U		0.02	U		0.1			0.0075	U		0.0059	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.19	U		0.32	U		3.6			0.29	U		0.23	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.6	U		2.5	U		3.1			0.94	U		0.74	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.31	U		1.3	U		3			0.48	U		0.38	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.58	U		0.97	U		2.2			0.91	U		0.71	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.78	U		1.3	U		2.9			1.2	U		0.96	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.015	U		0.062	U		0.13			0.023	U		0.018	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.16	U		0.66	U		1.9			0.24	U		0.19	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.0076	U		0.032	U		0.11			0.012	U		0.0093	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.14	U		0.58	U		1.4			0.22	U		0.17	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.063	U		0.11	U		0.08			0.1	U		0.078	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.066	U		0.11	U		1.7			0.1	U		0.081	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0071	U		0.03	U		0.034			0.011	U		0.0087	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.13	U		0.22	U		2.2			0.21	U		0.16	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,1-Dichloroethane			1,2-Dichloroethane		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	4.4	U		4.4	U		3.6	U		3	U		3	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	97	U		97	U		80	U		65	U		65	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	50	U		50	U		42	U		34	U		34	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	45	U		45	U		37	U		30	U		30	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	23	U		23	U		19	U		15	U		15	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	12	U		12	U		10	U		8.3	U		8.3	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	6	U		6	U		5	U		4.1	U		4.1	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	9.3	U		9.3	U		7.7	U		6.3	U		6.3	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	8.9	U		8.9	U		7.3	U		6	U		6	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.11	J		0.14	J		0.34	U		0.28	U		0.28	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0069	J	U	0.0069	J	U	0.0013	J		0.0046	U		0.0046	J	U
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0097	U		0.0097	J	U	0.008	U		0.0065	U		0.0065	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0055	U		0.0055	J	U	0.0045	U		0.0037	U		0.0037	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.036	U	UJ	0.036	U	UJ	0.029	U	UJ	0.024	U	UJ	0.024	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.056	U		0.056	U		0.046	U		0.038	U		0.038	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.1	U	UJ	0.1	U	UJ	0.086	U	UJ	0.071	U	UJ	0.071	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.54	U		0.54	U		0.44	U		0.36	U		0.36	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.012	U		0.012	U		0.0097	U		0.0079	U		0.0079	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.012	U		0.012	U		0.0097	U		0.0079	U		0.0079	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.75	U		0.75	U		0.62	U		0.51	U		0.51	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.016	U		0.016	U		0.013	U		0.011	U		0.011	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0059	U		0.0059	J	U	0.0048	U		0.004	U		0.004	J	U
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.23	U		0.23	U		0.19	U		0.15	U		0.15	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.74	U		0.74	U		0.61	U		0.5	U		0.5	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.38	U		0.38	U		0.31	U		0.26	U		0.25	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.71	U		0.71	U		0.58	U		0.48	U		0.48	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.96	U		0.96	U		0.79	U		0.64	U		0.64	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.018	U		0.018	J	U	0.015	U		0.012	U		0.012	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.19	U		0.19	U		0.16	U		0.13	U		0.13	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.0093	J	U	0.0093	J	U	0.0077	U		0.0063	U		0.0063	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.17	U		0.17	U		0.14	U		0.11	U		0.11	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.078	U		0.078	U		0.064	U		0.052	U		0.052	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.081	U		0.081	U		0.067	U		0.055	U		0.055	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0087	U		0.0087	J	U	0.0072	U		0.0059	U		0.0059	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.16	U		0.16	U		0.13	U		0.11	U		0.11	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	1,1-Dichloroethene			cis-1,2-Dichloroethene			trans-1,2-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	2.9	U		2.9	U		2.9	U		0.91	J		3.4	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	64	U		64	U		64	U		56	U		74	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	33	U		33	U		33	U		8.2	J		39	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	30	U		30	U		30	U		7.8	J		34	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	15	U		15	U		15	U		3.2	J		18	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	8.2	U		8.2	U		8.2	U		7.2	U		9.5	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	4	U		4	U		4	U		3.5	U		4.6	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	6.2	U		6.2	U		6.2	U		5.4	U		7.2	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	5.9	U		5.9	U		5.9	U		1.3	J		6.9	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.28	U		0.28	U		0.28	U		0.26			0.32	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0046	U		0.0046	U		0.0046	U		0.004	J	U	0.0053	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0064	U		0.0064	U		0.0064	U		0.0056	J	U	0.0074	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0036	U		0.0036	U		0.0036	U		0.0051			0.0042	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.024	U	UJ	0.024	U	UJ	0.024	U	UJ	0.0097	J	J	0.027	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.037	U		0.037	U		0.037	U		0.011	J		0.043	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.069	U	UJ	0.069	U	UJ	0.069	U	UJ	0.061	U	UJ	0.081	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.35	U		0.35	U		0.35	U		3.1	U		0.41	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.0078	U		0.0078	U		0.0078	U		0.068	J	U	0.009	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.0078	U		0.0078	U		0.0078	U		0.068	J	U	0.009	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.5	U		0.5	U		0.5	U		0.42			0.58	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.011	U		0.011	U		0.011	U		0.0038	J		0.012	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0039	U		0.0039	U		0.0039	U		0.0021	J		0.0045	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.15	U		0.15	U		0.15	U		0.13	U		0.18	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.49	U		0.49	U		0.49	U		0.34	J		0.57	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.25	U		0.25	U		0.25	U		0.23	J		0.29	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.47	U		0.47	U		0.47	U		0.41	U		0.54	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.63	U		0.63	U		0.63	U		0.55	U		0.74	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.012	U		0.012	U		0.012	U		0.1	U		0.014	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.13	U		0.13	U		0.13	U		1.1	U		0.15	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.0062	U		0.0062	U		0.0062	U		0.054	J	U	0.0072	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.11	U		0.11	U		0.11	U		0.98	U		0.13	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.051	U		0.051	U		0.051	U		0.045	U		0.06	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.054	U		0.054	U		0.054	U		0.047	U		0.062	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0058	U		0.0058	U		0.0058	U		0.05	J	U	0.0067	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.11	U		0.11	U		0.11	U		0.018	J		0.12	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	3.4	U		3.4	U		11	U		5.6	U		0.79	J	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	73	U		73	U		230	U		120	U		70	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	38	U		38	U		120	U		63	U		6.4	J	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	34	U		34	U		110	U		56	U		16	J	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	17	U		17	U		55	U		29	U		5.4	J	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	9.3	U		9.3	U		30	U		16	U		14		
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	4.6	U		4.6	U		14	U		7.6	U		18		
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	7	U		7	U		22	U		12	U		11		
SVE Refinery Header	MainHeader-121912	12/19/2012	6.7	U		6.7	U		21	U		11	U		17		
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.32	U		0.32	U		1	U		0.28	J		0.15	J	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0052	U		0.0052	J	U	0.016	U		0.016			0.0025	J	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0073	U		0.0073	U		0.023	U		0.019			0.011		
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0042	U		0.0042	U		0.013	U		0.023			0.004	J	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.027	U	UJ	0.027	U	UJ	0.086	U	UJ	0.084		J	0.026	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.042	U		0.042	U		0.13	U		0.04	J		0.044		
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.079	U	UJ	0.079	U	UJ	0.25	U	UJ	0.56		J	0.21		J
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.41	U		0.41	U		1.3	U		0.67	U		3.3		
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.0089	U		0.0089	U		0.028	U		0.045			0.015		
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.0089	U		0.0089	U		0.028	U		0.1			0.0076	J	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.57	U		0.57	U		1.8	U		0.94	U		1.1		
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.012	U		0.012	U		0.039	U		0.05			0.016		
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0044	U		0.0044	U		0.014	U		0.017		J	0.16		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.17	U		0.17	U		0.55	U		0.29	U		0.17		
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.56	U		0.56	U		1.8	U		0.93	U	UJ	0.27	J	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.28	U		0.28	U		0.91	U		0.18	J	J	0.42		
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.54	U		0.54	U		1.7	U		0.89	U		0.51	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.72	U		0.72	U		2.3	U		1.2	U		0.18	J	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.014	U		0.014	J	U	0.044	U		0.015	J		0.014		
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.14	U		0.14	U		0.46	U		0.24	U		0.049	J	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.007	U		0.007	U		0.022	U		0.013			0.12		
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.13	U		0.13	U		0.41	U		0.21	U		0.15		
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.059	U		0.059	U		0.19	U		0.098	U		0.052	J	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.061	U		0.061	U		0.19	U		0.1	J	U	0.12		
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0066	U		0.0066	U		0.021	U		0.027			0.019		
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.12	U		0.12	U		0.39	U		0.2	U		0.21		

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	4-Ethyltoluene			Freon 113			Freon 114			Heptane			Hexachlorobutadiene		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	3.6	U		5.7	U		5.2	U		19			32	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	79	U		120	U		110	U		350			690	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	41	U		64	U		59	U		370			360	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	7.7	J		57	U		52	U		500			320	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	19	U		29	U		27	U		240			160	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	2.6	J		16	U		14	U		200			88	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	2.7	J		7.7	U		7	U		190			43	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	7.6	U		12	U		11	U		250			66	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	7.3	U		11	U		10	U		330			63	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.34	U		0.53	U		0.48	U		3			3	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0056	J	U	0.0088	U		0.008	U		0.0094			0.049	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0036	J		0.012	U		0.011	U		0.067			0.069	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0045	J	U	0.007	U		0.0064	U		0.029			0.039	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.029	U	UJ	0.046	U	UJ	0.042	U	UJ	0.008	J	J	0.25	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.0064	J		0.072	U		0.065	U		0.91			0.4	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.034	J	J	0.13	U	UJ	0.12	U	UJ	1.5		J	0.75	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.27	J		0.68	U		0.62	U		27			3.8	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.0081	J		0.015	U		0.014	U		0.18			0.084	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.0025	J		0.015	U		0.014	U		0.12			0.084	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.1	J		0.96	U		0.88	U		11			5.4	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.0055	J		0.02	U		0.019	U		0.32			0.11	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.094		J	0.0075	U		0.0068	U		0.15			0.042	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.19	U		0.29	U		0.27	U		3.9			1.6	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.6	U		0.94	U		0.86	U		4			5.2	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.087	J		0.48	U		0.44	U		3.4			2.7	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.58	U		0.9	U		0.82	U		2.2			5	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.78	U		1.2	U		1.1	U		2.9			6.8	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.0061	J		0.023	U		0.021	U		0.14			0.13	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.16	U		0.24	U		0.22	U		2.3			1.4	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.022			0.012	U		0.011	U		0.22			0.066	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.14	U		0.22	U		0.2	U		2			1.2	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.064	U		0.099	U		0.09	U		0.14			0.55	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.066	U		0.1	U		0.094	U		2.1			0.58	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.01			0.011	U		0.01	U		0.044			0.062	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.045	J		0.21	U		0.19	U		2.4			1.2	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	140			12	U		1400			3.6	U		3	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	2200			260	U		15000			79	U		66	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	3600			140	U		19000			41	U		34	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	2000			120	U		10000			37	U		30	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	1100			62	U		6100			19	U		16	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	880			34	U		3500			10	U		8.4	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	760			16	U		2900			1.1	J		4.1	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	810			25	U		2100			7.6	U		6.4	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	1300			24	U		4100			7.3	U		6.1	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	11			1.1	U		61			0.34	U		0.28	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.033			0.019	U		0.21			0.0011	J		0.0051		
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.19			0.026	U		0.81			0.0026	J		0.015		
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.06			0.015	U		0.35			0.0016	J		0.013		
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.043		J	0.097	U	UJ	0.4		J	0.029	U	UJ	0.024	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	6			0.15	U		27			0.046	U		0.038	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	5.8		J	0.29	U	UJ	15		J	0.021	J	J	0.072	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	66			1.5	U		85			0.22	J		0.37	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.43			0.032	U		1.3			0.0024	J		0.022		
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.31			0.012	J		0.74			0.011			0.054		
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	36			2	U		240			0.081	J		0.51	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.65			0.046			2.4			0.0036	J		0.032		
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.23			0.016	U		0.54			0.033			0.041		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	15			0.62	U		74			0.19	U		0.16	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	14			2	U		65			0.6	U		0.5	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	14			1	U		56			0.31	U		0.26	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	10			1.9	U		43			0.58	U		0.48	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	13			2.6	U		55			0.78	U		0.65	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.84			0.012	J		3			0.015	U		0.012	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	12			0.52	U		35			0.16	U		0.13	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.46			0.013	J		0.74			0.0094			0.0018	J	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	7.6			0.46	U		21			0.14	U		0.12	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.29			0.21	U		0.52			0.064	U		0.053	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	7.9			0.22	U		27			0.014	J		0.055	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.14			0.024	U		0.41			0.0081			0.0061		
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	10			0.44	U	UJ	34			0.13	U		0.11	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			n-Propylbenzene			Styrene			1,1,2,2-Tetrachloroethane		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	2.7	U		7.3	U		3.6	U		3.2	U		5.1	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	58	U		160	U		79	U		68	U		110	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	30	U		82	U		41	U		36	U		58	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	27	U		73	U		37	U		32	U		51	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	14	U		38	U		19	U		16	U		26	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	7.4	U		1.3	J		10	U		8.8	U		14	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	3.6	U		9.9	U		1.5	J		4.3	U		6.9	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	5.6	U		15	U		7.6	U		6.6	U		11	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	0.67	J		14	U		7.3	U		6.3	U		10	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.25	U		0.24	J		0.048	J		0.3	U		0.48	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0041	U		0.0031	J		0.0056	J	U	0.0049	U		0.0079	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0058	U		0.002	J		0.0032	J		0.0068	U		0.011	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0033	U		0.0046	J		0.0014	J		0.0039	U		0.0063	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.021	U	UJ	0.013	J	J	0.029	U	UJ	0.025	U	UJ	0.041	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.034	U		0.0076	J		0.046	U		0.04	U		0.064	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.063	U	UJ	0.099	J	J	0.019	J	J	0.074	U	UJ	0.12	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.32	U		0.23	J		0.37	J		0.12	J		0.61	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.0071	U		0.01	J		0.0016	J		0.0083	U		0.013	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.0071	U		0.022			0.0096	U		0.0083	U		0.013	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.45	U		1.2	U		0.62	U		0.53	U		0.86	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.0097	U		0.0098	J		0.0026	J		0.011	U		0.018	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0035	U		0.0044	J		0.034			0.0042	U		0.0067	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.14	U		0.38	U		0.19	U		0.16	U		0.26	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.44	U		0.26	J		0.6	U		0.12	J		0.84	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.23	U		0.18	J		0.046	J		0.094	J		0.43	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.42	U		1.2	U		0.58	U		0.5	U		0.81	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.58	U		1.6	U		0.78	U		0.68	U		1.1	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.011	U		0.03	U		0.015	J	U	0.013	U		0.021	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.12	U		0.31	U		0.16	U		0.14	U		0.22	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.0056	U		0.015	U		0.0066	J		0.0066	U		0.011	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.1	U		0.28	U		0.14	U		0.12	U		0.19	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.047	U		0.13	U		0.064	U		0.055	U		0.089	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.049	U		0.0084	J		0.066	U		0.058	U		0.093	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0052	U		0.0076	J		0.0037	J		0.0062	U		0.01	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.097	U		0.15	J		0.13	U		0.12	U		0.18	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	0.81	J		2.2	U		1.1	J		22	U		4	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	110	U		47	U		140			480	U		88	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	57	U		25	U		40			250	U		46	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	50	U		22	U		46			220	U		41	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	14	J		11	U		14	J		110	U		21	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	14	U		6.1	U		46			61	U		11	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	0.96	J		3	U		60			30	U		5.5	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	10	U		4.6	U		52			46	U		8.5	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	1.1	J		4.4	U		76			44	U		8.1	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.47	U		0.2	U		0.57			0.4	J		0.38	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0078	U		0.0034	U		0.0047			0.034	J	U	0.0063	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.011	U		0.0047	U		0.014			0.048	U		0.0088	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.0062	U		0.0027	U		0.006			0.027	U		0.005	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.04	U	UJ	0.018	U	UJ	0.0073	J	J	0.18	U	UJ	0.032	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.063	U		0.028	U		0.13			0.28	U		0.051	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.12	U	UJ	0.052	U	UJ	0.22		J	0.52	U	UJ	0.095	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.61	U		0.26	U		7			2.6	U		0.49	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.013	U		0.0058	U		0.057			0.058	U		0.011	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.013	U		0.0058	U		0.022			0.058	U		0.011	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.85	U		0.37	U		1.9			3.7	U		0.68	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.018	U		0.0079	U		0.036			0.08	U		0.015	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0066	U		0.0029	U		0.19			0.029	J	U	0.0053	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.26	U		0.11	U		0.84			1.1	U		0.21	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.83	U		0.36	U		0.92			3.6	U		0.67	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.43	U		0.18	U		2.7			1.9	U		0.34	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.8	U		0.35	U		0.4	J		3.5	U		0.64	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	1.1	U		0.47	U		0.79			4.7	U		0.87	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.02	U		0.0089	U		0.025			0.09	U		0.016	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.22	U		0.094	U		0.3			0.95	U		0.17	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.01	U		0.0046	U		0.18			0.046	U		0.0085	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.19	U		0.083	U		0.51			0.84	U		0.15	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.088	U		0.038	U		0.15			0.38	U		0.071	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.092	U		0.04	U		0.41			0.4	U		0.074	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0099	U		0.0043	U		0.026			0.043	U		0.0079	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.18	U		0.08	U		0.63			0.8	U		0.15	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	4	U		0.37	J		4.2	U		3.6	U		3.6	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	88	U		86	U		90	U		79	U		79	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	46	U		45	U		47	U		160	U		41	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	41	U		40	U		6.8	J		13	J		37	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	21	U		20	U		21	U		19	U		19	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	11	U		11	U		12	U		1.8	J		10	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	5.5	U		5.4	U		5.6	U		1.7	J		0.92	J	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	8.5	U		16			8.7	U		7.6	U		7.6	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	8.1	U		8	U		8.3	U		7.3	U		7.3	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.38	U		0.37	U		0.39	U		0.1	J		0.057	J	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.0063	U		0.0062	J	U	0.0065	U		0.0056	J	U	0.0056	J	U
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.0088	U		0.0086	U		0.009	U		0.0051	J		0.0079	J	U
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.005	U		0.0049	J	U	0.0051	U		0.0025	J		0.0045	J	U
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.032	U	UJ	0.032	U	UJ	0.033	U	UJ	0.029	U	UJ	0.029	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.051	U		0.05	U		0.052	U		0.18	U		0.046	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.095	U	UJ	0.094	U	UJ	0.098	U	UJ	0.019	J	J	0.015	J	J
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.49	U		0.48	U		0.5	U		0.36	J		0.25	J	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.011	U		0.01	U		0.011	U		0.016			0.0056	J	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.011	U		0.01	U		0.011	U		0.0096	U		0.0096	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.68	U		1			0.47	J		2.5	U		0.62	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.015	U		0.014	U		0.015	U		0.0056	J		0.0019	J	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.0053	U		0.009			0.0055	U		0.084			0.032		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.21	U		0.2	U		0.21	U		0.19	U		0.19	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.67	U		0.66	U		0.69	U		0.6	U		0.6	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.34	U		0.34	U		0.35	U		0.31	U		0.31	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.64	U		0.63	U		0.66	U		0.58	U		0.58	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.87	U		0.86	U		0.9	U		0.78	U		0.78	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.016	U		0.016	U		0.017	U		0.005	J		0.015	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.17	U		0.17	U		0.18	U		0.16	U		0.16	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.0085	U		0.0084	U		0.0087	U		0.0086			0.009		
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.15	U		0.15	U		0.16	U		0.14	U		0.14	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.071	U		0.07	U		0.073	U		0.064	U		0.064	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.074	U		0.072	U		0.076	U		0.066	U		0.066	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.0079	U		0.0078	U		0.0082	U		0.0089			0.004	J	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.15	U		0.14	U		0.15	U		0.028	J		0.13	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	2,2,4-Trimethylpentane			Vinyl chloride			m,p-Xylene			o-Xylenes			TPH (C2-C10)		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (mg/m3)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	120			1.9	U		0.97	J		3.2	U		12000		
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	1600			41	U		70	U		70	U				
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	1900			21	U		9.5	J		36	U				
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	2300			19	U		36			8.3	J				
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	1300			9.8	U		9.2	J		16	U		70000		
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	740			5.3	U		26			4.8	J		34000		
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	700			2.6	U		34			6			32000		
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	1000			4	U		24			4.6	J		30000		J
SVE Refinery Header	MainHeader-121912	12/19/2012	1500			3.8	U		32			6.9			54000		J
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	8.2			0.18	U		0.29	J		0.072	J				
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.024			0.0029	U		0.0062			0.0018	J				
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.43			0.0041	U		0.026			0.0051	J				
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.12			0.0023	U		0.0086			0.0018	J				
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.025	J	J	0.015	U	UJ	0.026	U	UJ	0.026	U	UJ			
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	3.2			0.024	U		0.072			0.013	J				
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	23		J	0.045	U	UJ	0.42		J	0.097		J			
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	83			0.23	U		6			1			2700		
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	1.1			0.005	U		0.065			0.017			38		
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.36			0.005	U		0.013			0.0034	J		22		
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	41			0.32	U		1.7			0.19	J				
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.82			0.0068	U		0.031			0.0068	J		49		
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.4			0.0025	U		0.4			0.11			20		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	14			0.098	U		0.31			0.052	J		780		
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	13			0.31	U		0.47	J		0.53	U		740		
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	13			0.16	U		0.73			0.2	J		690		
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	11			0.3	U		0.15	J		0.51	U		680		
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	13			0.41	U		0.32	J		0.074	J		610		
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.92			0.0077	U		0.033			0.0098	J		26		
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	11			0.082	U		0.11	J		0.14	U		310		J
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.63			0.004	U		0.35			0.096			19		
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	8.8			0.072	U		0.33			0.064	J		230		
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.38			0.033	U		0.11			0.022	J		13		
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	9.4			0.034	U		0.26			0.052	J		310		
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.18			0.0037	U		0.052			0.014			6		
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	11			0.069	U		0.47			0.11	J		390		

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	TPH (Gasoline Range)			BTU			Butane			Isopentane			Acetylene		
			Result (mg/m3)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012							0.033			0.069			0.003	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	99000						0.61			0.6			0.0016	U	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	97000						0.45			0.57			0.002	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	91000						0.23			0.32			0.0018	U	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012							0.2			0.3			0.0019	U	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012							0.1			0.13			0.0021	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012							0.095			0.12			0.002	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012							0.084			0.1			0.0031	U	
SVE Refinery Header	MainHeader-121912	12/19/2012							0.18			0.22			0.003	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	480						0.0018			0.0023			0.0014	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	1.9						0.0023	U		0.0023	U		0.0023	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	15						0.0016	U		0.000034	J		0.0016	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	7.2						0.0014	U		0.0014	U		0.0014	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	5.2		J				0.0091	U	UJ	0.0091	U	UJ	0.0091	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	180						0.00054	J		0.00071	J		0.0019	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	430		J				0.00035	J	J	0.00038	J		0.0035	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012							0.0013	J		0.0031			0.0018	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012							0.002	U		0.000046	J		0.002	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012							0.002	U		0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	1700						0.005			0.0064			0.0019	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012							0.000068	J		0.000094	J		0.002	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012							0.0034	U		0.0034	U		0.0034	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012				1.9	U		0.002			0.0024			0.0019	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012							0.0019	J		0.0022			0.002	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012							0.0013	J		0.0018	J		0.003	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012							0.0013	J		0.0017	J		0.0028	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012							0.0016	J		0.0021	J		0.0032	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012							0.000088	J		0.0001	J		0.003	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012							0.00097	J		0.0012	J		0.0032	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012							0.0031	U		0.0031	U		0.0031	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012							0.00051	J		0.00068	J		0.0028	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012							0.0026	U		0.0026	U		0.0026	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012							0.00078	J		0.001	J		0.0027	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012							0.0029	U		0.0029	U		0.0029	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012							0.00092	J		0.0012	J		0.0027	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	C6+			Carbon Dioxide			Carbon Monoxide			Ethane			Ethene		
			Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	0.11			5.9			0.03	U		0.00019	J		0.003	U	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	0.79			8.1			0.016	U		0.0032			0.000039	J	
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	0.9			7			0.02	U		0.0024			0.002	U	
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	0.7			7.9			0.018	U		0.0016	J		0.000072	J	
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	0.56			8.1			0.019	U		0.0018	J		0.00011	J	
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	0.26			2.2			0.021	U		0.0006	J		0.0021	U	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	0.26			2.2			0.02	U		0.0006	J		0.002	U	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	0.31			3.1			0.031	U		0.00044	J		0.0031	U	
SVE Refinery Header	MainHeader-121912	12/19/2012	0.56			7			0.03	U		0.00089	J		0.003	U	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.0034	J		1			0.014	U		0.0014	U		0.000058	J	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.023	U		0.27			0.023	U		0.0023	U		0.0023	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.016	U		0.56			0.016	U		0.0016	U		0.0016	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.014	U		0.57			0.014	U		0.0014	U		0.0014	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.091	U	UJ	0.45		J	0.091	U	UJ	0.0091	U	UJ	0.0091	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.00096	J		1.1			0.019	U		0.0019	U		0.0019	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.0025	J	J	1		J	0.035	U	UJ	0.0035	U	UJ	0.0035	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.021			0.94			0.018	U		0.0018	U		0.0018	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.02	U		0.25			0.02	U		0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.02	U		0.64			0.02	U		0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.015	J		0.27			0.019	U		0.000048	J		0.0019	U	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.00081	J		0.84			0.02	U		0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.034	J	U	0.77			0.034	U		0.0034	U		0.0034	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.0046	J		0.9			0.019	U		0.0019	U		0.0019	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.0044	J		0.85			0.02	U		0.002	U		0.0001	J	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.0037	J		0.94			0.03	U		0.003	U		0.000075	J	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.0039	J		1.2			0.028	U		0.0028	U		0.0001	J	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.0047	J		1.2			0.032	U		0.0032	U		0.00015	J	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012		J		1.2			0.03	U		0.003	U		0.003	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.0024	J		0.65			0.032	U		0.0032	U		0.0032	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.031	U		0.86			0.031	U		0.0031	U		0.0031	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.0017	J		0.74			0.028	U		0.0028	U		0.0028	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.026	U		0.78			0.026	U		0.0026	U		0.0026	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.0027	J		0.64			0.027	U		0.0027	U		0.0027	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.029	U		0.78			0.029	U		0.0029	U		0.0029	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.0028	J		0.69			0.027	U		0.0027	U		0.0027	U	

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Hydrogen			Isobutane			Methane			Neopentane			Nitrogen		
			Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	0.03	U		0.0037			3.1			0.0002	J		77		
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	0.016	U		0.069			12			0.0021			71		
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	0.02	U		0.059			8.5			0.0019	J		74		
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	0.018	U		0.035			6.9			0.0012	J		78		
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	0.019	U		0.034			6			0.0012	J		78		
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	0.021	U		0.013			2.1			0.00065	J		78		
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	0.02	U		0.012			2			0.00042	J		78		
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	0.031	U		0.0096			1.5			0.00036	J		78		
SVE Refinery Header	MainHeader-121912	12/19/2012	0.03	U		0.02			3.2			0.00079	J		78		
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	0.014	U		0.00022	J		0.034			0.0014	U		79		
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	0.023	U		0.0023	U		0.00018	J		0.0023	U		80		
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	0.016	U		0.0016	U		0.00075			0.0016	U		78		
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	0.014	U		0.0014	U		0.00045			0.0014	U		78		
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	0.091	U	UJ	0.0091	U	UJ	0.00048	J	J	0.0091	U	UJ	84		J
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	0.019	U		0.000068	J		0.01			0.0019	U		79		
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	0.035	U	UJ	0.0035	U	UJ	0.0013		J	0.0035	U	UJ	80		J
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	0.018	U		0.00011	J		0.0037			0.0018	U		79		
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	0.02	U		0.002	U		0.00083			0.002	U		84		
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	0.02	U		0.002	U		0.00031			0.002	U		79		
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	0.019	U		0.0009	J		0.21			0.0019	U		78		
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	0.02	U		0.002	U		0.0016			0.002	U		79		
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	0.034	U		0.0034	U		0.00042			0.0034	U		79		
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	0.019	U		0.00025	J		0.059			0.0019	U		80		
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	0.02	U		0.00024	J		0.057			0.002	U		79		
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	0.03	U		0.00016	J		0.035			0.003	U		81		
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	0.028	U		0.00015	J		0.037			0.0028	U		80		
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	0.032	U		0.00019	J		0.044			0.0032	U		80		
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	0.03	U		0.003	U		0.0022			0.003	U		79		
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	0.032	U		0.00012	J		0.023			0.0032	U		79		
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	0.031	U		0.0031	U		0.00044			0.0031	U		79		
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	0.028	U		0.0028	U		0.012			0.0028	U		79		
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	0.026	U		0.0026	U		0.00031			0.0026	U		79		
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	0.027	U		0.0001	J		0.019			0.0027	U		80		
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	0.029	U		0.0029	U		0.00037			0.0029	U		79		
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	0.027	U		0.00011	J		0.023			0.0027	U		79		

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TABLE 10
SVE SYSTEM HEADER AND EXHAUST ANALYTICAL DATA

Location	Sample ID	Sample Date	Oxygen			Pentane			Propane		
			Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
SVE Public Works Header	PWHeader-121912	12/19/2012	14			0.029			0.00013	J	
SVE Refinery Header	HEADER-SVE-020912	2/9/2012	6.9			0.19			0.0038		
SVE Refinery Header	HEADER-SVE-021712	2/17/2012	8.1			0.22			0.0034		
SVE Refinery Header	HEADER-SVE-030112	3/1/2012	6			0.1			0.002		
SVE Refinery Header	HEADER-SVE-030812	3/8/2012	6.8			0.091			0.0021		
SVE Refinery Header	HEADER-SVE-032312	3/23/2012	17			0.056			0.00078	J	
SVE Refinery Header	HEADER-SVE-032812	3/28/2012	17			0.04			0.00075	J	
SVE Refinery Header	MainHeader-SVE-113012	11/30/2012	17			0.036			0.00063	J	
SVE Refinery Header	MainHeader-121912	12/19/2012	11			0.078			0.0013	J	
SVE RTO Exhaust	EXH-SVE-013112	1/31/2012	20			0.00076	J		0.0014	U	
SVE RTO Exhaust	EXH-SVE-020112	2/1/2012	20			0.0023	U		0.0023	U	
SVE RTO Exhaust	EXH-SVE-020212	2/2/2012	21			0.0016	U		0.0016	U	
SVE RTO Exhaust	EXH-SVE-020712	2/7/2012	21			0.0014	U		0.0014	U	
SVE RTO Exhaust	EXH-SVE-020912	2/9/2012	15		J	0.0091	U	UJ	0.0091	U	UJ
SVE RTO Exhaust	EXH-SVE-021412	2/14/2012	20			0.00031	J		0.0019	U	
SVE RTO Exhaust	EXH-SVE-021712	2/17/2012	19		J	0.00015	J	J	0.0035	U	UJ
SVE RTO Exhaust	EXH-SVE-022112	2/21/2012	20			0.0016	J		0.0018	U	
SVE RTO Exhaust	EXH-SVE-022412	2/24/2012	16			0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-022712	2/27/2012	20			0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-030112	3/1/2012	21			0.0017	J		0.000056	J	
SVE RTO Exhaust	EXH-SVE-032312	3/23/2012	20			0.002	U		0.002	U	
SVE RTO Exhaust	EXH-SVE-04192012	4/19/2012	20			0.0034	U		0.0034	U	
SVE RTO Exhaust	EXH-SVE-05172012	5/17/2012	19			0.00079	J		0.0019	U	
SVE RTO Exhaust	EXH-SVE-06212012	6/21/2012	20			0.00073	J		0.002	U	
SVE RTO Exhaust	EXH-SVE-08312012	8/31/2012	18			0.00065	J		0.003	U	
SVE RTO Exhaust	EXH-SVE-09282012	9/28/2012	19			0.00064	J		0.0028	U	
SVE RTO Exhaust	EXH-SVE-10252012	10/25/2012	19			0.00076	J		0.0032	U	
SVE RTO Exhaust	EXH-SVE-113012	11/30/2012	20			0.003	U		0.003	U	
SVE RTO Exhaust	EXH-SVE-120312	12/3/2012	20			0.00053	J		0.0032	U	
SVE RTO Exhaust	EXH-SVE-120412	12/4/2012	20			0.0031	U		0.0031	U	
SVE RTO Exhaust	EXH-SVE-120512	12/5/2012	20			0.00026	J		0.0028	U	
SVE RTO Exhaust	EXH-SVE-121012	12/10/2012	20			0.0026	U		0.0026	U	
SVE RTO Exhaust	EXH-SVE-121212	12/12/2012	19			0.00039	J		0.0027	U	
SVE RTO Exhaust	EXH-SVE-121712	12/17/2012	20			0.0029	U		0.0029	U	
SVE RTO Exhaust	EXH-SVE-121912	12/19/2012	20			0.00043	J		0.0027	U	

The following EVS descriptions and assumptions apply to **Figures 9** through **12**:

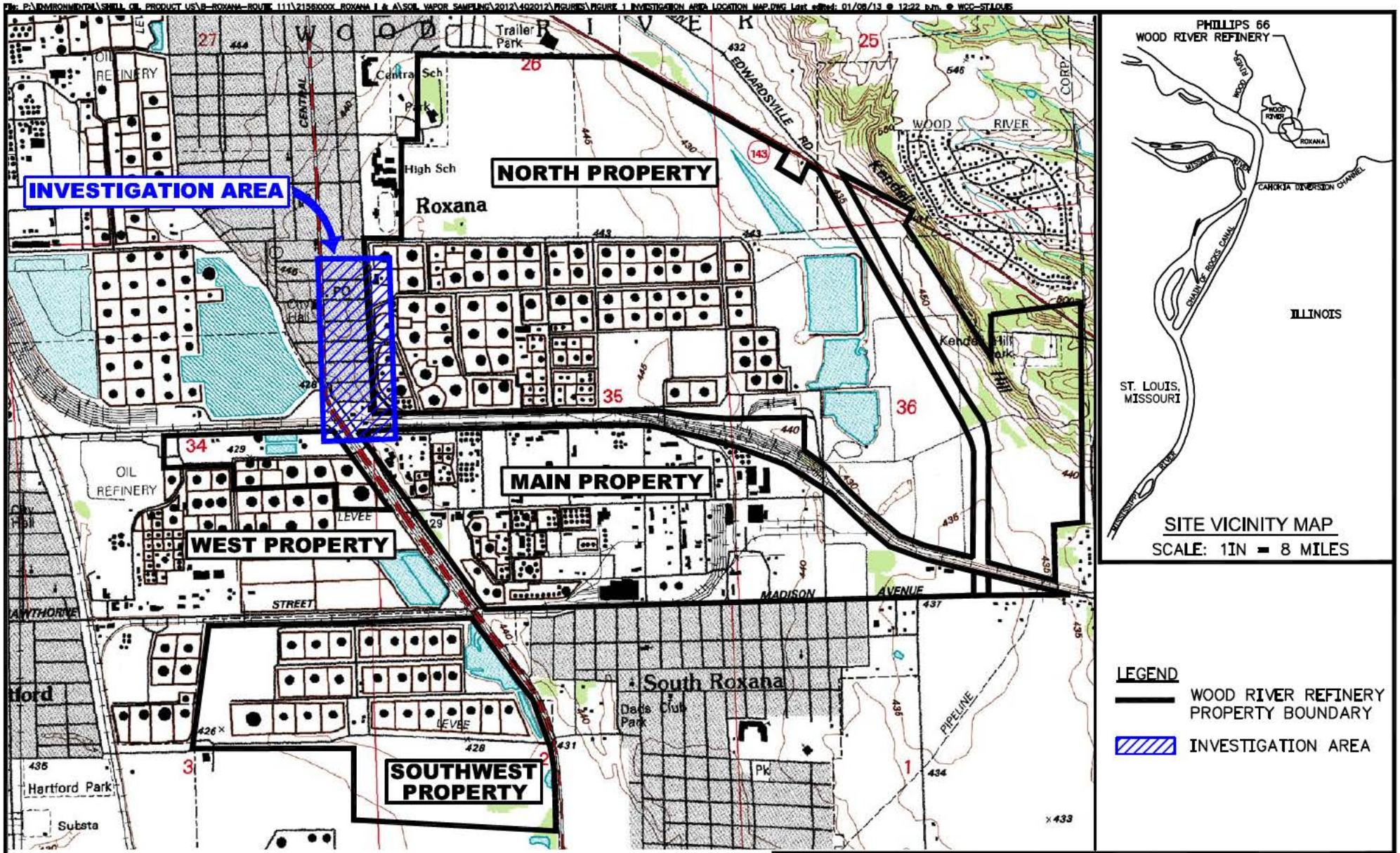
Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in three dimensions (3D). The bottom surface of the resulting model was limited to the potentiometric groundwater surface elevation. The two dimensional (2D) appearance of the figures created from the 3D model was achieved by displaying an aerial view of horizontal slices through the model. The horizontal slices were taken parallel to the ground surface that was created from GPS survey data, rather than at single elevation plane. The result of this is a surface that accurately represents soil vapor concentrations at discreet depths measured from ground surface.

Inward Kriging / Boundary Cut-off – This method of Kriging limits the horizontal extent of data modeling to the extent of the data on the x/y plane in a convex hull. The model is bounded by the VMPs.

Vertical Cut-off – The bottom surface of this model is based on the 3Q12 groundwater gauging data collected in Roxana. The groundwater gauging data was used to model a 2D surface that represents the interface between the top surface of groundwater and the bottom surface of soil vapor.

Duplicate Samples – Analytical concentrations from duplicate samples collected at the same location and depth were averaged.

Detection Limits – In cases where the lab reported a non-detect, half the value of the lab detection limit was used in the model. This conservative method is based on the assumption that the soil is likely not free of benzene but the quantity contained is lower than detectable at the analyzed dilution. Data are posted where non-detect.



SOURCE:
MAP PROVIDED FROM ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, ILL-MO REVISED 1994.

SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO.
21562735

URS

DRN. BY: djd January 2013
DSGN. BY: djd
CHKD. BY: kh

Investigation Area Location Map

FIG. NO.
1

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 2 VAPOR MONITORING SAMPLING POINT LOCATIONS.DWG Last edited: JAN. 08, 13 @ 12:21 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT LOCATIONS
- VAPOR MONITORING POINT LOCATION (NOT USED FOR QUARTERLY SAMPLING)

NOTE:
VMP-29, VMP-30, AND VMP-41 WERE ADDED TO QUARTERLY ROXANA SOIL VAPOR MONITORING PROGRAM IN 3Q12.

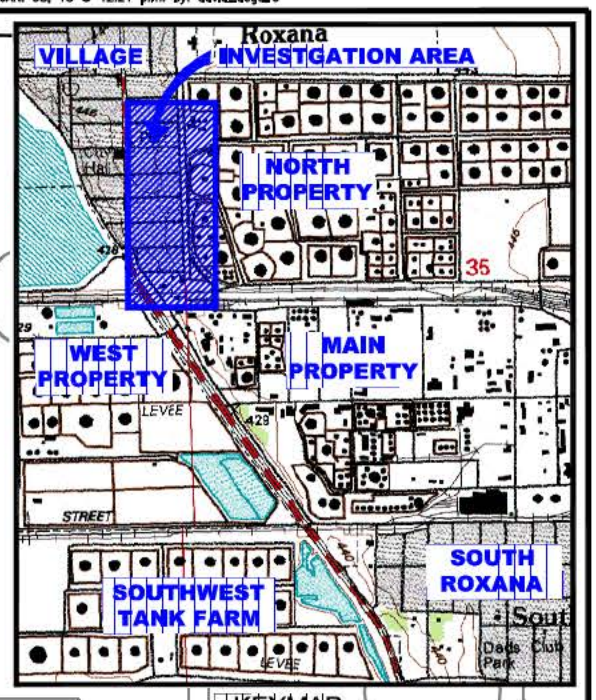
TYDEMAN AVE
FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
S. CENTRAL AVE (HIGHWAY 111)
CHAFFER ST

VILLAGE OF ROXANA
BP
NORTH PROPERTY
WOOD RIVER REFINERY
PUBLIC WORKS YARD
1986 APPROXIMATE BENZENE RELEASE SITE

VMP-1, VMP-2, VMP-3, VMP-4, VMP-5, VMP-6, VMP-7, VMP-8, VMP-9, VMP-10, VMP-11, VMP-12, VMP-13, VMP-14, VMP-15, VMP-16, VMP-17, VMP-18, VMP-19, VMP-20, VMP-21, VMP-22, VMP-23, VMP-24, VMP-25, VMP-29, VMP-30, VMP-31, VMP-32, VMP-41, VMP-42, VMP-43, VMP-44, VMP-45

VMP-26, VMP-27, VMP-28, VMP-33, VMP-34, VMP-35, VMP-36, VMP-37, VMP-38, VMP-39, VMP-40, VMP-46

A-27, A-28, A-33



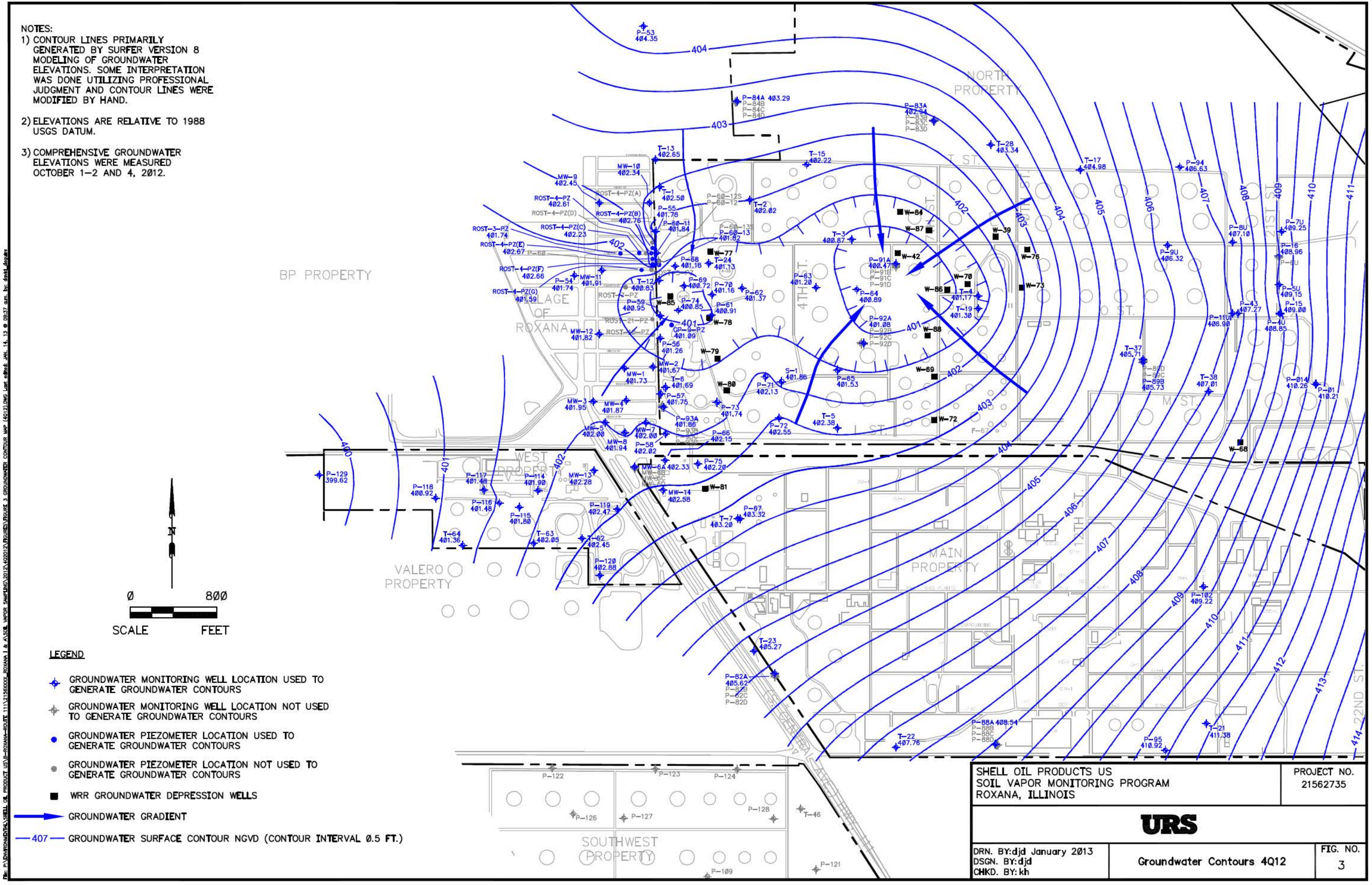
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SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562735
URS	
DRN. BY: djd January 2013 DSGN. BY:mpm CHKD. BY:kh	Vapor Monitoring Point Sampling Locations — FIG. NO. 2

NOTES:
1) CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.

2) ELEVATIONS ARE RELATIVE TO 1988 USGS DATUM.

3) COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 1–2 AND 4, 2012.



LEGEND

- GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER PIEZOMETER LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER PIEZOMETER LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- WRR GROUNDWATER DEPRESSION WELLS
- GROUNDWATER GRADIENT
- 407 — GROUNDWATER SURFACE CONTOUR NGVD (CONTOUR INTERVAL Ø.5 FT.)

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562735
URS		
DRN. BY: djd January 2013 DSGN. BY: djd CHKD. BY: kh	Groundwater Contours 4Q12	FIG. NO. 3

Plot: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\IL-ROXANA-ROUTE 111\21562000\GIS_ROXANA 1 & 2\SOIL VAPOR SAMPLING\2012\2Q2012\FIGURES\FIGURE 3 GROUNDWATER CONTOUR MAP (4Q12).DWG Last edited: JAN. 14, 13 @ 09:37 am, by: dmkt.dingler

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 4 VAPOR PORT SCREEN COMPARISON TO GW ELEVATIONS (4Q12).DWG Last edited: JAN. 14, 13 @ 1:44 p.m. by: david_deguire

NOTES:

1) COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 1-2 AND 4, 2012.

2) CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.

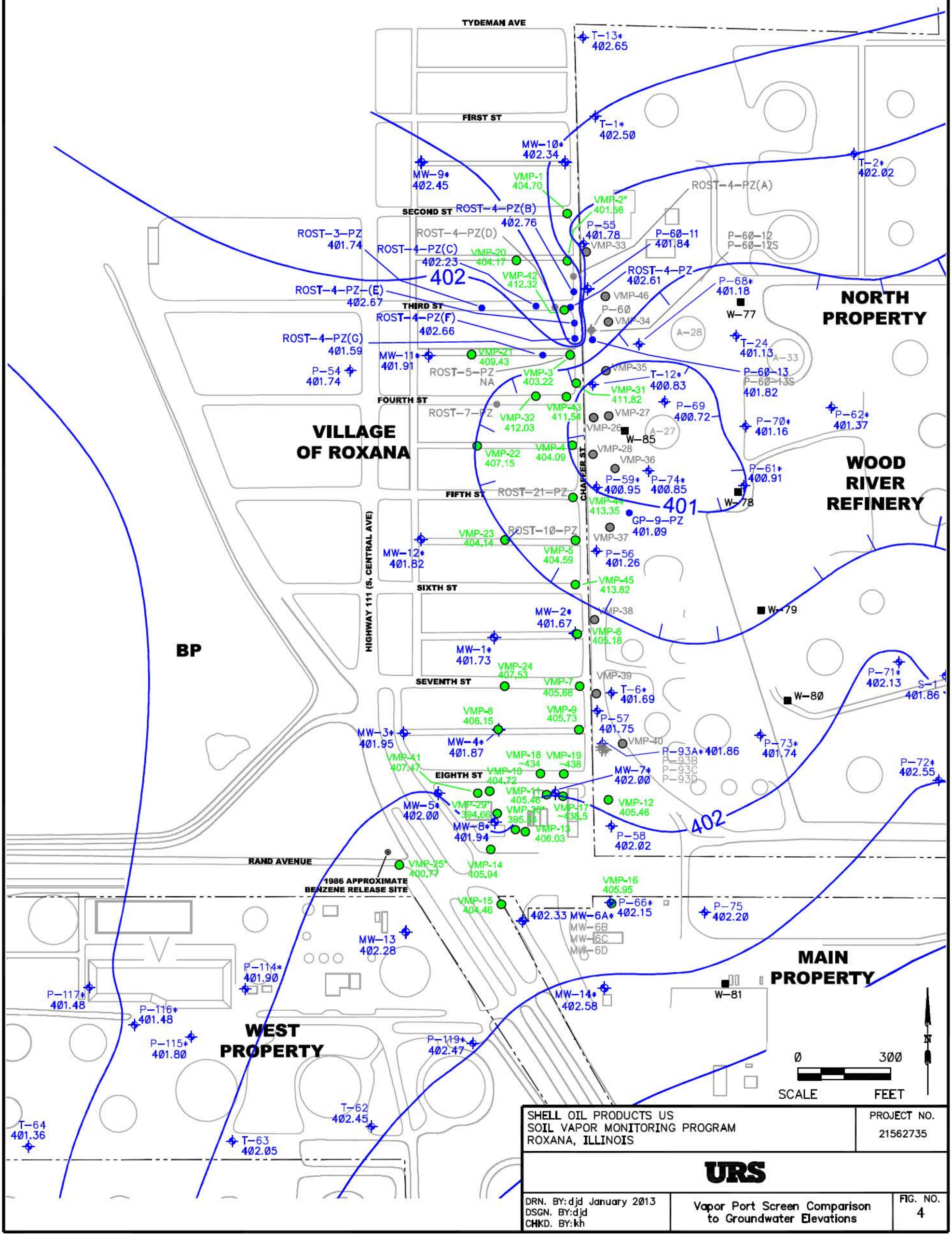
3) ELEVATIONS ARE RELATIVE TO 1988 USGS DATUM.

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* INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF THE GROUNDWATER MONITORING WELL SCREEN OR THE DEEPEST VAPOR MONITORING POINT SCREEN.

LEGEND

- GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- VAPOR MONITORING POINT LOCATION (ELEVATION OF TOP OF THE DEEPEST VAPOR MONITORING POINT SCREEN)
- GROUNDWATER PIEZOMETER LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- WRR GROUNDWATER DEPRESSION WELLS
- GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER PIEZOMETER LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- VAPOR MONITORING POINT LOCATION (NOT USED FOR QUARTERLY SAMPLING)
- —401— GROUNDWATER SURFACE CONTOUR NGVD (CONTOUR INTERVAL 0.5 FT)



SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562735
URS	
DRN. BY: djd January 2013 DSGN. BY: djd CHKD. BY: kh	Vapor Port Screen Comparison to Groundwater Elevations
	FIG. NO. 4

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 5 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (VILLAGE).DWG Last edited: JAN. 17, 13 @ 2:10 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT LOCATION
- VAPOR MONITORING POINT LOCATION (NOT USED FOR QUARTERLY SAMPLING)
- BENZENE CONCENTRATION > SCREENING CRITERION (0.37 mg/m³), FOR RESIDENTIAL.

NOTES:

1. Not Sampled[1] = VMP SCREEN SUBMERGED BELOW WATER TABLE. NO SAMPLE COLLECTED.
2. Resample[2] = VERIFY BENZENE RESULTS FROM LABORATORY.
3. Not Sampled[3] = FAILED HELIUM LEAK TEST.
4. J = RESULT IS ESTIMATED
   U = NON-DETECT DUE TO BLANK CONTAMINATION.
   < = NOT DETECTED AT INDICATED REPORTING LIMIT.
5. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES.

TYDEMAN AVE
FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
BP
PUBLIC WORKS YARD
1986 APPROXIMATE BENZENE RELEASE SITE
A-33
A-27

VMP-1, VMP-2, VMP-3, VMP-4, VMP-5, VMP-6, VMP-7, VMP-8, VMP-9, VMP-10, VMP-11, VMP-12, VMP-13, VMP-14, VMP-15, VMP-16, VMP-17, VMP-18, VMP-19, VMP-20, VMP-21, VMP-22, VMP-23, VMP-24, VMP-25, VMP-26, VMP-29, VMP-30, VMP-31, VMP-32, VMP-33, VMP-34, VMP-35, VMP-36, VMP-37, VMP-41, VMP-42, VMP-43, VMP-44, VMP-45

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-20	5 ft	0.0043	<0.0037	0.048	0.0082
	10 ft	0.045	0.0043	0.0033	0.005
	25 ft	0.0042	0.004 / 0.0041	0.001 J	0.0014 J
	39.5 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	0.28 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-1	5 ft	0.28 J	0.014	0.084	<0.0073
	8.5 ft	< 5.6	0.0083 / 0.0072	0.058	0.0037 J
	23.5 ft	< 19	< 1.5	< 19	<38
	38.5 ft	Not Sampled[1]	Not Sampled[2]	0.042	0.71 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-2	5 ft	0.23 J	0.18	0.067	0.17
	8.5 ft	0.53 J / 0.79 J	0.012 / 0.013	0.087 / 0.084	0.014
	22 ft	0.74 J	0.079	0.19	0.0066
	42 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-42	10 ft		0.026 J / 0.02 J	0.038	0.046
	20 ft		0.4 J	0.038	0.0067 / 0.008
	30 ft		3.1	0.077 J	0.011 / 0.0072

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-3	5 ft	0.63 J	0.086	0.13	Not Sampled[3]
	10 ft	0.091	0.027	0.0049	0.066
	22 ft	0.12	0.028	0.0093	0.14
	31.5 ft	27 J	< 76 / < 73	< 18	0.32 J
	39 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	47 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-31	5 ft		0.29	0.0043	0.015
	10 ft		0.54	0.0026 J	0.02
	20 ft		Not Sampled[1]	Not Sampled[1]	0.64 J
	30 ft		9.9 / 12	< 0.3	0.044 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-43	10 ft		0.56	0.044	0.022
	20 ft		0.091	0.077	0.0026 J
	30 ft		0.84	0.063	0.29

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-21	5 ft	0.00067J / 0.00091J	0.58	0.003 J	0.0018 J
	10 ft	0.017	0.041	0.0018 J	0.0076
	25 ft	0.027 J	0.048	0.00098 J	0.0078
	33 ft	0.13 J	0.41	0.0011 J	0.012

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-4	5 ft	0.23	0.31	0.28	0.31
	12 ft	3.4	0.068	0.02	0.004 J / 0.0038 J
	23.5 ft	570 / 420	44	56	1.6 J
	39 ft	Not Sampled[1]	67	50	28 J /26 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-32	5 ft		0.047	0.091	0.0037 J
	10 ft		0.0032	0.044	0.026
	20 ft		0.034 J	0.0085	0.0014 J
	30 ft		35	16	0.074 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-44	10 ft		< 1.5	4.2 J / 3.3 J[3]	1.1
	20 ft		4.1	3 J	1.5 J
	30 ft		32	14 / 14	4 / 3.9

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-22	5 ft	0.11 J	0.0085	0.0012 J	0.0025 J / 0.0045
	10 ft	0.02	0.0068	< 0.0035 / < 0.0034	0.015
	18 ft	0.012 J	0.0062	0.029	0.0036 J
	38 ft	0.04	0.012	0.074	0.0096

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-5	5 ft	9.1	0.017	0.0028 J	0.0043
	12.5 ft	2.4	0.033	0.0018 J	0.015
	31 ft	10	0.08	0.0044	0.0078
	40 ft	6.8 J	0.15	< 0.032	0.011

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-23	5 ft	0.023	0.0089	0.0024 J	0.011
	10 ft	0.068	0.002 J / 0.0041	0.0014 J	0.011
	25 ft	0.058	0.022	0.0027 J	0.0095
	40 ft	Not Sampled[1]	Not Sampled[1]	0.0081	0.018

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-45	10 ft		0.052	0.005	0.0036 J
	20 ft		0.63	0.018 J	0.0053
	30 ft		< 0.12	< 0.03	0.0052 / 0.0051

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-24	5 ft	0.0013 J	0.024	0.043	0.081
	10 ft	0.00061 J	< 0.0029 J U	0.0078	0.00099 J
	22 ft	0.00079 J	0.0037	0.033	0.0013 J
	34 ft	0.00051 J	0.037	0.1	0.0067

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-6	5 ft	0.096	0.01	0.0097	0.003 J
	10 ft	0.51 J	0.007	0.0081	0.0066
	31.5 ft	8.1 J	< 0.36	0.016	0.0049
	39 ft	8.3 J	1.7	0.02 / 0.016	0.0082 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-8	5 ft	0.023	0.0025	0.00084 J / 0.064[2]	0.0031 J / 0.0038 J
	9.5 ft	0.0026 J	0.0046	< 0.003 / < 0.0028	0.021
	23.5 ft	0.0068	0.0056	0.0028 J	0.018
	35.5 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-7	5 ft	0.0055	0.0089	0.12	0.0024 J
	13.5 ft	0.048 J / 0.088 J	0.022 / 0.019	0.0087	0.0058
	29.5 ft	15 J	0.0078	0.031 / 0.032	0.0098
	38 ft	15 J	0.48 / 0.54	Not Sampled[3]	0.012

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-9	5 ft	0.011	0.0075	0.067	0.0037 J
	11.5 ft	0.0024 J	0.0074	0.017	0.0066
	25.5 ft	0.24 J	0.0038	0.062 / 0.061	0.005
	38.5 ft	1.1 J	0.01	0.21	1.2

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-18	8.5 ft	0.0012 J	0.039	0.12	0.0064

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-19	5 ft	0.001 J	0.028	0.082	0.0033 J

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SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 21562735

URS

DRN. BY: djd January 2013
DSGN. BY: djd
CHKD. BY: kh

Summary of Benzene Soil Vapor Analytical Results – Village of Roxana

FIG. NO. 5

LEGEND

- VAPOR MONITORING POINT LOCATION
- VAPOR MONITORING POINT LOCATION (NOT USED FOR QUARTERLY SAMPLING)
- BENZENE CONCENTRATION > SCREENING CRITERION (2.8 mg/m³), FOR INDUSTRIAL/COMMERCIAL.

NOTES:

1. Not Sampled[1] = VMP SCREEN SUBMERGED BELOW WATER TABLE. NO SAMPLE COLLECTED.
2. DATA Not Accepted[2] = DUE TO HELIUM RESULTS.
3. Not Sampled[3] = FAILED HELIUM LEAK TEST.
4. J = RESULT IS ESTIMATED
   < = NOT DETECTED AT INDICATED REPORTING LIMIT.
5. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES.
6. VMP-29, VMP-30, AND VMP-41 WERE ADDED TO THE QUARTERLY ROXANA SOIL VAPOR MONITORING PROGRAM IN 3Q12.

VMP-34 A-28 VMP-3 VMP-21 VMP-35 VMP-31 FOURTH ST VMP-32 VMP-43 VMP-27 VMP-26 A-27 VMP-4 VMP-22 VMP-28 VILLAGE VMP-36 FIFTH ST VMP-44 VMP-37 VMP-5 HIGHWAY 111 (S. CENTRAL AVE) CHAFFER ST NORTH PROPERTY VMP-45 SIXTH ST VILLAGE OF ROXANA VMP-38 WOOD RIVER REFINERY VMP-6 BP SEVENTH ST VMP-8 VMP-40 VMP-18 VMP-19 EIGHTH ST VMP-11 VMP-17 VMP-41 VMP-10 VMP-12 PUBLIC WORKS YARD VMP-29 VMP-30 VMP-13 1986 APPROXIMATE BENZENE RELEASE SITE VMP-14 RAND AVENUE VMP-25 VMP-15 VMP-16 MAIN PROPERTY WEST PROPERTY

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-10	5 ft	0.018	0.0078	0.0025 J	1.9
	10 ft	0.0042 J / 0.048 J	0.0096	0.01	0.95
	20 ft	0.066	0.011	0.0084	0.16
	30 ft	Data not accepted[2]	0.0039	0.013	0.029

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-11	5 ft	0.0017 J	0.061	0.006	0.003 J
	8 ft	0.0016 J	0.11	0.0017 J	0.012 / 0.012
	29 ft	0.0016 J	0.14	0.018	0.0015 J
	38 ft	Not Sampled[1]	370 / 380	170	0.01

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-41	10 ft			0.16	0.034
	20 ft			0.039 / 0.044	0.027 / 0.027
	30 ft			0.34	0.041

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-17	5 ft	0.0022 J	0.021	0.11	0.0043 J

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-29	10 ft			< 0.034	0.47
	20 ft			0.066 J / 0.047 J	0.12
	30 ft			0.057 J	0.11 J
	40 ft			Not Sampled[1]	Not Sampled[1]

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-30	10 ft			0.016 J	0.016
	20 ft			2.1	0.35
	30 ft			7.2	5.4
	40 ft			Not Sampled[1]	Not Sampled[1]

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-25	5 ft	4.8	0.066	0.21	0.0017 J
	9.5 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]
	21 ft	59 / 62	37	48	48 J
	31 ft	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]	Not Sampled[1]

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-14	5 ft	Not Sampled[1]	0.026	0.43	0.025
	11.5 ft	3.8	0.0068 / 0.0068	< 1	0.0039 J
	20 ft	17,000	13,000	13,000	9,400
	29 ft	26,000	22,000	21,000	9,400

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-13	5 ft	8.2 J	0.0027 J	0.0039 / 0.004	0.017
	10.5 ft	2.6 J / 3.9 J	0.0088	0.0078	0.025 / 0.023
	21.5 ft	370 J	0.098	0.009	0.088
	29.5 ft	8,600	2,300	2,600	630

Location	Depth	Benzene (mg/m³) 1Q12	2Q12	3Q12	4Q12
VMP-15	5 ft	< 0.027	0.063	0.005	0.013
	21.5 ft	0.16 J	0.91	0.25 J	0.24 J / 0.24 J
	25.5 ft	Not Sampled[3]	Not Sampled[3]	0.024 J	0.034
	29 ft	Not Sampled[1]	Not Sampled[1]	0.17 J	0.026

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SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 21562735

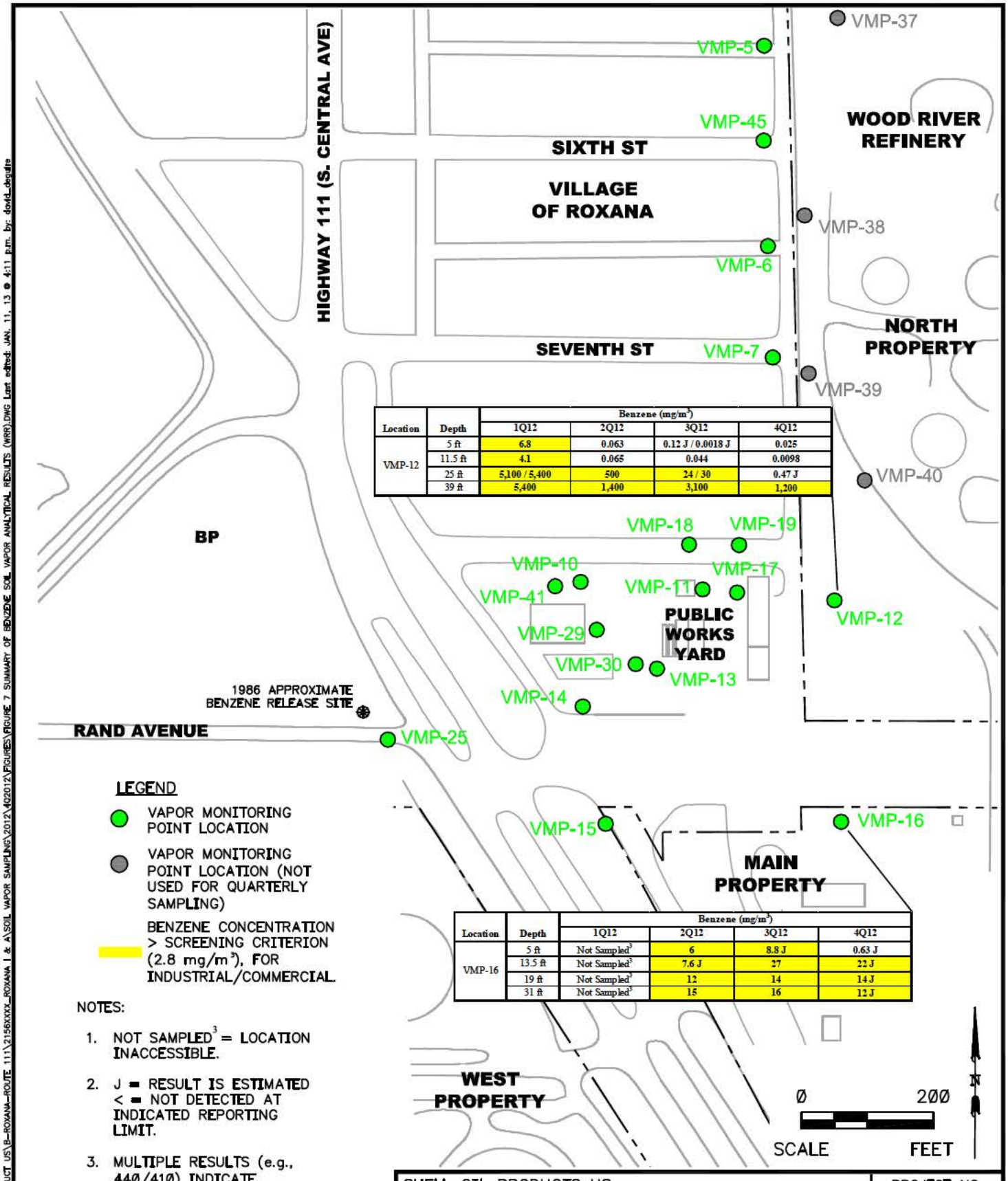
URS

DRN. BY: djd January 2013
DSGN. BY: djd
CHKD. BY: kh

Summary of Benzene Soil Vapor Analytical Results– Roxana Public Works Yard

FIG. NO. 6

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21560XXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 6 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (PUBLIC WORKS YARD).DWG Last edited: JAN. 17, 13 @ 1:28 p.m. by: david_deguire



Location	Depth	Benzene (mg/m³)			
		1Q12	2Q12	3Q12	4Q12
VMP-12	5 ft	6.8	0.063	0.12 J / 0.0018 J	0.025
	11.5 ft	4.1	0.065	0.044	0.0098
	25 ft	5,100 / 5,400	500	24 / 30	0.47 J
	39 ft	5,400	1,400	3,100	1,200

Location	Depth	Benzene (mg/m³)			
		1Q12	2Q12	3Q12	4Q12
VMP-16	5 ft	Not Sampled[3]	6	8.8 J	0.63 J
	13.5 ft	Not Sampled[3]	7.6 J	27	22 J
	19 ft	Not Sampled[3]	12	14	14 J
	31 ft	Not Sampled[3]	15	16	12 J

LEGEND

- VAPOR MONITORING POINT LOCATION
- VAPOR MONITORING POINT LOCATION (NOT USED FOR QUARTERLY SAMPLING)
- BENZENE CONCENTRATION > SCREENING CRITERION (2.8 mg/m³), FOR INDUSTRIAL/COMMERCIAL.

NOTES:

1. NOT SAMPLED[3] = LOCATION INACCESSIBLE.
2. J = RESULT IS ESTIMATED < = NOT DETECTED AT INDICATED REPORTING LIMIT.
3. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES.

SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 21562735

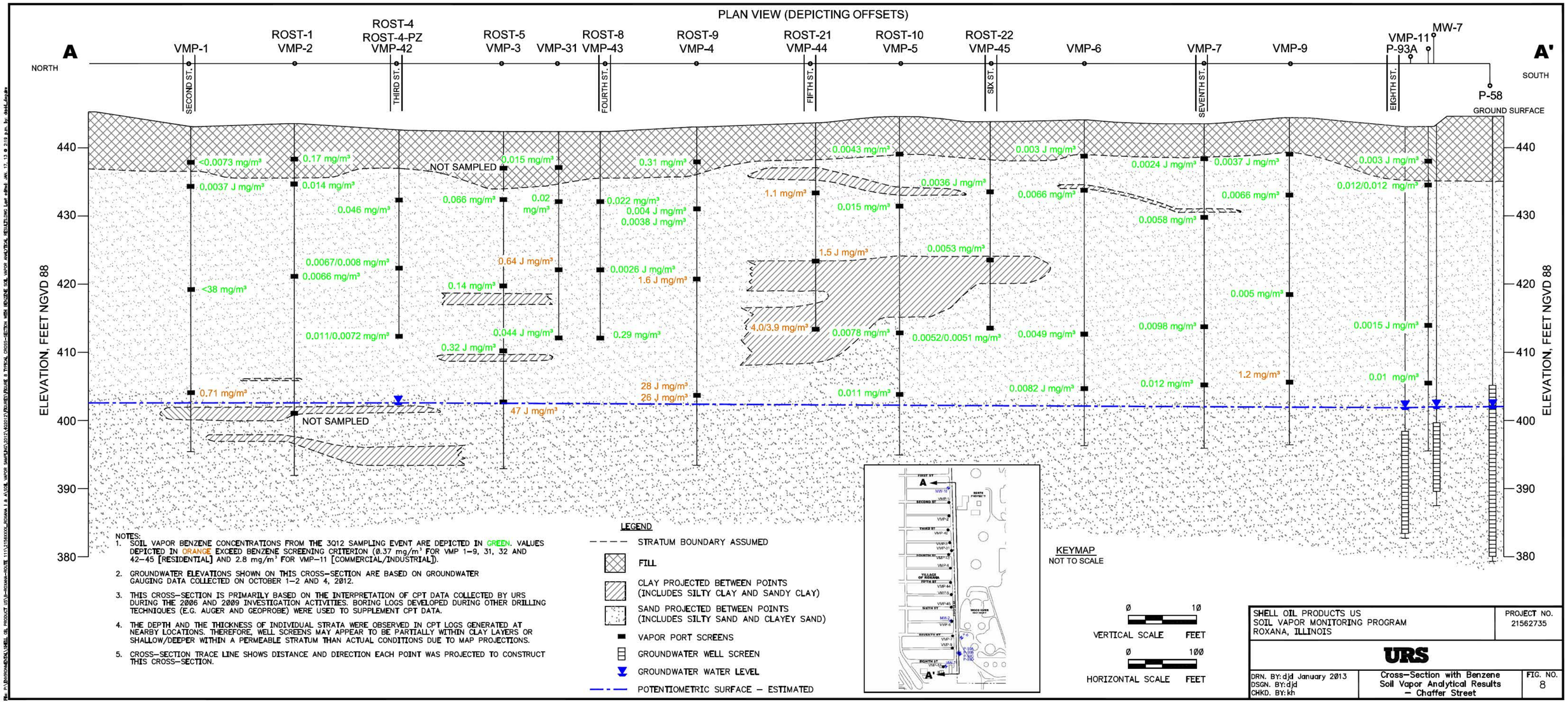
URS

DRN. BY: djd January 2013
DSGN. BY: djd
CHKD. BY: kh

Summary of Benzene Soil Vapor Analytical Results – WRR

FIG. NO. 7

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\402012\FIGURES\FIGURE 7 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (WRR).DWG Last edited: JAN. 11, 13 @ 4:11 p.m. by: dodd_dequire



NOTES:

1. SOIL VAPOR BENZENE CONCENTRATIONS FROM THE 3Q12 SAMPLING EVENT ARE DEPICTED IN GREEN. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.37 mg/m³ FOR VMP 1-9, 31, 32 AND 42-45 [RESIDENTIAL] AND 2.8 mg/m³ FOR VMP-11 [COMMERCIAL/INDUSTRIAL]).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED ON OCTOBER 1-2 AND 4, 2012.
3. THIS CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2006 AND 2009 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THE THICKNESS OF INDIVIDUAL STRATA WERE OBSERVED IN CPT LOGS GENERATED AT NEARBY LOCATIONS. THEREFORE, WELL SCREENS MAY APPEAR TO BE PARTIALLY WITHIN CLAY LAYERS OR SHALLOW/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS.
5. CROSS-SECTION TRACE LINE SHOWS DISTANCE AND DIRECTION EACH POINT WAS PROJECTED TO CONSTRUCT THIS CROSS-SECTION.

LEGEND

- STRATUM BOUNDARY ASSUMED
- FILL
- CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
- SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
- VAPOR PORT SCREENS
- GROUNDWATER WELL SCREEN
- GROUNDWATER WATER LEVEL
- POTENTIOMETRIC SURFACE – ESTIMATED

KEYMAP
NOT TO SCALE

VERTICAL SCALE 0 10 FEET

HORIZONTAL SCALE 0 100 FEET

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562735
URS		
DRN. BY: djd January 2013 DSGN. BY: djd CHKD. BY: kh	Cross-Section with Benzene Soil Vapor Analytical Results – Chaffer Street	FIG. NO. 8

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 9 SUMMARY OF SOIL VAPOR BENZENE-5FT BGS.DWG Last edited: JAN. 17, 13 @ 2:06 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT
- VAPOR MONITORING POINT LOCATIONS (NOT USED FOR QUARTERLY SAMPLING)
- EXTENT OF EVS MODEL DATA SET
- MODELED SOIL VAPOR CONCENTRATION BENZENE (mg/m^3)

NOTE:
1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
2. THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERION FOR RESIDENTIAL PROPERTIES (Ø.37 mg/m^3).
3. DATA SHOWN REPRESENT A HORIZONTAL SLICE OF A 3D MODEL.
4. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND (e.g., DASH LINES).
5. NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE OF ROXANA
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
BP
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
1986 APPROXIMATE BENZENE RELEASE SITE
A-28
A-27

VMP-1, VMP-2, VMP-20, VMP-21, VMP-3, VMP-31, VMP-32, VMP-43, VMP-22, VMP-4, VMP-44, VMP-23, VMP-5, VMP-45, VMP-38, VMP-6, VMP-7, VMP-24, VMP-9, VMP-8, VMP-18, VMP-19, VMP-10, VMP-41, VMP-11, VMP-17, VMP-29, VMP-30, VMP-13, VMP-14, VMP-25, VMP-15, VMP-16, VMP-12, VMP-33, VMP-46, VMP-42, VMP-34, VMP-35, VMP-27, VMP-26, VMP-28, VMP-36, VMP-37, VMP-39, VMP-40

1.0
0.37
0.37
0.37

Ø 200
SCALE FEET

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562735
URS		
DRN. BY: djd January 2013 DSGN. BY: nm CHKD. BY: kh	Benzene Soil Vapor Distribution– 5 ft bgs	FIG. NO. 9

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 10 SUMMARY OF SOIL VAPOR BENZENE 10FT BGS.DWG Last edited: JAN. 17, 13 @ 1:54 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT
- VAPOR MONITORING POINT LOCATIONS (NOT USED FOR QUARTERLY SAMPLING)
- EXTENT OF EVS MODEL DATA SET
- MODELED SOIL VAPOR CONCENTRATION BENZENE (mg/m^3)

NOTE:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
2. THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERIA FOR RESIDENTIAL PROPERTIES (Ø.37 mg/m^3).
3. DATA SHOWN REPRESENT A HORIZONTAL SLICE OF A 3D MODEL.
4. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
5. NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE OF ROXANA
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
BP
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
A-28
A-27
1986 APPROXIMATE BENZENE RELEASE SITE
VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25
VMP-26
VMP-27
VMP-28
VMP-29
VMP-30
VMP-31
VMP-32
VMP-33
VMP-34
VMP-35
VMP-36
VMP-37
VMP-38
VMP-39
VMP-40
VMP-41
VMP-42
VMP-43
VMP-44
VMP-45
VMP-46
0.37
1.0
Ø
200
SCALE
FEET
N

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562735
URS		
DRN. BY:djd January 2013 DSGN. BY:nm CHKD. BY:kh	Benzene Soil Vapor Distribution- 10 ft bgs	FIG. NO. 10

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCTS US\B-ROXANA-ROUTE 111\21561XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 11 SUMMARY OF SOIL VAPOR BENZENE 25FT BGS.DWG Last edited: JAN. 17, 13 @ 1:49 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT
- VAPOR MONITORING POINT LOCATIONS (NOT USED FOR QUARTERLY SAMPLING)
- EXTENT OF EVS MODEL DATA SET
- MODELED SOIL VAPOR CONCENTRATION BENZENE (mg/m^3)

NOTE:
1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
2. THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERIA FOR RESIDENTIAL PROPERTIES (0.37 mg/m^3).
3. DATA SHOWN REPRESENT A HORIZONTAL SLICE OF A 3D MODEL.
4. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
5. NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.

VMP-1 < 3.8 mg/m^3 AT 23.5FT
10.0
0.37
1.0
SECOND ST
VMP-2
VMP-20
VMP-33
NORTH PROPERTY
THIRD ST
VMP-42
VMP-46
VMP-34
A-28
VMP-21
VMP-3
VMP-31
VMP-35
VMP-32
VMP-43
FOURTH ST
VMP-27
VMP-26
A-27
VMP-22
VMP-4
VMP-28
0.37
1.0
VMP-36
WOOD RIVER REFINERY
VMP-44
FIFTH ST
VILLAGE OF ROXANA
VMP-37
VMP-23
VMP-5
CHAFFER ST
VMP-45
SIXTH ST
VMP-38
VMP-6
HIGHWAY 111 (S. CENTRAL AVE)
BP
SEVENTH ST
VMP-7
VMP-24
VMP-39
VMP-9
VMP-8
VMP-40
VMP-18 VMP-19
EIGHTH ST
VMP-41
VMP-10
VMP-11
PUBLIC WORKS YARD
VMP-17
VMP-12
VMP-29
VMP-30
VMP-13
1986 APPROXIMATE BENZENE RELEASE SITE
1,000.0
VMP-14
RAND AVENUE
VMP-25
100.0
10.0
10.0
1.0
VMP-16
VMP-15
0.37
MAIN PROPERTY
WEST PROPERTY
0
200
SCALE
FEET

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562735
URS	
DRN. BY: djd January 2013 DSGN. BY: nm CHKD. BY: kh	Benzene Soil Vapor Distribution– 25 ft bgs FIG. NO. 11

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 12 DISSOLVED PHASE BENZENE CONCENTRATIONS IN GROUNDWATER.DWG Last edited: JAN. 14, 13 @ 09:54 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PROFILE SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LNAPL THICKNESS
- GROUNDWATER PIEZOMETER LNAPL THICKNESS
- GROUNDWATER PIEZOMETER SAMPLING LOCATION
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- EXTENT OF EVS MODEL DATA SET
- 50.0 GROUNDWATER CONCENTRATION BENZENE (mg/L)

NOTES:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. GROUNDWATER MONITORING WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGEMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ALL RESULTS SHOWN IN mg/L.
3. ANALYTICAL REPORTING LIMITS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g., <0.0005 mg/L).
4. J = THE TARGET ANALYTE WAS DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
5. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
6. ROST-3-PZ AND ROST-PZ-4 (C) WERE ADDED TO THE INTERIM GROUNDWATER MONITORING PROGRAM IN 2Q12.
7. MULTIPLE RESULTS (e.g. 833\863) INDICATE DUPLICATE SAMPLES.
8. GROUNDWATER MONITORING WELL P-55 WAS FOUND TO BE COMPROMISED DURING 3Q12 4Q12 AND WAS NOT SAMPLED.
9. P-60 LOCATED IN WRR CONTAINED 0.11 FT OF LNAPL DURING 4Q12 COMPREHENSIVE GAUGING.
10. GROUNDWATER PROFILE CONDUCTED AT GWP-28 ON OCTOBER 9, 2012.

LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 1-2 AND 4, 2012. REFER TO TABLE 1 FOR GROUNDWATER GAUGING INFORMATION

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
BP
PUBLIC WORKS YARD
1986 APPROXIMATE BENZENE RELEASE SITE

MW-9 <0.0005
MW-10 <0.0005
MW-11 <0.0005
MW-12 <0.0005
MW-1 <0.0005
MW-2 0.0142
MW-3 0.0017
MW-4 0.354
MW-5 0.0628
MW-6A 0.00073
MW-6B 0.0015
MW-6C 0.00035 J
MW-6D 0.00055
MW-7 833/863
MW-8 523
MW-13 0.0048
MW-14 0.00093
ROST-3-PZ 0.0052
ROST-4-PZ(C) 0.0033
ROST-4-PZ
ROST-4-PZ(E) 0.03
P-54 <0.0005
P-55
P-56 0.176
P-57 142
P-58 415
P-59 10.3/10.5
P-60-11 0.09
P-60 0.11
P-60-S 1.90
P-66 0.223
P-68 0.19
P-69
P-70
P-74 3.5
P-93A 148/156
P-93B 162 J/413 J
P-93C <0.0005
P-93D 0.049
P-114 <0.0005
P-115
P-116
T-6
T-12 1.71
T-24
P-61
P-73
P-75
A-27
A-28
GWP-28-40 <0.0005
GWP-28-60 <0.0005
GWP-28-80 <0.0005

0.01
0.10
0.005
0.05
0.5
5.0
50.0
500.0

0 200 SCALE FEET

N

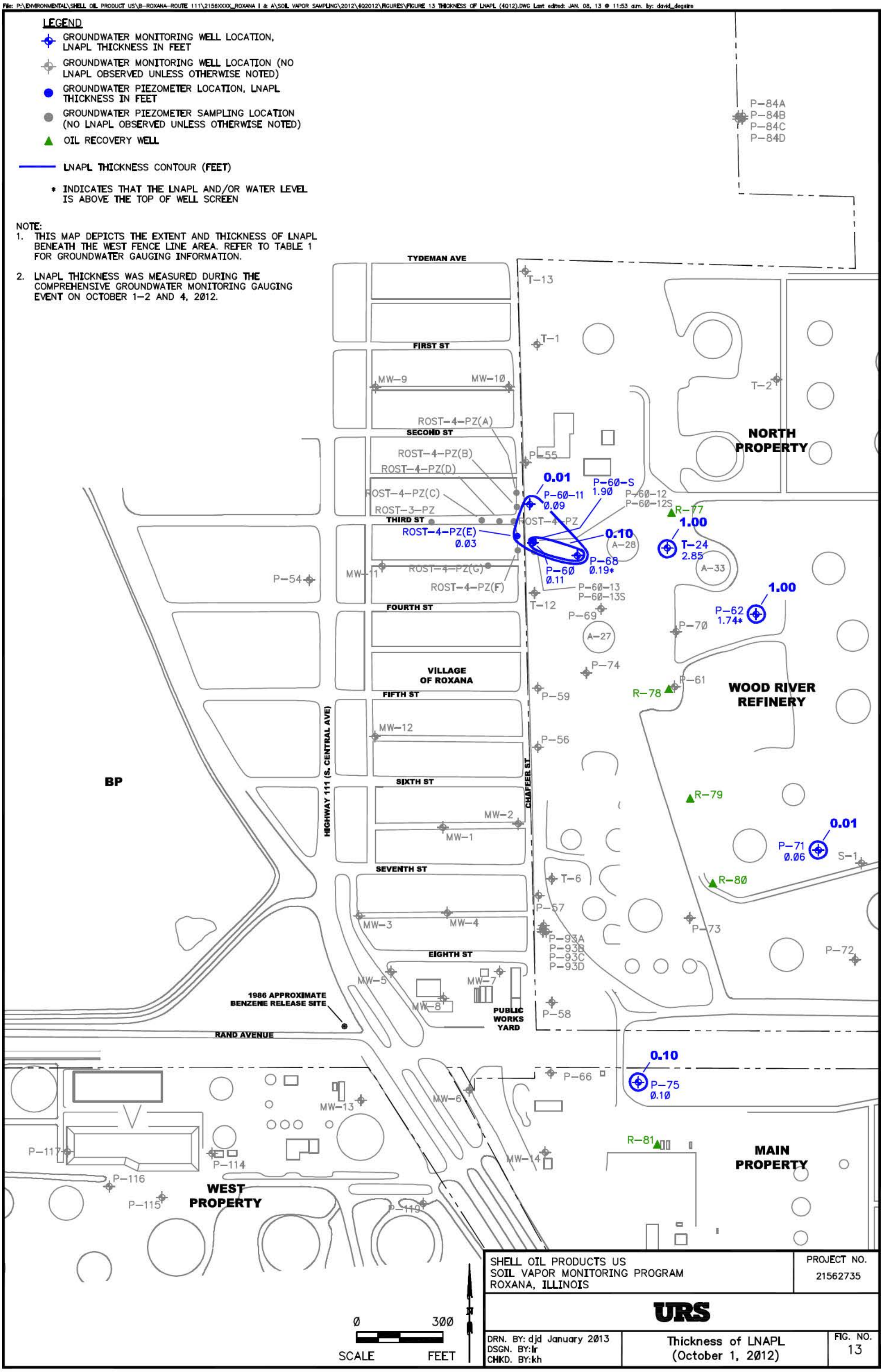
SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562735
URS	
DRN. BY: djd January 2013 DSGN. BY: nm CHKD. BY: kh	4Q12 Dissolved Phase Benzene Concentrations in Groundwater
	FIG. NO. 12

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA I & A\SOIL VAPOR SAMPLING\2012\4Q2012\FIGURES\FIGURE 13 THICKNESS OF LNAPL (4Q12).DWG Last edited: JAN. 08, 13 @ 11:53 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL LOCATION, LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER LOCATION, LNAPL THICKNESS IN FEET
- GROUNDWATER PIEZOMETER SAMPLING LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- LNAPL THICKNESS CONTOUR (FEET)
- * INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

NOTE:
1. THIS MAP DEPICTS THE EXTENT AND THICKNESS OF LNAPL BENEATH THE WEST FENCE LINE AREA. REFER TO TABLE 1 FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 1-2 AND 4, 2012.



SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562735
URS		
DRN. BY: djd January 2013 DSGN. BY:lr CHKD. BY:kh	Thickness of LNAPL (October 1, 2012)	FIG. NO. 13



LEG NO.	SVE WELLS	COLOR	WELL SYMBOL
1	SVE-5 THROUGH SVE-9	RED	
2	SVE-3, SVE-4, SVE-25 & SVE-10 THROUGH SVE-12	BLUE	
3	SVE-13 THROUGH SVE-19 & SVE-36	GREEN	
4	SVE-20 THROUGH SVE-27	TEAL	
5	SVE-28 THROUGH SVE-33	PURPLE	
6	SVE-34 THROUGH SVE-35	BROWN	

LEGEND:
- SVE EXTRACTION WELL (SEE TABLE FOR COLOR LEGEND)
- VAPOR MONITORING POINT (VMP)
- PROPERTY BOUNDARY

SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562850
URS		
DRN. BY: djd February 2013 DSGN. BY: fv CHKD. BY: dp	SVE System Layout	FIG. NO. 14

January 17, 2013 10:00:48 am (dav)
P:\Environmental\Shell Oil Product US\Roxana-Route 111\21562850\C_Roxana I & A\Soil Vapor Sampling\2012\402012\Figures\Figure 14 SVE System Layout.dwg

SVE System O&M 2012 Data Review

Laboratory SDG: 1202113A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 3/2/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-013112	EXH-SVE-020112
EXH-SVE-020212	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples EXH-SVE-013112 and EXH-SVE-020212 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. Although not indicated on the COC, URS contacted the laboratory to include analyses ASTM D-1945 and TO-3 not originally included on the COC. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated canister tag identification for sample EXH-SVE-020112 did not match COC designations; the sample was correctly logged in and data reported using COC information.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1202113A-04A	TO-15	Vinyl choride	0.16 ppbv / 0.40 µg/m^3
1202113A-04A	TO-15	Carbon disulfide	0.35 ppbv / 1.1 µg/m^3
1202113A-04A	TO-15	Methylene chloride	0.24 ppbv / 0.82 µg/m^3
1202113A-04A	TO-15	Benzene	0.058 ppbv / 0.19 µg/m^3
1202113A-04A	TO-15	1,2-Dichloroethane	0.14 ppbv / 0.59 µg/m^3
1202113A-04A	TO-15	Trichloroethane	0.18 ppbv / 0.96 µg/m^3
1202113A-04A	TO-15	Toluene	0.12 ppbv / 0.44 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1202113A-04A	TO-15	trans-1,3-Dichloropropene	0.22 ppbv / 1.0 µg/m^3
1202113A-04A	TO-15	Tetrachloroethene	0.11 ppbv / 0.76 µg/m^3
1202113A-04A	TO-15	Dibromochloromethane	0.076 ppbv / 0.64 µg/m^3
1202113A-04A	TO-15	1,2-Dibromoethane (EDB)	0.18 ppbv / 1.4 µg/m^3
1202113A-04A	TO-15	Chlorobenzene	0.17 ppbv / 0.78 µg/m^3
1202113A-04A	TO-15	m,p-Xylene	0.13 ppbv / 0.56 µg/m^3
1202113A-04A	TO-15	o-Xylene	0.079 ppbv / 0.34 µg/m^3
1202113A-04A	TO-15	Styrene	0.084 ppbv / 0.36 µg/m^3
1202113A-04A	TO-15	Bromoform	0.094 ppbv / 0.97 µg/m^3
1202113A-04A	TO-15	1,1,2,2-Tetrachloroethane	0.098 ppbv / 0.67 µg/m^3
1202113A-04A	TO-15	Propylbenzene	0.11 ppbv / 0.54 µg/m^3
1202113A-04A	TO-15	4-Ethyltoluene	0.13 ppbv / 0.62 µg/m^3
1202113A-04A	TO-15	1,3,5-Trimethylbenzene	0.14 ppbv / 0.68 µg/m^3
1202113A-04A	TO-15	1,2,4-Trimethylbenzene	0.17 ppbv / 0.82 µg/m^3
1202113A-04A	TO-15	1,3-Dichlorobenzene	0.36 ppbv / 2.2 µg/m^3
1202113A-04A	TO-15	1,4-Dichlorobenzene	0.37 ppbv / 2.2 µg/m^3
1202113A-04A	TO-15	alpha-Chlorotoluene	0.22 ppbv / 1.2 µg/m^3
1202113A-04A	TO-15	1,2-Dichlorobenzene	0.32 ppbv / 1.9 µg/m^3
1202113A-04A	TO-15	1,2,4-Trichlorobenzene	1.2 ppbv / 9.1 µg/m^3
1202113A-04A	TO-15	Hexachlorobutadiene	0.76 ppbv / 8.1 µg/m^3
1202113B-04A	ASTM D-1945	Oxygen	0.015 %
1202113B-04A	ASTM D-1945	Nitrogen	0.071 %
1202113C-04A	TO-3	TPH (Gasoline range)	0.015 ppmv / 0.063 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-020112	TO-15	Methylene chloride	-	**U**
EXH-SVE-020112	TO-15	1,2-Dichloroethane	-	**U**
EXH-SVE-020112	TO-15	Trichloroethene	-	**U**
EXH-SVE-020112	TO-15	trans-1,3-Dichloropropene	-	**U**
EXH-SVE-020112	TO-15	1,2-Dibromoethane (EDB)	-	**U**
EXH-SVE-020112	TO-15	Propylbenzene	-	**U**
EXH-SVE-020112	TO-15	4-Ethyltoluene	-	**U**
EXH-SVE-020112	TO-15	1,3,5-Trimethylbenzene	-	**U**
EXH-SVE-020112	TO-15	1,2,4-Trimethylbenzene	-	**U**
EXH-SVE-020112	TO-15	1,3-Dichlorobenzene	-	**U**
EXH-SVE-020112	TO-15	1,4-Dichlorobenzene	-	**U**
EXH-SVE-020112	TO-15	alpha-Chlorotoluene	-	**U**
EXH-SVE-020112	TO-15	1,2-Dichlorobenzene	-	**U**
EXH-SVE-020112	TO-15	1,2,4-Trichlorobenzene	-	**U**
EXH-SVE-020212	TO-15	Methylene chloride	-	**U**
EXH-SVE-020212	TO-15	1,3,5-Trimethylbenzene	-	**U**
EXH-SVE-020212	TO-15	1,4-Dichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Air Toxics LTD.
Laboratory Services Since 1989

2/10/2012
Mr. Steve Shroff
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202113A

Dear Mr. Steve Shroff

The following report includes the data for the above referenced project for sample(s) received on 2/3/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Kelly Buettner
Project Manager

Reviewed on 3/2/2012

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202113A

Work Order Summary

CLIENT:	Mr. Steve Shroff URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/03/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/10/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-013112	Modified TO-15	1.0 "Hg	5 psi
02A	EXH-SVE-020112	Modified TO-15	12.5 "Hg	5 psi
03A	EXH-SVE-020212	Modified TO-15	5.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 02/10/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results eontained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD. SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1202113A

Three 1 Liter Summa Canister samples were received on February 03, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-020112 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Dilution was performed on samples EXH-SVE-013112 and EXH-SVE-020212 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	280	150 J	520	280 J
Acetone	280	350	660	830
2-Propanol	280	97 J	680	240 J
Carbon Disulfide	280	180 J	860	560 J
Methylene Chloride	70	74	240	260
Hexane	70	3000	240	11000
2-Butanone (Methyl Ethyl Ketone)	280	40 J	820	120 J
Cyclohexane	70	810	240	2800
2,2,4-Trimethylpentane	70	1700	320	8200
Benzene	70	170	220	530
Heptane	70	720	280	3000
Toluene	70	150	260	570
1,2-Dibromoethane (EDB)	70	16 J	530	120 J
Ethyl Benzene	70	34 J	300	150 J
m,p-Xylene	70	67 J	300	290 J
o-Xylene	70	16 J	300	72 J
Propylbenzene	70	9.9 J	340	48 J
1,3,5-Trimethylbenzene	70	12 J	340	57 J
1,2,4-Trimethylbenzene	70	21 J	340	100 J
1,3-Dichlorobenzene	70	18 J	420	110 J
1,4-Dichlorobenzene	70	24 J	420	140 J
alpha-Chlorotoluene	70	23 J	360	120 J
1,2-Dichlorobenzene	70	17 J	420	100 J
1,2,4-Trichlorobenzene	280	54 J	2100	400 J
Butane	280	14000	660	34000
Isopentane	280	21000	820	61000

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.26 J	5.7	1.3 J
Ethanol	4.6	8.7	8.7	16
Acetone	4.6	9.6	11	23
2-Propanol	4.6	1.2 J	11	3.1 J
Methylene Chloride	1.2	~~0.62 J~~ U	4.0	~~2.2 J~~ U
Hexane	1.2	9.4	4.0	33
2-Butanone (Methyl Ethyl Ketone)	4.6	1.3 J	14	3.9 J
Cyclohexane	1.2	2.7	4.0	9.3
2,2,4-Trimethylpentane	1.2	5.2	5.4	24
Benzene	1.2	6.0	3.7	19
1,2-Dichloroethane	1.2	~~0.27 J~~ U	4.6	~~1.1 J~~ U
Heptane	1.2	2.3	4.7	9.4
Trichloroethene	1.2	~~0.43 J~~ U	6.2	~~2.3 J~~ U
Bromodichloromethane	1.2	0.24 J	7.7	1.6 J
4-Methyl-2-pentanone	1.2	1.2	4.7	5.1
Toluene	1.2	1.2	4.3	4.7
trans-1,3-Dichloropropene	1.2	~~0.28 J~~ U	5.2	~~1.2 J~~ U
1,2-Dibromoethane (EDB)	1.2	~~0.19 J~~ U	8.8	~~1.5 J~~ U
Ethyl Benzene	1.2	0.58 J	5.0	2.5 J
m,p-Xylene	1.2	1.4	5.0	6.2
o-Xylene	1.2	0.42 J	5.0	1.8 J
Cumene	1.2	0.22 J	5.6	1.1 J
Propylbenzene	1.2	~~0.19 J~~ U	5.6	~~0.94 J~~ U
4-Ethyltoluene	1.2	~~0.50 J~~ U	5.6	~~2.4 J~~ U
1,3,5-Trimethylbenzene	1.2	~~0.23 J~~ U	5.6	~~1.2 J~~ U
1,2,4-Trimethylbenzene	1.2	~~0.50 J~~ U	5.6	~~2.5 J~~ U
1,3-Dichlorobenzene	1.2	~~0.37 J~~ U	6.9	~~2.2 J~~ U
1,4-Dichlorobenzene	1.2	~~0.53 J~~ U	6.9	~~3.2 J~~ U
alpha-Chlorotoluene	1.2	~~0.38 J~~ U	6.0	~~2.0 J~~ U
1,2-Dichlorobenzene	1.2	~~0.27 J~~ U	6.9	~~1.6 J~~ U
1,2,4-Trichlorobenzene	4.6	~~1.1 J~~ U	34	~~8.4 J~~ U
Butane	4.6	64	11	150

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113A-02A

Isopentane	4.6	72	14	210

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	6.4	10	12	19
Acetone	6.4	12	15	27
2-Propanol	6.4	0.83 J	16	2.0 J
Methylene Chloride	1.6	~~0.64 J~~ 4	5.6	~~2.2 J~~ 4
Hexane	1.6	53	5.7	190
2-Butanone (Methyl Ethyl Ketone)	6.4	1.2 J	19	3.4 J
Cyclohexane	1.6	23	5.5	78
2,2,4-Trimethylpentane	1.6	93	7.5	430
Benzene	1.6	25	5.1	81
Heptane	1.6	16	6.6	67
4-Methyl-2-pentanone	1.6	3.6	6.6	15
Toluene	1.6	3.8	6.1	14
Ethyl Benzene	1.6	2.4	7.0	11
m,p-Xylene	1.6	6.0	7.0	26
o-Xylene	1.6	1.2 J	7.0	5.1 J
Cumene	1.6	0.53 J	7.9	2.6 J
Propylbenzene	1.6	0.66 J	7.9	3.2 J
4-Ethyltoluene	1.6	0.74 J	7.9	3.6 J
1,3,5-Trimethylbenzene	1.6	~~0.66 J~~ 4	7.9	~~3.2 J~~ 4
1,2,4-Trimethylbenzene	1.6	1.0 J	7.9	5.1 J
1,4-Dichlorobenzene	1.6	~~0.30 J~~ 4	9.7	~~1.8 J~~ 4
Butane	6.4	250	15	590
Isopentane	6.4	270	19	810

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Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020910**	**Date of Collection:**	**1/31/12 4:25:00 PM**
Dil. Factor:	**139**	**Date of Analysis:**	**2/9/12 12:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	70	Not Detected	340	Not Detected
Freon 114	70	Not Detected	480	Not Detected
Chloromethane	280	Not Detected	570	Not Detected
Vinyl Chloride	70	Not Detected	180	Not Detected
1,3-Butadiene	70	Not Detected	150	Not Detected
Bromomethane	70	Not Detected	270	Not Detected
Chloroethane	280	Not Detected	730	Not Detected
Freon 11	70	Not Detected	390	Not Detected
Ethanol	280	150 J	520	280 J
Freon 113	70	Not Detected	530	Not Detected
1,1-Dichloroethene	70	Not Detected	280	Not Detected
Acetone	280	350	660	830
2-Propanol	280	97 J	680	240 J
Carbon Disulfide	280	180 J	860	560 J
3-Chloropropene	280	Not Detected	870	Not Detected
Methylene Chloride	70	74	240	260
Methyl tert-butyl ether	70	Not Detected	250	Not Detected
trans-1,2-Dichloroethene	70	Not Detected	280	Not Detected
Hexane	70	3000	240	11000
1,1-Dichloroethane	70	Not Detected	280	Not Detected
2-Butanone (Methyl Ethyl Ketone)	280	40 J	820	120 J
cis-1,2-Dichloroethene	70	Not Detected	280	Not Detected
Tetrahydrofuran	70	Not Detected	200	Not Detected
Chloroform	70	Not Detected	340	Not Detected
1,1,1-Trichloroethane	70	Not Detected	380	Not Detected
Cyclohexane	70	810	240	2800
Carbon Tetrachloride	70	Not Detected	440	Not Detected
2,2,4-Trimethylpentane	70	1700	320	8200
Benzene	70	170	220	530
1,2-Dichloroethane	70	Not Detected	280	Not Detected
Heptane	70	720	280	3000
Trichloroethene	70	Not Detected	370	Not Detected
1,2-Dichloropropane	70	Not Detected	320	Not Detected
1,4-Dioxane	280	Not Detected	1000	Not Detected
Bromodichloromethane	70	Not Detected	460	Not Detected
cis-1,3-Dichloropropene	70	Not Detected	320	Not Detected
4-Methyl-2-pentanone	70	Not Detected	280	Not Detected
Toluene	70	150	260	570
trans-1,3-Dichloropropene	70	Not Detected	320	Not Detected
1,1,2-Trichloroethane	70	Not Detected	380	Not Detected
Tetrachloroethene	70	Not Detected	470	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020910**	**Date of Collection: 1/31/12 4:25:00 PM**	
Dil. Factor:	**139**	**Date of Analysis: 2/9/12 12:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	280	Not Detected	1100	Not Detected
Dibromochloromethane	70	Not Detected	590	Not Detected
1,2-Dibromoethane (EDB)	70	16 J	530	120 J
Chlorobenzene	70	Not Detected	320	Not Detected
Ethyl Benzene	70	34 J	300	150 J
m,p-Xylene	70	67 J	300	290 J
o-Xylene	70	16 J	300	72 J
Styrene	70	Not Detected	300	Not Detected
Bromoform	70	Not Detected	720	Not Detected
Cumene	70	Not Detected	340	Not Detected
1,1,2,2-Tetrachloroethane	70	Not Detected	480	Not Detected
Propylbenzene	70	9.9 J	340	48 J
4-Ethyltoluene	70	Not Detected	340	Not Detected
1,3,5-Trimethylbenzene	70	12 J	340	57 J
1,2,4-Trimethylbenzene	70	21 J	340	100 J
1,3-Dichlorobenzene	70	18 J	420	110 J
1,4-Dichlorobenzene	70	24 J	420	140 J
alpha-Chlorotoluene	70	23 J	360	120 J
1,2-Dichlorobenzene	70	17 J	420	100 J
1,2,4-Trichlorobenzene	280	54 J	2100	400 J
Hexachlorobutadiene	280	Not Detected	3000	Not Detected
Butane	280	14000	660	34000
Isopentane	280	21000	820	61000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	113	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020908**	**Date of Collection:**	**2/1/12 3:30:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**2/9/12 12:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.26 J	5.7	1.3 J
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.5	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.5	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.6	8.7	8.7	16
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.6	9.6	11	23
2-Propanol	4.6	1.2 J	11	3.1 J
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.2	~~0.62 J~~ U	4.0	~~2.2 J~~ U
Methyl tert-butyl ether	1.2	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	9.4	4.0	33
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	1.3 J	14	3.9 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	2.7	4.0	9.3
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.2	5.2	5.4	24
Benzene	1.2	6.0	3.7	19
1,2-Dichloroethane	1.2	~~0.27 J~~ U	4.6	~~1.1 J~~ U
Heptane	1.2	2.3	4.7	9.4
Trichloroethene	1.2	~~0.43 J~~ U	6.2	~~2.3 J~~ U
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	0.24 J	7.7	1.6 J
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	1.2	4.7	5.1
Toluene	1.2	1.2	4.3	4.7
trans-1,3-Dichloropropene	1.2	~~0.26 J~~ U	5.2	~~1.2 J~~ U
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.8	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020908**	**Date of Collection:**	**2/1/12 3:30:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**2/9/12 12:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	~~0.19 J~~ U	8.8	~~1.5 J~~ U
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	0.58 J	5.0	2.5 J
m,p-Xylene	1.2	1.4	5.0	6.2
o-Xylene	1.2	0.42 J	5.0	1.8 J
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	0.22 J	5.6	1.1 J
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
Propylbenzene	1.2	~~0.19 J~~ U	5.6	~~0.94 J~~ U
4-Ethyltoluene	1.2	~~0.50 J~~ U	5.6	~~2.4 J~~ U
1,3,5-Trimethylbenzene	1.2	~~0.23 J~~ U	5.6	~~1.2 J~~ U
1,2,4-Trimethylbenzene	1.2	~~0.50 J~~ U	5.6	~~2.5 J~~ U
1,3-Dichlorobenzene	1.2	~~0.37 J~~ U	6.9	~~2.2 J~~ U
1,4-Dichlorobenzene	1.2	~~0.53 J~~ U	6.9	~~3.2 J~~ U
alpha-Chlorotoluene	1.2	~~0.38 J~~ U	6.0	~~2.0 J~~ U
1,2-Dichlorobenzene	1.2	~~0.27 J~~ U	6.9	~~1.6 J~~ U
1,2,4-Trichlorobenzene	4.6	~~1.1 J~~ U	34	~~8.4 J~~ U
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Butane	4.6	64	11	150
Isopentane	4.6	72	14	210

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020911**	**Date of Collection:**	**2/2/12 3:00:00 PM**
Dil. Factor:	**3.22**	**Date of Analysis:**	**2/9/12 12:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	8.0	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	6.4	Not Detected	13	Not Detected
Vinyl Chloride	1.6	Not Detected	4.1	Not Detected
1,3-Butadiene	1.6	Not Detected	3.6	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	6.4	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.0	Not Detected
Ethanol	6.4	10	12	19
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Acetone	6.4	12	15	27
2-Propanol	6.4	0.83 J	16	2.0 J
Carbon Disulfide	6.4	Not Detected	20	Not Detected
3-Chloropropene	6.4	Not Detected	20	Not Detected
Methylene Chloride	1.6	~~0.64 J~~ 4	5.6	~~2.2 J~~ 4
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Hexane	1.6	53	5.7	190
1,1-Dichloroethane	1.6	Not Detected	6.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.4	1.2 J	19	3.4 J
cis-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	1.6	Not Detected	7.9	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.8	Not Detected
Cyclohexane	1.6	23	5.5	78
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	93	7.5	430
Benzene	1.6	25	5.1	81
1,2-Dichloroethane	1.6	Not Detected	6.5	Not Detected
Heptane	1.6	16	6.6	67
Trichloroethene	1.6	Not Detected	8.6	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.4	Not Detected
1,4-Dioxane	6.4	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.3	Not Detected
4-Methyl-2-pentanone	1.6	3.6	6.6	15
Toluene	1.6	3.8	6.1	14
trans-1,3-Dichloropropene	1.6	Not Detected	7.3	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.8	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020911**	**Date of Collection:**	**2/2/12 3:00:00 PM**
Dil. Factor:	**3.22**	**Date of Analysis:**	**2/9/12 12:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	6.4	Not Detected	26	Not Detected
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.4	Not Detected
Ethyl Benzene	1.6	2.4	7.0	11
m,p-Xylene	1.6	6.0	7.0	26
o-Xylene	1.6	1.2 J	7.0	5.1 J
Styrene	1.6	Not Detected	6.8	Not Detected
Bromoform	1.6	Not Detected	17	Not Detected
Cumene	1.6	0.53 J	7.9	2.6 J
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	0.66 J	7.9	3.2 J
4-Ethyltoluene	1.6	0.74 J	7.9	3.6 J
1,3,5-Trimethylbenzene	1.6	~~0.66 J~~ U	7.9	~~3.2 J~~ U
1,2,4-Trimethylbenzene	1.6	1.0 J	7.9	5.1 J
1,3-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,4-Dichlorobenzene	1.6	~~0.30 J~~ U	9.7	~~1.8 J~~ U
alpha-Chlorotoluene	1.6	Not Detected	8.3	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,2,4-Trichlorobenzene	6.4	Not Detected	48	Not Detected
Hexachlorobutadiene	6.4	Not Detected	69	Not Detected
Butane	6.4	250	15	590
Isopentane	6.4	270	19	810

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202113A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 10:17 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	0.16 J	1.3	0.40 J
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.35 J	6.2	1.1 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.24 J	1.7	0.82 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	0.058 J	1.6	0.19 J
1,2-Dichloroethane	0.50	0.14 J	2.0	0.59 J
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	0.18 J	2.7	0.96 J
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.12 J	1.9	0.44 J
trans-1,3-Dichloropropene	0.50	0.22 J	2.3	1.0 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.11 J	3.4	0.76 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202113A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 10:17 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	0.076 J	4.2	0.64 J
1,2-Dibromoethane (EDB)	0.50	0.18 J	3.8	1.4 J
Chlorobenzene	0.50	0.17 J	2.3	0.78 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.13 J	2.2	0.56 J
o-Xylene	0.50	0.079 J	2.2	0.34 J
Styrene	0.50	0.084 J	2.1	0.36 J
Bromoform	0.50	0.094 J	5.2	0.97 J
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	0.098 J	3.4	0.67 J
Propylbenzene	0.50	0.11 J	2.4	0.54 J
4-Ethyltoluene	0.50	0.13 J	2.4	0.62 J
1,3,5-Trimethylbenzene	0.50	0.14 J	2.4	0.68 J
1,2,4-Trimethylbenzene	0.50	0.17 J	2.4	0.82 J
1,3-Dichlorobenzene	0.50	0.36 J	3.0	2.2 J
1,4-Dichlorobenzene	0.50	0.37 J	3.0	2.2 J
alpha-Chlorotoluene	0.50	0.22 J	2.6	1.2 J
1,2-Dichlorobenzene	0.50	0.32 J	3.0	1.9 J
1,2,4-Trichlorobenzene	2.0	1.2 J	15	9.1 J
Hexachlorobutadiene	2.0	0.76 J	21	8.1 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202113A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3020902	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/9/12 08:00 AM	

Compound	%Recovery
Freon 12	115
Freon 114	110
Chloromethane	78
Vinyl Chloride	95
1,3-Butadiene	91
Bromomethane	107
Chloroethane	95
Freon 11	114
Ethanol	96
Freon 113	104
1,1-Dichloroethene	103
Acetone	108
2-Propanol	95
Carbon Disulfide	101
3-Chloropropene	98
Methylene Chloride	100
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	103
Hexane	103
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	100
Tetrahydrofuran	97
Chloroform	108
1,1,1-Trichloroethane	107
Cyclohexane	106
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	100
Benzene	100
1,2-Dichloroethane	108
Heptane	108
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	99
Bromodichloromethane	113
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	105
Toluene	102
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	106
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202113A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 08:00 AM**	

Compound	%Recovery
2-Hexanone	110
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	108
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	108
Styrene	103
Bromoform	110
Cumene	114
1,1,2,2-Tetrachloroethane	106
Propylbenzene	111
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	110
Butane	84
Isopentane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202113A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 08:46 AM**	

Compound	%Recovery
Freon 12	122
Freon 114	113
Chloromethane	92
Vinyl Chloride	99
1,3-Butadiene	95
Bromomethane	105
Chloroethane	110
Freon 11	118
Ethanol	89
Freon 113	107
1,1-Dichloroethene	110
Acetone	105
2-Propanol	96
Carbon Disulfide	126
3-Chloropropene	116
Methylene Chloride	99
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	120
Hexane	104
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	101
Tetrahydrofuran	97
Chloroform	113
1,1,1-Trichloroethane	115
Cyclohexane	109
Carbon Tetrachloride	124
2,2,4-Trimethylpentane	103
Benzene	107
1,2-Dichloroethane	115
Heptane	114
Trichloroethene	111
1,2-Dichloropropane	110
1,4-Dioxane	108
Bromodichloromethane	119
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	108
Toluene	106
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	112
Tetrachloroethene	107

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202113A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 08:46 AM**	

Compound	%Recovery
2-Hexanone	117
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	113
Chlorobenzene	107
Ethyl Benzene	109
m,p-Xylene	110
o-Xylene	112
Styrene	112
Bromoform	113
Cumene	118
1,1,2,2-Tetrachloroethane	112
Propylbenzene	116
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	109
Butane	83
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202113A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 09:04 AM**	

Compound	%Recovery
Freon 12	126
Freon 114	114
Chloromethane	95
Vinyl Chloride	102
1,3-Butadiene	99
Bromomethane	109
Chloroethane	100
Freon 11	122
Ethanol	91
Freon 113	110
1,1-Dichloroethene	111
Acetone	110
2-Propanol	102
Carbon Disulfide	132
3-Chloropropene	120
Methylene Chloride	105
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	126
Hexane	107
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	105
Tetrahydrofuran	103
Chloroform	117
1,1,1-Trichloroethane	118
Cyclohexane	111
Carbon Tetrachloride	130
2,2,4-Trimethylpentane	107
Benzene	108
1,2-Dichloroethane	119
Heptane	117
Trichloroethene	111
1,2-Dichloropropane	113
1,4-Dioxane	109
Bromodichloromethane	122
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	111
Toluene	106
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	116
Tetrachloroethene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202113A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3020904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/12 09:04 AM**	

Compound	%Recovery
2-Hexanone	117
Dibromochloromethane	120
1,2-Dibromoethane (EDB)	116
Chlorobenzene	111
Ethyl Benzene	111
m,p-Xylene	112
o-Xylene	113
Styrene	115
Bromoform	117
Cumene	122
1,1,2,2-Tetrachloroethane	114
Propylbenzene	120
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	115
Butane	88
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	105	70-130

12-51-3

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV SERVICES): S T 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 6 1

DATE 2-Feb-12

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: elizabeth.kunkel@urs.com

CONSULTANT PROJECT NAME/#: Roxana SVE O&M

Laboratory Assigned: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (Print): J Holsapple, S.Wipfler

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane					Sample PID (ppm)
01	EXH-SVE-013112	01/31/12	1625	6907	-29.5	-1			X					
02	EXH-SVE-020112	02/01/12	1530	2104	-30	-16			X					
03	EXH-SVE-020212	02/02/12	1500	3532	-29.5	-6			X					

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FED EX
ACTY
IN NONE

Relinquished by (Signature)	Received by (Signature) FEDEX	Date 2/2/12	Time 1800
Relinquished by (Signature)	Received by (Signature)	Date 2/3/12	Time 09:35
Relinquished by (Signature)	Received by (Signature)	Date	Time

09/08 Revision

Air Toxics LTD.
Laboratory Services Since 1989

2/16/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202113B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/3/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

WORK ORDER #: 1202113B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/03/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/16/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-013112	Modified ASTM D-1945	1.0 "Hg	5 psi
02A	EXH-SVE-020112	Modified ASTM D-1945	12.5 "Hg	5 psi
03A	EXH-SVE-020212	Modified ASTM D-1945	5.0 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1945	NA	NA
04B	Lab Blank	Modified ASTM D-1945	NA	NA
05A	LCS	Modified ASTM D-1945	NA	NA
05AA	LCSD	Modified ASTM D-1945	NA	NA
05B	LCS	Modified ASTM D-1945	NA	NA
05BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 02/16/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1202113B

Three 1 Liter Summa Canister samples were received on February 03, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-020112 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound

hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.14	20
Nitrogen	0.14	79
Methane	0.00014	0.034
Carbon Dioxide	0.014	1.0
Ethene	0.0014	0.000058 J
Isobutane	0.0014	0.00022 J
Butane	0.0014	0.0018
Isopentane	0.0014	0.0023
Pentane	0.0014	0.00076 J
C6+	0.014	0.0034 J

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	80
Methane	0.00023	0.00018 J
Carbon Dioxide	0.023	0.27

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	78
Methane	0.00016	0.00075
Carbon Dioxide	0.016	0.56
Isopentane	0.0016	0.000034 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9020707**	**Date of Collection:**	**1/31/12 4:25:00 PM**
Dil. Factor:	**1.39**	**Date of Analysis:**	**2/7/12 08:13 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.14	20
Nitrogen	0.14	79
Carbon Monoxide	0.014	Not Detected
Methane	0.00014	0.034
Carbon Dioxide	0.014	1.0
Ethane	0.0014	Not Detected
Ethene	0.0014	0.000058 J
Acetylene	0.0014	Not Detected
Propane	0.0014	Not Detected
Isobutane	0.0014	0.00022 J
Butane	0.0014	0.0018
Neopentane	0.0014	Not Detected
Isopentane	0.0014	0.0023
Pentane	0.0014	0.00076 J
C6+	0.014	0.0034 J
Hydrogen	0.014	Not Detected

J = Estimated value.
Total BTU/Cu.F. = 0.69
Total Sp. Gravity = 1.0
Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9020708**	**Date of Collection:**	**2/1/12 3:30:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**2/7/12 08:43 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	80
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.00018 J
Carbon Dioxide	0.023	0.27
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Acetylene	0.0023	Not Detected
Propane	0.0023	Not Detected
Isobutane	0.0023	Not Detected
Butane	0.0023	Not Detected
Neopentane	0.0023	Not Detected
Isopentane	0.0023	Not Detected
Pentane	0.0023	Not Detected
C6+	0.023	Not Detected
Hydrogen	0.023	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.0018

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9020709	Date of Collection:	2/2/12 3:00:00 PM
Dil. Factor:	1.61	Date of Analysis:	2/7/12 09:15 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	78
Carbon Monoxide	0.016	Not Detected
Methane	0.00016	0.00075
Carbon Dioxide	0.016	0.56
Ethane	0.0016	Not Detected
Ethene	0.0016	Not Detected
Acetylene	0.0016	Not Detected
Propane	0.0016	Not Detected
Isobutane	0.0016	Not Detected
Butane	0.0016	Not Detected
Neopentane	0.0016	Not Detected
Isopentane	0.0016	0.000034 J
Pentane	0.0016	Not Detected
C6+	0.016	Not Detected
Hydrogen	0.016	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.0089

Total Sp. Gravity = 0.99

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202113B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9020706a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 06:53 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.015 J
Nitrogen	0.10	0.071 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202113B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9020705b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/7/12 06:21 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202113B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9020702	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/6/12 09:15 PM	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	101
Methane	99
Carbon Dioxide	102
Ethane	101
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	102
Neopentane	99
Isopentane	100
Pentane	100
C6+	98

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202113B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9020725**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 07:35 PM**

Compound	%Recovery
Oxygen	101
Nitrogen	102
Carbon Monoxide	103
Methane	101
Carbon Dioxide	102
Ethane	104
Ethene	102
Acetylene	98
Propane	98
Isobutane	104
Butane	104
Neopentane	102
Isopentane	102
Pentane	102
C6+	100

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: I202113B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9020704b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/6/12 09:58 PM

Compound	%Recovery
Hydrogen	103

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202113B-05BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9020726b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/7/12 07:57 PM	

Compound	%Recovery
Hydrogen	104

Container Type: NA - Not Applicable

1261_3

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 3 4 0 0 6 1
DATE: 2-Feb-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT E-MAIL: dave.palmer@urs.com
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME/#: Roxana SVE O&M
SAMPLER NAME(S) (Print): J. Holsapple, S. Wipfler

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane				Sample PID (ppm)
01A	EXH-SVE-013112	01/31/12	1615	6907	-29.5	-1			X				
02A	EXH-SVE-020112	02/01/12	1530	2104	-30	-16			X				
03A	EXH-SVE-020212	02/02/12	1500	3332	-29.5	-6			X				

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FED EX
CUSTODY SEAL ACCT
(Y) N NONE

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	2/2/12	1800
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	[illegible]	2/3/12	0935
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

09/30/05 Revision

Air Toxics LTD.
Laboratory Services Since 1989

2/16/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202113C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/3/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

WORK ORDER #: 1202113C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/03/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/16/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-013112	Modified TO-3	1.0 "Hg	5 psi
02A	EXH-SVE-020112	Modified TO-3	12.5 "Hg	5 psi
03A	EXH-SVE-020212	Modified TO-3	5.0 "Hg	5 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA
05AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 02/16/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1202113C

Three 1 Liter Summa Canister samples were received on February 03, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-020112 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations

that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.17	0.71	120	480

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.072	0.29	0.48	1.9

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.052	0.21	3.6	15

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-013112

Lab ID#: 1202113C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021307	Date of Collection:	1/31/12 4:25:00 PM
Dil. Factor:	6.95	Date of Analysis:	2/13/12 01:47 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.17	0.71	120	480

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	136	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020112

Lab ID#: 1202113C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021308	Date of Collection:	2/1/12 3:30:00 PM
Dil. Factor:	2.88	Date of Analysis:	2/13/12 02:58 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.072	0.29	0.48	1.9

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020212

Lab ID#: 1202113C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021309	Date of Collection:	2/2/12 3:00:00 PM
Dil. Factor:	2.09	Date of Analysis:	2/13/12 03:35 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.052	0.21	3.6	15

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	93	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202113C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021305a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/13/12 12:10 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	0.015 J	0.063 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: I202113C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021302	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/13/12 09:38 AM	

Compound	%Recovery
TPH (Gasoline Range)	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	86	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202113C-05AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d021318**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 10:06 PM**	

Compound	**%Recovery**
TPH (Gasoline Range)	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	88	75-150

16.81.3

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA S&LCH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV. SERVICES): 9 T 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 6 1

DATE 2-Feb-12

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: elizabeth.kunkel@urs.com

CONSULTANT PROJECT NAME/#: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (Print): J. Hoheppte, S. Wipfler

TELEPHONE: 314-429-0100

FAX: 314-429-0462

BILL TO CONTACT E-MAIL: daye.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush

Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane					Sample PID (ppm)
01	EXH-SVE-013112	01/31/12	1625	6907	-29.5	-1			X					
02	EXH-SVE-020112	02/01/12	1530	2104	-30	-16			X					
03	EXH-SVE-020212	02/02/12	1500	3532	-29.5	-6			X					

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FED EX
CUSTODY SEAL ACTY
Y N NONE NA

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	2/2/12	1800
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	[illegible]	2/3/12	0935
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

DG20E Revision

SVE System O&M 2012 Data Review

Laboratory SDG: 1202308A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 6/21/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-020712	EXH-SVE-020912
HEADER-SVE-020912	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample HEADER-SVE-020912 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated sample EXH-SVE-020912 was received by the laboratory with significant vacuum remaining in the canister; analytes were reported at elevated reporting levels and data was qualified as estimated due to the low volume of sample available for analyses.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1202308A-04A	TO-15	Carbon disulfide	0.30 ppbv / 0.94 µg/m^3
1202308A-04A	TO-15	Trichloroethene	0.14 ppbv / 0.74 µg/m^3
1202308A-04A	TO-15	Bromodichloromethane	0.075 ppbv / 0.50 µg/m^3
1202308A-04A	TO-15	1,2-Dibromoethane (EDB)	0.12 ppbv / 0.92 µg/m^3
1202308A-04A	TO-15	Chlorobenzene	0.10 ppbv / 0.47 µg/m^3
1202308A-04A	TO-15	1,1,2,2-Tetrachloroethane	0.090 ppbv / 0.62 µg/m^3
1202308A-04A	TO-15	4-Ethyltoluene	0.10 ppbv / 0.50 µg/m^3
1202308A-04A	TO-15	1,3,5-Trimethylbenzene	0.073 ppbv / 0.36 µg/m^3
1202308A-04A	TO-15	1,3-Dichlorobenzene	0.28 ppbv / 1.7 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1202308A-04A	TO-15	1,4-Dichlorobenzene	0.31 ppbv / 1.9 µg/m^3
1202308A-04A	TO-15	alpha-Chlorotoluene	0.18 ppbv / 0.91 µg/m^3
1202308A-04A	TO-15	1,2-Dichlorobenzene	0.28 ppbv / 1.7 µg/m^3
1202308A-04A	TO-15	1,2,4-Trichlorobenzene	1.0 ppbv / 7.8 µg/m^3
1202308A-04A	TO-15	Hexachlorobutadiene	0.86 ppbv / 9.2 µg/m^3
1202308B-04A	ASTM D-1945	Oxygen	0.027 %
1202308B-04A	ASTM D-1945	Nitrogen	0.099 %
1202308C-04A	TO-3	TPH (Gasoline range)	0.0096 ppmv / 0.039 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-020712	TO-15	Trichloroethene	-	**U**
EXH-SVE-020712	TO-15	4-Ethyltoluene	-	**U**
EXH-SVE-020712	TO-15	1,3,5-Trimethylbenzene	-	**U**
EXH-SVE-020712	TO-15	1,4-Dichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, sample EXH-SVE-020912 was received by the laboratory with significant vacuum remaining in the canister; analytes were reported at elevated reporting levels and data was qualified as estimated due to the small volume of sample available for analyses.

Sample ID	Parameter	Analyte	Qualification
EXH-SVE-020912	TO-15	Detects/non-detects	**J/UJ**
EXH-SVE-020912	ASTM D-1945	Detects/non-detects	**J/UJ**
EXH-SVE-020912	TO-3	Detects/non-detects	**J/UJ**

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2/28/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202308A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/14/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/21/2012

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WORK ORDER #: 1202308A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/14/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/28/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-020712	Modified TO-15	1.0 "Hg	5 psi
02A	EXH-SVE-020912	Modified TO-15	25.6 "Hg	5 psi
03A	HEADER-SVE-020912	Modified TO-15	5.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 02/28/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1202308A

Three 1 Liter Summa Canister samples were received on February 14, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample EXH-SVE-020912 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Dilution was performed on sample HEADER-SVE-020912 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	3.7	12	6.9	23
Acetone	3.7	9.8	8.7	23
2-Propanol	3.7	1.9 J	9.0	4.6 J
Methylene Chloride	0.92	1.5	3.2	5.1
Hexane	0.92	17	3.2	60
2-Butanone (Methyl Ethyl Ketone)	3.7	1.8 J	11	5.5 J
Cyclohexane	0.92	11	3.1	38
2,2,4-Trimethylpentane	0.92	26	4.3	120
Benzene	0.92	44	2.9	140
Heptane	0.92	7.0	3.7	29
Trichloroethene	0.92	~~0.35 J~~ U	4.9	~~1.9 J~~ U
4-Methyl-2-pentanone	0.92	3.2	3.7	13
Toluene	0.92	1.6	3.4	6.0
Ethyl Benzene	0.92	0.91 J	4.0	4.0 J
m,p-Xylene	0.92	2.0	4.0	8.6
o-Xylene	0.92	0.41 J	4.0	1.8 J
Cumene	0.92	0.32 J	4.5	1.6 J
Propylbenzene	0.92	0.28 J	4.5	1.4 J
4-Ethyltoluene	0.92	~~0.23 J~~ U	4.5	~~1.1 J~~ U
1,3,5-Trimethylbenzene	0.92	~~0.18 J~~ U	4.5	~~0.90 J~~ U
1,2,4-Trimethylbenzene	0.92	0.51 J	4.5	2.5 J
1,4-Dichlorobenzene	0.92	~~0.19 J~~ U	5.5	~~1.1 J~~ U
Butane	3.7	84	8.7	200
Isopentane	3.7	120	11	350

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	24	44 J	45	84 J
Acetone	24	27 J	56	64 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308A-02A

2-Propanol	24	5.2 J J	58	13 J J
Methylene Chloride	6.0	2.8 J J	21	9.7 J J
Hexane	6.0	12 J	21	43 J
2-Butanone (Methyl Ethyl Ketone)	24	3.2 J J	70	9.5 J J
Cyclohexane	6.0	3.7 J J	20	13 J J
2,2,4-Trimethylpentane	6.0	5.3 J J	28	25 J J
Benzene	6.0	150 J	19	480 J
Heptane	6.0	2.0 J J	24	8.0 J J
Bromodichloromethane	6.0	0.71 J J	40	4.8 J J
Toluene	6.0	1.9 J J	22	7.3 J J
Butane	24	120 J	56	290 J
Isopentane	24	140 J	70	400 J

Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	16000	610000	57000	2200000
Cyclohexane	16000	150000	55000	520000
2,2,4-Trimethylpentane	16000	350000	75000	1600000
Benzene	16000	40000	51000	130000
Heptane	16000	84000	66000	350000
Toluene	16000	38000	61000	140000
Butane	64000	4500000	150000	11000000
Isopentane	64000	5000000	190000	15000000

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Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3021514	Date of Collection:	2/7/12 3:10:00 PM
Dil. Factor:	1.83	Date of Analysis:	2/15/12 01:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Chloromethane	3.7	Not Detected	7.6	Not Detected
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Bromomethane	0.92	Not Detected	3.6	Not Detected
Chloroethane	3.7	Not Detected	9.6	Not Detected
Freon 11	0.92	Not Detected	5.1	Not Detected
Ethanol	3.7	12	6.9	23
Freon 113	0.92	Not Detected	7.0	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Acetone	3.7	9.8	8.7	23
2-Propanol	3.7	1.9 J	9.0	4.6 J
Carbon Disulfide	3.7	Not Detected	11	Not Detected
3-Chloropropene	3.7	Not Detected	11	Not Detected
Methylene Chloride	0.92	1.5	3.2	5.1
Methyl tert-butyl ether	0.92	Not Detected	3.3	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Hexane	0.92	17	3.2	60
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.7	1.8 J	11	5.5 J
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Tetrahydrofuran	0.92	Not Detected	2.7	Not Detected
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Cyclohexane	0.92	11	3.1	38
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
2,2,4-Trimethylpentane	0.92	26	4.3	120
Benzene	0.92	44	2.9	140
1,2-Dichloroethane	0.92	Not Detected	3.7	Not Detected
Heptane	0.92	7.0	3.7	29
Trichloroethene	0.92	~~0.35 J~~	4.9	~~1.9 J~~
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
Bromodichloromethane	0.92	Not Detected	6.1	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
4-Methyl-2-pentanone	0.92	3.2	3.7	13
Toluene	0.92	1.6	3.4	6.0
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected

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Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021514**	**Date of Collection:**	**2/7/12 3:10:00 PM**
Dil. Factor:	**1.83**	**Date of Analysis:**	**2/15/12 01:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Dibromochloromethane	0.92	Not Detected	7.8	Not Detected
1,2-Dibromoethane (EDB)	0.92	Not Detected	7.0	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	0.91 J	4.0	4.0 J
m,p-Xylene	0.92	2.0	4.0	8.6
o-Xylene	0.92	0.41 J	4.0	1.8 J
Styrene	0.92	Not Detected	3.9	Not Detected
Bromoform	0.92	Not Detected	9.4	Not Detected
Cumene	0.92	0.32 J	4.5	1.6 J
1,1,2,2-Tetrachloroethane	0.92	Not Detected	6.3	Not Detected
Propylbenzene	0.92	0.28 J	4.5	1.4 J
4-Ethyltoluene	0.92	~~0.23 J~~ U	4.5	~~1.1 J~~ U
1,3,5-Trimethylbenzene	0.92	~~0.18 J~~ U	4.5	~~0.90 J~~ U
1,2,4-Trimethylbenzene	0.92	0.51 J	4.5	2.5 J
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	~~0.19 J~~ U	5.5	~~1.1 J~~ U
alpha-Chlorotoluene	0.92	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
Hexachlorobutadiene	3.7	Not Detected	39	Not Detected
Butane	3.7	84	8.7	200
Isopentane	3.7	120	11	350

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021515**	**Date of Collection:**	**2/9/12 3:15:00 PM**
Dil. Factor:	**11.9**	**Date of Analysis:**	**2/15/12 02:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6.0	Not Detected UJ	29	Not Detected UJ
Freon 114	6.0	Not Detected UJ	42	Not Detected UJ
Chloromethane	24	Not Detected UJ	49	Not Detected UJ
Vinyl Chloride	6.0	Not Detected UJ	15	Not Detected UJ
1,3-Butadiene	6.0	Not Detected UJ	13	Not Detected UJ
Bromomethane	6.0	Not Detected UJ	23	Not Detected UJ
Chloroethane	24	Not Detected UJ	63	Not Detected UJ
Freon 11	6.0	Not Detected UJ	33	Not Detected UJ
Ethanol	24	44 J	45	84 J
Freon 113	6.0	Not Detected UJ	46	Not Detected UJ
1,1-Dichloroethene	6.0	Not Detected UJ	24	Not Detected UJ
Acetone	24	27 J	56	64 J
2-Propanol	24	5.2 J J	58	13 J J
Carbon Disulfide	24	Not Detected UJ	74	Not Detected UJ
3-Chloropropene	24	Not Detected UJ	74	Not Detected UJ
Methylene Chloride	6.0	2.8 J J	21	9.7 J J
Methyl tert-butyl ether	6.0	Not Detected UJ	21	Not Detected UJ
trans-1,2-Dichloroethene	6.0	Not Detected UJ	24	Not Detected UJ
Hexane	6.0	12 J	21	43 J
1,1-Dichloroethane	6.0	Not Detected UJ	24	Not Detected UJ
2-Butanone (Methyl Ethyl Ketone)	24	3.2 J J	70	9.5 J J
cis-1,2-Dichloroethene	6.0	Not Detected UJ	24	Not Detected UJ
Tetrahydrofuran	6.0	Not Detected UJ	18	Not Detected UJ
Chloroform	6.0	Not Detected UJ	29	Not Detected UJ
1,1,1-Trichloroethane	6.0	Not Detected UJ	32	Not Detected UJ
Cyclohexane	6.0	3.7 J J	20	13 J J
Carbon Tetrachloride	6.0	Not Detected UJ	37	Not Detected UJ
2,2,4-Trimethylpentane	6.0	5.3 J J	28	25 J J
Benzene	6.0	150 J	19	480 J
1,2-Dichloroethane	6.0	Not Detected UJ	24	Not Detected UJ
Heptane	6.0	2.0 J J	24	8.0 J J
Trichloroethene	6.0	Not Detected UJ	32	Not Detected UJ
1,2-Dichloropropane	6.0	Not Detected UJ	27	Not Detected UJ
1,4-Dioxane	24	Not Detected UJ	86	Not Detected UJ
Bromodichloromethane	6.0	0.71 J J	40	4.8 J J
cis-1,3-Dichloropropene	6.0	Not Detected UJ	27	Not Detected UJ
4-Methyl-2-pentanone	6.0	Not Detected UJ	24	Not Detected UJ
Toluene	6.0	1.9 J J	22	7.3 J J
trans-1,3-Dichloropropene	6.0	Not Detected UJ	27	Not Detected UJ
1,1,2-Trichloroethane	6.0	Not Detected UJ	32	Not Detected UJ

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Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021515**	**Date of Collection: 2/9/12 3:15:00 PM**	
Dil. Factor:	**11.9**	**Date of Analysis: 2/15/12 02:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	6.0	Not Detected	40	Not Detected
2-Hexanone	24	Not Detected	97	Not Detected
Dibromochloromethane	6.0	Not Detected	51	Not Detected
1,2-Dibromoethane (EDB)	6.0	Not Detected	46	Not Detected
Chlorobenzene	6.0	Not Detected	27	Not Detected
Ethyl Benzene	6.0	Not Detected	26	Not Detected
m,p-Xylene	6.0	Not Detected	26	Not Detected
o-Xylene	6.0	Not Detected	26	Not Detected
Styrene	6.0	Not Detected	25	Not Detected
Bromoform	6.0	Not Detected	62	Not Detected
Cumene	6.0	Not Detected	29	Not Detected
1,1,2,2-Tetrachloroethane	6.0	Not Detected	41	Not Detected
Propylbenzene	6.0	Not Detected	29	Not Detected
4-Ethyltoluene	6.0	Not Detected	29	Not Detected
1,3,5-Trimethylbenzene	6.0	Not Detected	29	Not Detected
1,2,4-Trimethylbenzene	6.0	Not Detected	29	Not Detected
1,3-Dichlorobenzene	6.0	Not Detected	36	Not Detected
1,4-Dichlorobenzene	6.0	Not Detected	36	Not Detected
alpha-Chlorotoluene	6.0	Not Detected	31	Not Detected
1,2-Dichlorobenzene	6.0	Not Detected	36	Not Detected
1,2,4-Trichlorobenzene	24	Not Detected	180	Not Detected
Hexachlorobutadiene	24	Not Detected	250	Not Detected
Butane	24	120	56	290
Isopentane	24	140	70	400

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021517**	**Date of Collection:**	**2/9/12 4:00:00 PM**
Dil. Factor:	**32200**	**Date of Analysis:**	**2/15/12 04:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16000	Not Detected	80000	Not Detected
Freon 114	16000	Not Detected	110000	Not Detected
Chloromethane	64000	Not Detected	130000	Not Detected
Vinyl Chloride	16000	Not Detected	41000	Not Detected
1,3-Butadiene	16000	Not Detected	36000	Not Detected
Bromomethane	16000	Not Detected	62000	Not Detected
Chloroethane	64000	Not Detected	170000	Not Detected
Freon 11	16000	Not Detected	90000	Not Detected
Ethanol	64000	Not Detected	120000	Not Detected
Freon 113	16000	Not Detected	120000	Not Detected
1,1-Dichloroethene	16000	Not Detected	64000	Not Detected
Acetone	64000	Not Detected	150000	Not Detected
2-Propanol	64000	Not Detected	160000	Not Detected
Carbon Disulfide	64000	Not Detected	200000	Not Detected
3-Chloropropene	64000	Not Detected	200000	Not Detected
Methylene Chloride	16000	Not Detected	56000	Not Detected
Methyl tert-butyl ether	16000	Not Detected	58000	Not Detected
trans-1,2-Dichloroethene	16000	Not Detected	64000	Not Detected
Hexane	16000	610000	57000	2200000
1,1-Dichloroethane	16000	Not Detected	65000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	64000	Not Detected	190000	Not Detected
cis-1,2-Dichloroethene	16000	Not Detected	64000	Not Detected
Tetrahydrofuran	16000	Not Detected	47000	Not Detected
Chloroform	16000	Not Detected	79000	Not Detected
1,1,1-Trichloroethane	16000	Not Detected	88000	Not Detected
Cyclohexane	16000	150000	55000	520000
Carbon Tetrachloride	16000	Not Detected	100000	Not Detected
2,2,4-Trimethylpentane	16000	350000	75000	1600000
Benzene	16000	40000	51000	130000
1,2-Dichloroethane	16000	Not Detected	65000	Not Detected
Heptane	16000	84000	66000	350000
Trichloroethene	16000	Not Detected	86000	Not Detected
1,2-Dichloropropane	16000	Not Detected	74000	Not Detected
1,4-Dioxane	64000	Not Detected	230000	Not Detected
Bromodichloromethane	16000	Not Detected	110000	Not Detected
cis-1,3-Dichloropropene	16000	Not Detected	73000	Not Detected
4-Methyl-2-pentanone	16000	Not Detected	66000	Not Detected
Toluene	16000	38000	61000	140000
trans-1,3-Dichloropropene	16000	Not Detected	73000	Not Detected
1,1,2-Trichloroethane	16000	Not Detected	88000	Not Detected

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Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021517**	**Date of Collection: 2/9/12 4:00:00 PM**	
Dil. Factor:	**32200**	**Date of Analysis: 2/15/12 04:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	16000	Not Detected	110000	Not Detected
2-Hexanone	64000	Not Detected	260000	Not Detected
Dibromochloromethane	16000	Not Detected	140000	Not Detected
1,2-Dibromoethane (EDB)	16000	Not Detected	120000	Not Detected
Chlorobenzene	16000	Not Detected	74000	Not Detected
Ethyl Benzene	16000	Not Detected	70000	Not Detected
m,p-Xylene	16000	Not Detected	70000	Not Detected
o-Xylene	16000	Not Detected	70000	Not Detected
Styrene	16000	Not Detected	68000	Not Detected
Bromoform	16000	Not Detected	170000	Not Detected
Cumene	16000	Not Detected	79000	Not Detected
1,1,2,2-Tetrachloroethane	16000	Not Detected	110000	Not Detected
Propylbenzene	16000	Not Detected	79000	Not Detected
4-Ethyltoluene	16000	Not Detected	79000	Not Detected
1,3,5-Trimethylbenzene	16000	Not Detected	79000	Not Detected
1,2,4-Trimethylbenzene	16000	Not Detected	79000	Not Detected
1,3-Dichlorobenzene	16000	Not Detected	97000	Not Detected
1,4-Dichlorobenzene	16000	Not Detected	97000	Not Detected
alpha-Chlorotoluene	16000	Not Detected	83000	Not Detected
1,2-Dichlorobenzene	16000	Not Detected	97000	Not Detected
1,2,4-Trichlorobenzene	64000	Not Detected	480000	Not Detected
Hexachlorobutadiene	64000	Not Detected	690000	Not Detected
Butane	64000	4500000	150000	11000000
Isopentane	64000	5000000	190000	15000000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1202308A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021506d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 09:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.30 J	6.2	0.94 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	0.14 J	2.7	0.74 J
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	0.075 J	3.4	0.50 J
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1202308A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021506d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 09:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.12 J	3.8	0.92 J
Chlorobenzene	0.50	0.10 J	2.3	0.47 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	0.090 J	3.4	0.62 J
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	0.10 J	2.4	0.50 J
1,3,5-Trimethylbenzene	0.50	0.073 J	2.4	0.36 J
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	0.28 J	3.0	1.7 J
1,4-Dichlorobenzene	0.50	0.31 J	3.0	1.9 J
alpha-Chlorotoluene	0.50	0.18 J	2.6	0.91 J
1,2-Dichlorobenzene	0.50	0.28 J	3.0	1.7 J
1,2,4-Trichlorobenzene	2.0	1.0 J	15	7.8 J
Hexachlorobutadiene	2.0	0.86 J	21	9.2 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: CCV
Lab ID#: 1202308A-05A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3021502	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:14 AM	

Compound	%Recovery
Freon 12	129
Freon 114	116
Chloromethane	77
Vinyl Chloride	98
1,3-Butadiene	94
Bromomethane	110
Chloroethane	95
Freon 11	130
Ethanol	99
Freon 113	110
1,1-Dichloroethene	101
Acetone	112
2-Propanol	96
Carbon Disulfide	103
3-Chloropropene	96
Methylene Chloride	106
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	105
Hexane	103
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	99
Tetrahydrofuran	101
Chloroform	118
1,1,1-Trichloroethane	119
Cyclohexane	108
Carbon Tetrachloride	126
2,2,4-Trimethylpentane	102
Benzene	103
1,2-Dichloroethane	123
Heptane	111
Trichloroethene	111
1,2-Dichloropropane	104
1,4-Dioxane	104
Bromodichloromethane	123
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	106
Toluene	104
trans-1,3-Dichloropropene	115
1,1,2-Trichloroethane	109

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Client Sample ID: CCV
Lab ID#: 1202308A-05A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3021502	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:14 AM	

Compound	%Recovery
Tetrachloroethene	107
2-Hexanone	108
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	111
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	104
o-Xylene	108
Styrene	101
Bromoform	119
Cumene	118
1,1,2,2-Tetrachloroethane	107
Propylbenzene	116
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	120
Butane	89
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS
Lab ID#: 1202308A-06A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 08:44 AM**	

Compound	%Recovery
Freon 12	130
Freon 114	115
Chloromethane	87
Vinyl Chloride	98
1,3-Butadiene	95
Bromomethane	108
Chloroethane	96
Freon 11	125
Ethanol	89
Freon 113	107
1,1-Dichloroethene	107
Acetone	104
2-Propanol	95
Carbon Disulfide	124
3-Chloropropene	115
Methylene Chloride	103
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	118
Hexane	100
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	101
Tetrahydrofuran	96
Chloroform	117
1,1,1-Trichloroethane	119
Cyclohexane	106
Carbon Tetrachloride	128
2,2,4-Trimethylpentane	103
Benzene	105
1,2-Dichloroethane	124
Heptane	112
Trichloroethene	112
1,2-Dichloropropane	109
1,4-Dioxane	103
Bromodichloromethane	126
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	107
Toluene	104
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	108

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Client Sample ID: LCS
Lab ID#: 1202308A-06A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 08:44 AM**	

Compound	%Recovery
Tetrachloroethene	104
2-Hexanone	109
Dibromochloromethane	120
1,2-Dibromoethane (EDB)	113
Chlorobenzene	104
Ethyl Benzene	103
m,p-Xylene	106
o-Xylene	107
Styrene	109
Bromoform	116
Cumene	117
1,1,2,2-Tetrachloroethane	108
Propylbenzene	115
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	117
Butane	81
Isopentane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1202308A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 09:01 AM**	

Compound	%Recovery
Freon 12	126
Freon 114	109
Chloromethane	85
Vinyl Chloride	94
1,3-Butadiene	91
Bromomethane	105
Chloroethane	92
Freon 11	122
Ethanol	82
Freon 113	104
1,1-Dichloroethene	102
Acetone	100
2-Propanol	95
Carbon Disulfide	122
3-Chloropropene	106
Methylene Chloride	100
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	118
Hexane	98
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	95
Tetrahydrofuran	96
Chloroform	115
1,1,1-Trichloroethane	115
Cyclohexane	103
Carbon Tetrachloride	126
2,2,4-Trimethylpentane	100
Benzene	104
1,2-Dichloroethane	122
Heptane	112
Trichloroethene	111
1,2-Dichloropropane	108
1,4-Dioxane	100
Bromodichloromethane	122
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	106
Toluene	103
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	111

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Client Sample ID: LCSD
Lab ID#: 1202308A-06AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3021504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/12 09:01 AM**	

Compound	%Recovery
Tetrachloroethene	109
2-Hexanone	112
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	113
Chlorobenzene	106
Ethyl Benzene	105
m,p-Xylene	108
o-Xylene	109
Styrene	111
Bromoform	115
Cumene	121
1,1,2,2-Tetrachloroethane	112
Propylbenzene	118
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	118
Butane	79
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	104	70-130

12193 08

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00D18
Lab Vendor #

Please Check Appropriate Box:
☑ ENV SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 13-Feb-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO:
E-MAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road Suite B, Folsom CA 95630-4719
SAMPLER NAME(S) (Print): J. Holsepple, S. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
CC TO (Correct E-MAIL): dave.palmer@urs.com

Elizabeth Kunkel, URS, St. Louis 314-743-4179

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentan	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
04	EXH-SVE-020712	2/7/12	1510	25281	-29	-2.5			X	X	X		
04	EXH-SVE-020912	2/9/12	1515	31769	-30	-19			X	X	X		
04	HEADER-SVE-020912	2/9/12	1600	36566	-29.5	-5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/13/12	1500
	J Hsu AIR 2/14/12		0925

CUSTODY SEAL INTACT? Y N NOT TEMP 2A
2/14/12

050303 Revision

Air Toxics LTD.
Laboratory Services Since 1989

2/27/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202308B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/14/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Kelly Buettner
Project Manager

Air Toxics LTD.
Laboratory Services Since 1980

WORK ORDER #: 1202308B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/14/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/27/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-020712	Modified ASTM D-1945	1.0 "Hg	5 psi
02A	EXH-SVE-020912	Modified ASTM D-1945	25.6 "Hg	5 psi
03A	HEADER-SVE-020912	Modified ASTM D-1945	5.0 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1945	NA	NA
04B	Lab Blank	Modified ASTM D-1945	NA	NA
05A	LCS	Modified ASTM D-1945	NA	NA
05AA	LCSD	Modified ASTM D-1945	NA	NA
05B	LCS	Modified ASTM D-1945	NA	NA
05BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 02/27/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 , (800) 985-5955 , FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1202308B

Three 1 Liter Summa Canister samples were received on February 14, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Sample EXH-SVE-020912 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound

hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.14	21
Nitrogen	0.14	78
Methane	0.00014	0.00045
Carbon Dioxide	0.014	0.57

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.91	15 J
Nitrogen	0.91	84 J
Methane	0.00091	0.00048 J J
Carbon Dioxide	0.091	0.45 J

Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	6.9
Nitrogen	0.16	71
Methane	0.00016	12
Carbon Dioxide	0.016	8.1
Ethane	0.0016	0.0032
Ethene	0.0016	0.000039 J
Propane	0.0016	0.0038
Isobutane	0.0016	0.069
Butane	0.0016	0.61
Neopentane	0.0016	0.0021
Isopentane	0.0016	0.60
Pentane	0.0016	0.19
C6+	0.016	0.79

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9021506**	**Date of Collection:**	**2/7/12 3:10:00 PM**
Dil. Factor:	**1.39**	**Date of Analysis:**	**2/15/12 10:38 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.14	21
Nitrogen	0.14	78
Carbon Monoxide	0.014	Not Detected
Methane	0.00014	0.00045
Carbon Dioxide	0.014	0.57
Ethane	0.0014	Not Detected
Ethene	0.0014	Not Detected
Acetylene	0.0014	Not Detected
Propane	0.0014	Not Detected
Isobutane	0.0014	Not Detected
Butane	0.0014	Not Detected
Neopentane	0.0014	Not Detected
Isopentane	0.0014	Not Detected
Pentane	0.0014	Not Detected
C6+	0.014	Not Detected
Hydrogen	0.014	Not Detected

Total BTU/Cu.F. = 0.0045
Total Sp. Gravity = 1.0
Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1988

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021507	Date of Collection:	2/9/12 3:15:00 PM
Dil. Factor:	9.14	Date of Analysis:	2/15/12 11:01 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.91	15
Nitrogen	0.91	84
Carbon Monoxide	0.091	Not Detected
Methane	0.00091	0.00048 J
Carbon Dioxide	0.091	0.45
Ethane	0.0091	Not Detected
Ethene	0.0091	Not Detected
Acetylene	0.0091	Not Detected
Propane	0.0091	Not Detected
Isobutane	0.0091	Not Detected
Butane	0.0091	Not Detected
Neopentane	0.0091	Not Detected
Isopentane	0.0091	Not Detected
Pentane	0.0091	Not Detected
C6+	0.091	Not Detected
Hydrogen	0.091	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.0048

Total Sp. Gravity = 0.98

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021508	Date of Collection:	2/9/12 4:00:00 PM
Dil. Factor:	1.61	Date of Analysis:	2/15/12 11:28 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	6.9
Nitrogen	0.16	71
Carbon Monoxide	0.016	Not Detected
Methane	0.00016	12
Carbon Dioxide	0.016	8.1
Ethane	0.0016	0.0032
Ethene	0.0016	0.000039 J
Acetylene	0.0016	Not Detected
Propane	0.0016	0.0038
Isobutane	0.0016	0.069
Butane	0.0016	0.61
Neopentane	0.0016	0.0021
Isopentane	0.0016	0.60
Pentane	0.0016	0.19
C6+	0.016	0.79
Hydrogen	0.016	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 210

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202308B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021505a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 10:00 AM	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.027 J
Nitrogen	0.10	0.099 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202308B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021504b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 09:21 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.
Laboratory Services Since 1980

Client Sample ID: LCS

Lab ID#: 1202308B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021502	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:27 AM	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	99
Carbon Dioxide	103
Ethane	101
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	101
Neopentane	99
Isopentane	100
Pentane	100
C6+	98

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202308B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021524	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:43 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	99
Carbon Dioxide	103
Ethane	102
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	102
Neopentane	99
Isopentane	100
Pentane	100
C6+	98

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202308B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021525b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 09:04 PM	

Compound	%Recovery
Hydrogen	104

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202308B-05BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9021526b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 09:25 PM	

Compound	%Recovery
Hydrogen	106

Container Type: NA - Not Applicable

12 03 08

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOAHCM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 13-Feb-12
SAP #: 3 4 0 0 6 1
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics LTD 180 Blue Ravine Road Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) Print): J. Holeppole, S. Wipfler

TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDF To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentar	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
CA	EXH-SVE-020712	2/7/12	1510	25281	-29	-2.5			X	X	X		
CA	EXH-SVE-020912	2/9/12	1515	31769	-30	-19			X	X	X		
CA	HEADER-SVE-020912	2/9/12	1600	36565	-29.5	-5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/13/12	1500
			0925

2/13/12

2/14/12

CUSTODY SEAL INTACT? Y N NOT TEMP 4

2/14/12

05/2008 Revision

Air Toxics LTD.
Laboratory Services Since 1989

2/27/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202308C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/14/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

WORK ORDER #: 1202308C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/14/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/27/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-020712	Modified TO-3	1.0 "Hg	5 psi
02A	EXH-SVE-020912	Modified TO-3	25.6 "Hg	5 psi
03A	HEADER-SVE-020912	Modified TO-3	5.0 "Hg	5 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA
05AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 02/27/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health. Scope of Application: Clean Air Act.
Accreditation number: E87680. Effective date: 07/01/11 . Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1202308C

Three 1 Liter Summa Canister samples were received on February 14, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample EXH-SVE-020912 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations

that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.035	0.14	1.8	7.2

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.23	0.93	1.3 J	5.2 J

Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	32	130	24000	99000

Air TOXICS LTD.
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Client Sample ID: EXH-SVE-020712

Lab ID#: 1202308C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021507	Date of Collection:	2/7/12 3:10:00 PM
Dil. Factor:	1.39	Date of Analysis:	2/15/12 12:27 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.035	0.14	1.8	7.2

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	91	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-020912

Lab ID#: 1202308C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021508	Date of Collection:	2/9/12 3:15:00 PM
Dil. Factor:	9.14	Date of Analysis:	2/15/12 01:26 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.23	0.93	1.3 J	5.2 J

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: HEADER-SVE-020912

Lab ID#: 1202308C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021510	Date of Collection:	2/9/12 4:00:00 PM
Dil. Factor:	1290	Date of Analysis:	2/15/12 03:38 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	32	130	24000	99000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	110	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202308C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021506c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 11:38 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	0.0096 J	0.039 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150

Air Toxics Ltd.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202308C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021502	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:49 AM	

Compound	%Recovery
TPH (Gasoline Range)	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	80	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202308C-05AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d021516	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/15/12 08:27 PM	

Compound	%Recovery
TPH (Gasoline Range)	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

1212308

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOBCM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 13-Feb-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road Suite B, Folsom CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDF To Contact E-MAIL: dave.palmer@urs.com
TRAVELER NAME(S) (Print): J. Holsapple, S. Wipfler

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentan	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
CA	EXH-SVE-020712	2/7/12	1510	25281	-29	-2.5			X	X	X		
CA	EXH-SVE-020912	2/9/12	1515	31769	-30	-19			X	X	X		
CA	HEADER-SVE-020912	2/9/12	1600	36566	-29.5	-5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/13/12	1500
	JH AR 2.14.12		0925

05/2002 Revision

CUSTODY SEAL INTACT? Y N NOT TEMP 4°
2.14.12

SVE System O&M 2012 Data Review

Laboratory SDG: 1202445A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 3/5/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-021412	EXH-SVE-021712
HEADER-SVE-021712	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample HEADER-SVE-021712 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in ASTM D-1945 and TO-3 method blanks. TO-15 CCV recovery for tetrahydrofuran was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated canister tag identification for sample EXH-SVE-021712 did not match COC designations; the sample was correctly logged in and data reported using COC information. Sample EXH-SVE-021712 was received by the laboratory with significant vacuum remaining in the canister; analytes were reported at elevated reporting levels and data was qualified as estimated due to the low volume of sample available for analyses.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1202308B-04A	ASTM D-1945	Oxygen	0.020 %
1202308B-04A	ASTM D-1945	Nitrogen	0.081 %
1202445C-04A	TO-3	TPH (Gasoline range)	0.019 ppmv / 0.078 µg/L
1202445C-04B	TO-3	TPH (Gasoline range)	0.014 ppmv / 0.056 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1202445A-05A	TO-15	Tetrahydrofuran	**131**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Yes, sample EXH-SVE-021712 was received by the laboratory with significant vacuum remaining in the canister; analytes were reported at elevated reporting levels and data was qualified as estimated due to the small volume of sample available for analyses.

Sample ID	Parameter	Analyte	Qualification
EXH-SVE-021712	TO-15	Detects/non-detects	**J/UJ**
EXH-SVE-021712	ASTM D-1945	Detects/non-detects	**J/UJ**

Sample ID	Parameter	Analyte	Qualification
EXH-SVE-021712	TO-3	Detects/non-detects	**J/UJ**

Air Toxics Ltd.
Laboratory Services Since 1989

3/3/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202445A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/21/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 3/5/2012

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202445A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/21/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/03/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-021412	Modified TO-15	8.5 "Hg	5 psi
02A	EXH-SVE-021712	Modified TO-15	18.5 "Hg	5 psi
03A	HEADER-SVE-021712	Modified TO-15	10.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 03/03/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1202445A

Three 1 Liter Summa Canister samples were received on February 21, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-021712 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Sample EXH-SVE-021712 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample HEADER-SVE-021712 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	37	21 J	70	40 J
Acetone	37	24 J	89	58 J
2-Propanol	37	3.1 J	92	7.6 J
Methylene Chloride	9.4	3.2 J	32	11 J
Hexane	9.4	1700	33	6000
2-Butanone (Methyl Ethyl Ketone)	37	5.1 J	110	15 J
Cyclohexane	9.4	320	32	1100
2,2,4-Trimethylpentane	9.4	680	44	3200
Benzene	9.4	200	30	640
Heptane	9.4	220	38	910
Toluene	9.4	34	35	130
Ethyl Benzene	9.4	10	40	44
m,p-Xylene	9.4	17	41	72
o-Xylene	9.4	3.0 J	41	13 J
4-Ethyltoluene	9.4	1.3 J	46	6.4 J
Butane	37	4500	89	11000
Isopentane	37	9000	110	27000

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	70	300	130	560
Acetone	70	110	170	260
2-Propanol	70	40 J	170	99 J
Hexane	18	1600	62	5800
2-Butanone (Methyl Ethyl Ketone)	70	46 J	210	140 J
Cyclohexane	18	1000	60	3500
2,2,4-Trimethylpentane	18	5000	82	23000
Benzene	18	1000	56	3200
Heptane	18	370	72	1500

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445A-02A

Toluene	18	59	66	220
Ethyl Benzene	18	49	76	210
m,p-Xylene	18	96	76	420
o-Xylene	18	22	76	97
Cumene	18	4.3 J	86	21 J
Propylbenzene	18	3.9 J	86	19 J
4-Ethyltoluene	18	7.0 J	86	34 J
1,3,5-Trimethylbenzene	18	3.0 J	86	15 J
1,2,4-Trimethylbenzene	70	3.8 J	340	19 J
Butane	70	2900	170	6900
Isopentane	70	5000	210	15000

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	8400	2300 J	29000	8200 J
Hexane	8400	1000000	30000	3600000
Cyclohexane	8400	160000	29000	570000
2,2,4-Trimethylpentane	8400	410000	39000	1900000
Benzene	8400	54000	27000	170000
Heptane	8400	91000	34000	370000
Toluene	8400	10000	32000	40000
Ethyl Benzene	8400	1500 J	36000	6400 J
m,p-Xylene	8400	2200 J	36000	9500 J
Butane	34000	3600000	80000	8600000
Isopentane	34000	6600000	99000	19000000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445A-01A

EPA METHOD TO-15 GC/MS

File Name:	14022718	Date of Collection:	2/14/12 3:30:00 PM
Dil. Factor:	1.87	Date of Analysis:	2/27/12 08:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.4	Not Detected	46	Not Detected
Freon 114	9.4	Not Detected	65	Not Detected
Chloromethane	37	Not Detected	77	Not Detected
Vinyl Chloride	9.4	Not Detected	24	Not Detected
1,3-Butadiene	9.4	Not Detected	21	Not Detected
Bromomethane	9.4	Not Detected	36	Not Detected
Chloroethane	37	Not Detected	99	Not Detected
Freon 11	9.4	Not Detected	52	Not Detected
Ethanol	37	21 J	70	40 J
Freon 113	9.4	Not Detected	72	Not Detected
1,1-Dichloroethene	9.4	Not Detected	37	Not Detected
Acetone	37	24 J	89	58 J
2-Propanol	37	3.1 J	92	7.6 J
Carbon Disulfide	9.4	Not Detected	29	Not Detected
3-Chloropropene	37	Not Detected	120	Not Detected
Methylene Chloride	9.4	3.2 J	32	11 J
Methyl tert-butyl ether	9.4	Not Detected	34	Not Detected
trans-1,2-Dichloroethene	9.4	Not Detected	37	Not Detected
Hexane	9.4	1700	33	6000
1,1-Dichloroethane	9.4	Not Detected	38	Not Detected
2-Butanone (Methyl Ethyl Ketone)	37	5.1 J	110	15 J
cis-1,2-Dichloroethene	9.4	Not Detected	37	Not Detected
Tetrahydrofuran	9.4	Not Detected	28	Not Detected
Chloroform	9.4	Not Detected	46	Not Detected
1,1,1-Trichloroethane	9.4	Not Detected	51	Not Detected
Cyclohexane	9.4	320	32	1100
Carbon Tetrachloride	9.4	Not Detected	59	Not Detected
2,2,4-Trimethylpentane	9.4	680	44	3200
Benzene	9.4	200	30	640
1,2-Dichloroethane	9.4	Not Detected	38	Not Detected
Heptane	9.4	220	38	910
Trichloroethene	9.4	Not Detected	50	Not Detected
1,2-Dichloropropane	9.4	Not Detected	43	Not Detected
1,4-Dioxane	37	Not Detected	130	Not Detected
Bromodichloromethane	9.4	Not Detected	63	Not Detected
cis-1,3-Dichloropropene	9.4	Not Detected	42	Not Detected
4-Methyl-2-pentanone	9.4	Not Detected	38	Not Detected
Toluene	9.4	34	35	130
trans-1,3-Dichloropropene	9.4	Not Detected	42	Not Detected
1,1,2-Trichloroethane	9.4	Not Detected	51	Not Detected
Tetrachloroethene	9.4	Not Detected	63	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445A-01A

EPA METHOD TO-15 GC/MS

File Name:	14022718	Date of Collection:	2/14/12 3:30:00 PM
Dil. Factor:	1.87	Date of Analysis:	2/27/12 08:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	37	Not Detected	150	Not Detected
Dibromochloromethane	9.4	Not Detected	80	Not Detected
1,2-Dibromoethane (EDB)	9.4	Not Detected	72	Not Detected
Chlorobenzene	9.4	Not Detected	43	Not Detected
Ethyl Benzene	9.4	10	40	44
m,p-Xylene	9.4	17	41	72
o-Xylene	9.4	3.0 J	41	13 J
Styrene	9.4	Not Detected	40	Not Detected
Bromoform	37	Not Detected	390	Not Detected
Cumene	9.4	Not Detected	46	Not Detected
1,1,2,2-Tetrachloroethane	9.4	Not Detected	64	Not Detected
Propylbenzene	9.4	Not Detected	46	Not Detected
4-Ethyltoluene	9.4	1.3 J	46	6.4 J
1,3,5-Trimethylbenzene	9.4	Not Detected	46	Not Detected
1,2,4-Trimethylbenzene	37	Not Detected	180	Not Detected
1,3-Dichlorobenzene	9.4	Not Detected	56	Not Detected
1,4-Dichlorobenzene	9.4	Not Detected	56	Not Detected
alpha-Chlorotoluene	37	Not Detected	190	Not Detected
1,2-Dichlorobenzene	9.4	Not Detected	56	Not Detected
1,2,4-Trichlorobenzene	37	Not Detected	280	Not Detected
Hexachlorobutadiene	37	Not Detected	400	Not Detected
Butane	37	4500	89	11000
Isopentane	37	9000	110	27000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445A-02A

EPA METHOD TO-15 GC/MS

File Name:	14022720	Date of Collection:	2/17/12 3:36:00 PM
Dil. Factor:	3.50	Date of Analysis:	2/27/12 09:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	18	Not Detected UJ	86	Not Detected UJ
Freon 114	18	Not Detected	120	Not Detected
Chloromethane	70	Not Detected	140	Not Detected
Vinyl Chloride	18	Not Detected	45	Not Detected
1,3-Butadiene	18	Not Detected	39	Not Detected
Bromomethane	18	Not Detected	68	Not Detected
Chloroethane	70	Not Detected	180	Not Detected
Freon 11	18	Not Detected	98	Not Detected
Ethanol	70	300 J	130	560 J
Freon 113	18	Not Detected UJ	130	Not Detected UJ
1,1-Dichloroethene	18	Not Detected UJ	69	Not Detected UJ
Acetone	70	110 J	170	260 J
2-Propanol	70	40 J J	170	99 J J
Carbon Disulfide	18	Not Detected UJ	54	Not Detected UJ
3-Chloropropene	70	Not Detected	220	Not Detected
Methylene Chloride	18	Not Detected	61	Not Detected
Methyl tert-butyl ether	18	Not Detected	63	Not Detected
trans-1,2-Dichloroethene	18	Not Detected	69	Not Detected
Hexane	18	1600 J	62	5800 J
1,1-Dichloroethane	18	Not Detected UJ	71	Not Detected UJ
2-Butanone (Methyl Ethyl Ketone)	70	46 J J	210	140 J J
cis-1,2-Dichloroethene	18	Not Detected UJ	69	Not Detected UJ
Tetrahydrofuran	18	Not Detected	52	Not Detected
Chloroform	18	Not Detected	85	Not Detected
1,1,1-Trichloroethane	18	Not Detected	95	Not Detected
Cyclohexane	18	1000 J	60	3500 J
Carbon Tetrachloride	18	Not Detected UJ	110	Not Detected UJ
2,2,4-Trimethylpentane	18	5000 J	82	23000 J
Benzene	18	1000 J	56	3200 J
1,2-Dichloroethane	18	Not Detected UJ	71	Not Detected UJ
Heptane	18	370 J	72	1500 J
Trichloroethene	18	Not Detected UJ	94	Not Detected UJ
1,2-Dichloropropane	18	Not Detected	81	Not Detected
1,4-Dioxane	70	Not Detected	250	Not Detected
Bromodichloromethane	18	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	18	Not Detected	79	Not Detected
4-Methyl-2-pentanone	18	Not Detected	72	Not Detected
Toluene	18	59 J	66	220 J
trans-1,3-Dichloropropene	18	Not Detected UJ	79	Not Detected UJ
1,1,2-Trichloroethane	18	Not Detected	95	Not Detected
Tetrachloroethene	18	Not Detected	120	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445A-02A

EPA METHOD TO-15 GC/MS

File Name:	14022720	Date of Collection:	2/17/12 3:36:00 PM
Dil. Factor:	3.50	Date of Analysis:	2/27/12 09:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	70	Not Detected UJ	290	Not Detected UJ
Dibromochloromethane	18	Not Detected	150	Not Detected
1,2-Dibromoethane (EDB)	18	Not Detected	130	Not Detected
Chlorobenzene	18	Not Detected	80	Not Detected
Ethyl Benzene	18	49 J	76	210 J
m,p-Xylene	18	96 J	76	420 J
o-Xylene	18	22 J	76	97 J
Styrene	18	Not Detected UJ	74	Not Detected UJ
Bromoform	70	Not Detected UJ	720	Not Detected UJ
Cumene	18	4.3 J J	86	21 J J
1,1,2,2-Tetrachloroethane	18	Not Detected	120	Not Detected UJ
Propylbenzene	18	3.9 J J	86	19 J J
4-Ethyltoluene	18	7.0 J	86	34 J
1,3,5-Trimethylbenzene	18	3.0 J	86	15 J
1,2,4-Trimethylbenzene	70	3.8 J	340	19 J
1,3-Dichlorobenzene	18	Not Detected UJ	100	Not Detected UJ
1,4-Dichlorobenzene	18	Not Detected	100	Not Detected
alpha-Chlorotoluene	70	Not Detected	360	Not Detected
1,2-Dichlorobenzene	18	Not Detected	100	Not Detected
1,2,4-Trichlorobenzene	70	Not Detected	520	Not Detected
Hexachlorobutadiene	70	Not Detected	750	Not Detected
Butane	70	2900 J	170	6900 J
Isopentane	70	5000 J	210	15000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1980

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445A-03A

EPA METHOD TO-15 GC/MS

File Name:	14022722	Date of Collection:	2/17/12 3:48:00 PM
Dil. Factor:	1680	Date of Analysis:	2/27/12 10:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8400	Not Detected	42000	Not Detected
Freon 114	8400	Not Detected	59000	Not Detected
Chloromethane	34000	Not Detected	69000	Not Detected
Vinyl Chloride	8400	Not Detected	21000	Not Detected
1,3-Butadiene	8400	Not Detected	18000	Not Detected
Bromomethane	8400	Not Detected	33000	Not Detected
Chloroethane	34000	Not Detected	89000	Not Detected
Freon 11	8400	Not Detected	47000	Not Detected
Ethanol	34000	Not Detected	63000	Not Detected
Freon 113	8400	Not Detected	64000	Not Detected
1,1-Dichloroethene	8400	Not Detected	33000	Not Detected
Acetone	34000	Not Detected	80000	Not Detected
2-Propanol	34000	Not Detected	82000	Not Detected
Carbon Disulfide	8400	Not Detected	26000	Not Detected
3-Chloropropene	34000	Not Detected	100000	Not Detected
Methylene Chloride	8400	2300 J	29000	8200 J
Methyl tert-butyl ether	8400	Not Detected	30000	Not Detected
trans-1,2-Dichloroethene	8400	Not Detected	33000	Not Detected
Hexane	8400	1000000	30000	3600000
1,1-Dichloroethane	8400	Not Detected	34000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34000	Not Detected	99000	Not Detected
cis-1,2-Dichloroethene	8400	Not Detected	33000	Not Detected
Tetrahydrofuran	8400	Not Detected	25000	Not Detected
Chloroform	8400	Not Detected	41000	Not Detected
1,1,1-Trichloroethane	8400	Not Detected	46000	Not Detected
Cyclohexane	8400	160000	29000	570000
Carbon Tetrachloride	8400	Not Detected	53000	Not Detected
2,2,4-Trimethylpentane	8400	410000	39000	1900000
Benzene	8400	54000	27000	170000
1,2-Dichloroethane	8400	Not Detected	34000	Not Detected
Heptane	8400	91000	34000	370000
Trichloroethene	8400	Not Detected	45000	Not Detected
1,2-Dichloropropane	8400	Not Detected	39000	Not Detected
1,4-Dioxane	34000	Not Detected	120000	Not Detected
Bromodichloromethane	8400	Not Detected	56000	Not Detected
cis-1,3-Dichloropropene	8400	Not Detected	38000	Not Detected
4-Methyl-2-pentanone	8400	Not Detected	34000	Not Detected
Toluene	8400	10000	32000	40000
trans-1,3-Dichloropropene	8400	Not Detected	38000	Not Detected
1,1,2-Trichloroethane	8400	Not Detected	46000	Not Detected
Tetrachloroethene	8400	Not Detected	57000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445A-03A

EPA METHOD TO-15 GC/MS

File Name:	14022722	Date of Collection:	2/17/12 3:48:00 PM
Dil. Factor:	1680	Date of Analysis:	2/27/12 10:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	34000	Not Detected	140000	Not Detected
Dibromochloromethane	8400	Not Detected	72000	Not Detected
1,2-Dibromoethane (EDB)	8400	Not Detected	64000	Not Detected
Chlorobenzene	8400	Not Detected	39000	Not Detected
Ethyl Benzene	8400	1500 J	36000	6400 J
m,p-Xylene	8400	2200 J	36000	9500 J
o-Xylene	8400	Not Detected	36000	Not Detected
Styrene	8400	Not Detected	36000	Not Detected
Bromoform	34000	Not Detected	350000	Not Detected
Cumene	8400	Not Detected	41000	Not Detected
1,1,2,2-Tetrachloroethane	8400	Not Detected	58000	Not Detected
Propylbenzene	8400	Not Detected	41000	Not Detected
4-Ethyltoluene	8400	Not Detected	41000	Not Detected
1,3,5-Trimethylbenzene	8400	Not Detected	41000	Not Detected
1,2,4-Trimethylbenzene	34000	Not Detected	160000	Not Detected
1,3-Dichlorobenzene	8400	Not Detected	50000	Not Detected
1,4-Dichlorobenzene	8400	Not Detected	50000	Not Detected
alpha-Chlorotoluene	34000	Not Detected	170000	Not Detected
1,2-Dichlorobenzene	8400	Not Detected	50000	Not Detected
1,2,4-Trichlorobenzene	34000	Not Detected	250000	Not Detected
Hexachlorobutadiene	34000	Not Detected	360000	Not Detected
Butane	34000	3600000	80000	8600000
Isopentane	34000	6600000	99000	19000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202445A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14022705a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/27/12 01:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics Ltd.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202445A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022705a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 01:21 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	20	Not Detected	210	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	20	Not Detected	98	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202445A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022702	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 10:28 AM	

Compound	%Recovery
Freon 12	110
Freon 114	94
Chloromethane	108
Vinyl Chloride	85
1,3-Butadiene	90
Bromomethane	104
Chloroethane	109
Freon 11	102
Ethanol	129
Freon 113	90
1,1-Dichloroethene	115
Acetone	117
2-Propanol	116
Carbon Disulfide	96
3-Chloropropene	92
Methylene Chloride	118
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	97
Hexane	122
1,1-Dichloroethane	109
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	113
Tetrahydrofuran	131 Q
Chloroform	103
1,1,1-Trichloroethane	102
Cyclohexane	102
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	122
Benzene	99
1,2-Dichloroethane	102
Heptane	103
Trichloroethene	95
1,2-Dichloropropane	106
1,4-Dioxane	92
Bromodichloromethane	99
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	102
Toluene	96
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	100
Tetrachloroethene	93

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202445A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022702	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 10:28 AM	

Compound	%Recovery
2-Hexanone	113
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	99
Chlorobenzene	96
Ethyl Benzene	100
m,p-Xylene	98
o-Xylene	101
Styrene	103
Bromoform	97
Cumene	105
1,1,2,2-Tetrachloroethane	108
Propylbenzene	105
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	110
Butane	84
Isopentane	125

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202445A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022703	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 11:03 AM	

Compound	%Recovery
Freon 12	115
Freon 114	98
Chloromethane	115
Vinyl Chloride	88
1,3-Butadiene	96
Bromomethane	105
Chloroethane	110
Freon 11	105
Ethanol	127
Freon 113	92
1,1-Dichloroethene	124
Acetone	116
2-Propanol	122
Carbon Disulfide	122
3-Chloropropene	108
Methylene Chloride	120
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	114
Hexane	124
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	116
Tetrahydrofuran	125
Chloroform	106
1,1,1-Trichloroethane	106
Cyclohexane	105
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	122
Benzene	105
1,2-Dichloroethane	108
Heptane	106
Trichloroethene	102
1,2-Dichloropropane	113
1,4-Dioxane	94
Bromodichloromethane	106
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	105
Toluene	99
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	102
Tetrachloroethene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202445A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022703	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 11:03 AM	

Compound	%Recovery
2-Hexanone	114
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	103
Chlorobenzene	100
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	103
Styrene	110
Bromoform	97
Cumene	109
1,1,2,2-Tetrachloroethane	112
Propylbenzene	109
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	107
Butane	85
Isopentane	128

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1988

Client Sample ID: LCSD

Lab ID#: 1202445A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022704	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 11:38 AM	

Compound	%Recovery
Freon 12	116
Freon 114	98
Chloromethane	117
Vinyl Chloride	90
1,3-Butadiene	96
Bromomethane	107
Chloroethane	113
Freon 11	106
Ethanol	130
Freon 113	94
1,1-Dichloroethene	128
Acetone	118
2-Propanol	123
Carbon Disulfide	123
3-Chloropropene	112
Methylene Chloride	123
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	113
Hexane	126
1,1-Dichloroethane	113
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	117
Tetrahydrofuran	125
Chloroform	108
1,1,1-Trichloroethane	107
Cyclohexane	106
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	124
Benzene	104
1,2-Dichloroethane	107
Heptane	105
Trichloroethene	101
1,2-Dichloropropane	112
1,4-Dioxane	91
Bromodichloromethane	105
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	105
Toluene	98
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	102
Tetrachloroethene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202445A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14022704	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/27/12 11:38 AM	

Compound	%Recovery
2-Hexanone	112
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	104
Chlorobenzene	99
Ethyl Benzene	101
m,p-Xylene	102
o-Xylene	104
Styrene	110
Bromoform	98
Cumene	108
1,1,2,2-Tetrachloroethane	113
Propylbenzene	110
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	110
Butane	86
Isopentane	130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	95	70-130

1202445

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 20-Feb-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
PROJ. MANAGER (Deliverable To) (Print) / PHONE NO / E-MAIL / CONSULTANT PROJECT NAME
Elizabeth Kunkel, URS, St Louis / 314-743-4179 / Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): J. Holsapple, B. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO Contact E-MAIL: dave.pesher@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	EXH-SVE-021412	2/14/12	1530	36570	-29.5	-9			X	X	X		
02	EXH-SVE-021712	2/17/12	1536	11829	-29	-3			X	X	X		
03	HEADER-SVE-021712	2/17/12	1548	35627	-26	-10			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/20/12	1700
Relinquished by (Signature)	Received by (Signature)	Date	Time
	2.21.12 0850	2.21.12	0850
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2008 Revision

To dz

CUSTODY SEAL INTACT? Y N NA

eurofins

Air Toxics

3/6/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202445B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/21/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

eurofins

Air Toxics

WORK ORDER #: 1202445B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/21/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/06/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-021412	Modified ASTM D-1945	8.5 "Hg	5 psi
02A	EXH-SVE-021712	Modified ASTM D-1945	18.5 "Hg	5 psi
03A	HEADER-SVE-021712	Modified ASTM D-1945	10.0 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1945	NA	NA
04B	Lab Blank	Modified ASTM D-1945	NA	NA
05A	LCS	Modified ASTM D-1945	NA	NA
05AA	LCSD	Modified ASTM D-1945	NA	NA
05B	LCS	Modified ASTM D-1945	NA	NA
05BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 03/06/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1202445B

Three 1 Liter Summa Canister samples were received on February 21, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-021712 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Sample EXH-SVE-021712 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Methane	0.00019	0.010
Carbon Dioxide	0.019	1.1
Isobutane	0.0019	0.000068 J
Butane	0.0019	0.00054 J
Isopentane	0.0019	0.00071 J
Pentane	0.0019	0.00031 J
C6+	0.019	0.00096 J

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.35	19
Nitrogen	0.35	80
Methane	0.00035	0.0013
Carbon Dioxide	0.035	1.0
Butane	0.0035	0.00035 J
Isopentane	0.0035	0.00038 J
Pentane	0.0035	0.00015 J
C6+	0.035	0.0025 J

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	8.1
Nitrogen	0.20	74
Methane	0.00020	8.5
Carbon Dioxide	0.020	7.0
Ethane	0.0020	0.0024
Propane	0.0020	0.0034

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445B-03A

Isobutane	0.0020	0.059
Butane	0.0020	0.45
Neopentane	0.0020	0.0019 J
Isopentane	0.0020	0.57
Pentane	0.0020	0.22
C6+	0.020	0.90

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Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022206	Date of Collection:	2/14/12 3:30:00 PM
Dil. Factor:	1.87	Date of Analysis:	2/22/12 10:58 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.010
Carbon Dioxide	0.019	1.1
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	0.000068 J
Butane	0.0019	0.00054 J
Neopentane	0.0019	Not Detected
Isopentane	0.0019	0.00071 J
Pentane	0.0019	0.00031 J
C6+	0.019	0.00096 J
Hydrogen	0.019	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.21

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Air Toxics

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022207	Date of Collection:	2/17/12 3:36:00 PM
Dil. Factor:	3.50	Date of Analysis:	2/22/12 11:21 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.35	19 J
Nitrogen	0.35	80 J
Carbon Monoxide	0.035	Not Detected UJ
Methane	0.00035	0.0013 J
Carbon Dioxide	0.035	1.0 J
Ethane	0.0035	Not Detected UJ
Ethene	0.0035	Not Detected
Acetylene	0.0035	Not Detected
Propane	0.0035	Not Detected
Isobutane	0.0035	Not Detected
Butane	0.0035	0.00035 J J
Neopentane	0.0035	Not Detected UJ
Isopentane	0.0035	0.00038 J J
Pentane	0.0035	0.00015 J J
C6+	0.035	0.0025 J J
Hydrogen	0.035	Not Detected UJ

J = Estimated value.

Total BTU/Cu.F. = 0.16

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Air Toxics

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022208	Date of Collection:	2/17/12 3:48:00 PM
Dil. Factor:	2.01	Date of Analysis:	2/22/12 11:56 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	8.1
Nitrogen	0.20	74
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	8.5
Carbon Dioxide	0.020	7.0
Ethane	0.0020	0.0024
Ethene	0.0020	Not Detected
Acetylene	0.0020	Not Detected
Propane	0.0020	0.0034
Isobutane	0.0020	0.059
Butane	0.0020	0.45
Neopentane	0.0020	0.0019 J
Isopentane	0.0020	0.57
Pentane	0.0020	0.22
C6+	0.020	0.90
Hydrogen	0.020	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 180

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1202445B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9022205a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/22/12 10:28 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.020 J
Nitrogen	0.10	0.081 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1202445B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022204b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 09:59 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Air Toxics

Client Sample ID: LCS

Lab ID#: 1202445B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022202	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 08:41 AM	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	101
Methane	99
Carbon Dioxide	102
Ethane	101
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	101
Neopentane	99
Isopentane	100
Pentane	99
C6+	98

Container Type: NA - Not Applicable

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Air Toxics

Client Sample ID: LCSD

Lab ID#: 1202445B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022227	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 09:20 PM	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	100
Ethane	100
Ethene	99
Acetylene	95
Propane	95
Isobutane	101
Butane	100
Neopentane	98
Isopentane	99
Pentane	98
C6+	98

Container Type: NA - Not Applicable

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Air Toxics

Client Sample ID: LCS

Lab ID#: 1202445B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022228b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 09:55 PM	

Compound	%Recovery
Hydrogen	111

Container Type: NA - Not Applicable

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Air Toxics

Client Sample ID: LCSD

Lab ID#: 1202445B-05BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9022229b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 10:16 PM	

Compound	%Recovery
Hydrogen	113

Container Type: NA - Not Applicable

1202445

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 20-Feb-12
PAGE 1 of 1
PO #
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): J. Hetsopple, S. Whipler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	EXH-SVE-021412	2/14/12	1530	36570	-29.5	-9			X	X	X		
02	EXH-SVE-021712	2/17/12	1536	11829	-29	-3			X	X	X		
03	HEADER-SVE-021712	2/17/12	1548	35627	-26	-10			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

2/20/12

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/20/12	1700
Relinquished by (Signature)	Received by (Signature) 2.21.12 0850	2.21.12	0850
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2009 Revision

To 0'Z+

CUSTODY SEAL INTACT? Y N N/A

Air Toxics LTD.
Laboratory Services Since 1989

2/28/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1202445C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 2/21/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202445C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	02/21/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/28/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-021412	Modified TO-3	8.5 "Hg	5 psi
02A	EXH-SVE-021712	Modified TO-3	18.5 "Hg	5 psi
03A	HEADER-SVE-021712	Modified TO-3	10.0 "Hg	5 psi
04A	Lab Blank	Modified TO-3	NA	NA
04B	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA
05AA	LCSD	Modified TO-3	NA	NA
05B	LCS	Modified TO-3	NA	NA
05BB	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 02/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1202445C

Three 1 Liter Summa Canister samples were received on February 21, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

The Chain of Custody (COC) information for sample EXH-SVE-021712 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Sample EXH-SVE-021712 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.094	0.38	44	180

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.35	1.4	100 J	430 J

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	50	200	24000	97000

Air Toxics LTD.
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Client Sample ID: EXH-SVE-021412

Lab ID#: 1202445C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d022214	Date of Collection:	2/14/12 3:30:00 PM
Dil. Factor:	3.74	Date of Analysis:	2/22/12 06:31 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.094	0.38	44	180

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	115	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: EXH-SVE-021712

Lab ID#: 1202445C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d022215	Date of Collection:	2/17/12 3:36:00 PM
Dil. Factor:	14.0	Date of Analysis:	2/22/12 07:14 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.35	1.4	100 J	430 J

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	93	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: HEADER-SVE-021712

Lab ID#: 1202445C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d022414	Date of Collection:	2/17/12 3:48:00 PM
Dil. Factor:	2010	Date of Analysis:	2/24/12 07:02 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	50	200	24000	97000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	103	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202445C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d022203a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/22/12 10:06 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	0.019 J	0.078 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	89	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: I202445C-04B

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d022406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/24/12 11:56 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	0.014 J	0.056 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	86	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202445C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d022202	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/22/12 09:18 AM	

Compound	%Recovery
TPH (Gasoline Range)	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202445C-05AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d022219**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/22/12 10:19 PM**	

Compound	%Recovery
TPH (Gasoline Range)	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202445C-05B

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d022403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/24/12 09:44 AM**	

Compound	%Recovery
TPH (Gasoline Range)	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	91	75-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202445C-05BB

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d022415**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/24/12 08:16 PM**	

Compound	%Recovery
TPH (Gasoline Range)	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	86	75-150

1202445

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOACM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Meoshegian
PO: #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 20-Feb-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LAB CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300: ST. LOUIS, MO 63110
FOR DELIVERABLE TO: Name, Company, Office Location: Elizabeth Kunkel, URS, St Louis
PHONE NO: 314-743-4179
E-MAIL:
CONSULTAN PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): J. Holsapple, B. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO Contact E-MAIL: Jaye.Palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh) TPHg		Sample PID (ppm)
01	EXH-SVE-021412	2/14/12	1530	36570	-29.5	-9			X	X	X		
02	EXH-SVE-021712	2/17/12	1536	11829	-29	-3			X	X	X		
03	HEADER-SVE-021712	2/17/12	1548	35627	-26	-10			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

2/20/12

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/20/12	1700
Relinquished by (Signature)	Received by (Signature) John Ait 2.21.12 0830	2.21.12	0830
Relinquished by (Signature)	Received by (Signature)	Date	Time

To Lab

CUSTODY SEAL INTACT? Y N NA

Shipping Receipt

SVE System O&M 2012 Data Review

Laboratory SDG: 1203050A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 4/4/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-022112	EXH-SVE-022412
EXH-SVE-022712	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated canister tag identification for sample EXH-SVE-022712 did not match COC designations; the sample was correctly logged in and data reported using canister tag ID information.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1203050A-04A	TO-15	Bromomethane	0.26 ppbv / 1.0 µg/m^3
1203050A-04A	TO-15	Carbon disulfide	0.43 ppbv / 1.3 µg/m^3
1203050A-04A	TO-15	Methylene chloride	0.15 ppbv / 0.53 µg/m^3
1203050A-04A	TO-15	1,3,5-Trimethylbenzene	0.075 ppbv / 0.37 µg/m^3
1203050A-04A	TO-15	1,4-Dichlorobenzene	0.16 ppbv / 0.99 µg/m^3
1203050A-04A	TO-15	1,2,4-Trichlorobenzene	0.52 ppbv / 3.9 µg/m^3
1203050B-04A	ASTM D-1945	Oxygen	0.0072 %
1203050B-04A	ASTM D-1945	Nitrogen	0.032 %
1203050C-04A	TO-3	TPH (C2-C10)	0.016 ppmv / 0.065 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-022412	TO-15	Carbon disulfide	-	**U**
EXH-SVE-022412	TO-15	Methylene chloride	-	**U**
EXH-SVE-022712	TO-15	Carbon disulfide	-	**U**
EXH-SVE-022712	TO-15	Methylene chloride	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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3/17/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203050A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 4/4/2012

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WORK ORDER #: 1203050A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-022112	Modified TO-15	7.5 "Hg	5 psi
02A	EXH-SVE-022412	Modified TO-15	9.5 "Hg	5 psi
03A	EXH-SVE-022712	Modified TO-15	9.5 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 03/17/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act.
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1203050A

Three 1 Liter Summa Canister samples were received on March 02, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample EHX-SVE-022712 did not match the entry on the sample tag (EXH-SVE-022712) with regard to sample identification. The information on the sample tag was used to process and report the sample.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Dilution was performed on all of the samples due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	900	260 J	2100	620 J
2-Propanol	360	92 J	880	230 J
Carbon Disulfide	360	110 J	1100	350 J
Hexane	90	19000	320	66000
Cyclohexane	90	6400	310	22000
2,2,4-Trimethylpentane	90	18000	420	83000
Benzene	90	2600	280	8400
Heptane	90	6600	370	27000
Toluene	90	1900	340	7000
Ethyl Benzene	90	760	390	3300
m,p-Xylene	90	1400	390	6000
o-Xylene	90	230	390	1000
Styrene	90	28 J	380	120 J
Cumene	90	44 J	440	220 J
Propylbenzene	90	75 J	440	370 J
4-Ethyltoluene	90	55 J	440	270 J
1,3,5-Trimethylbenzene	90	50 J	440	250 J
1,2,4-Trimethylbenzene	90	72 J	440	360 J
Butane	360	11000	850	27000
Isopentane	360	29000	1000	85000

Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.8	24	15	45
Acetone	20	18 J	46	44 J
2-Propanol	7.8	4.3 J	19	10 J
Carbon Disulfide	7.8	~~1.2 J~~ U	24	~~3.7 J~~ U
Methylene Chloride	20	~~0.57 J~~ U	68	~~2.0 J~~ U
Hexane	2.0	120	6.9	430
2-Butanone (Methyl Ethyl Ketone)	7.8	6.0 J	23	18 J
Cyclohexane	2.0	74	6.7	250

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050A-02A

2,2,4-Trimethylpentane	2.0	240	9.2	1100
Benzene	2.0	210	6.3	670
Heptane	2.0	44	8.0	180
4-Methyl-2-pentanone	2.0	5.3	8.0	22
Toluene	2.0	15	7.4	57
Ethyl Benzene	2.0	3.6	8.5	15
m,p-Xylene	2.0	15	8.5	65
o-Xylene	2.0	3.8	8.5	17
Cumene	2.0	0.49 J	9.6	2.4 J
Propylbenzene	2.0	0.32 J	9.6	1.6 J
4-Ethyltoluene	2.0	1.6 J	9.6	8.1 J
1,3,5-Trimethylbenzene	2.0	1.1 J	9.6	5.6 J
1,2,4-Trimethylbenzene	2.0	3.2	9.6	16
Butane	7.8	150	19	360
Isopentane	7.8	430	23	1300

Client Sample ID: EXH-SVE-022712

Lab ID#: 1203050A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.8	55	15	100
Acetone	20	49	46	120
2-Propanol	7.8	8.9	19	22
Carbon Disulfide	7.8	~~1.1 J~~ U	24	~~3.4 J~~ U
Methylene Chloride	20	~~0.49 J~~ U	68	~~1.7 J~~ U
Hexane	2.0	88	6.9	310
2-Butanone (Methyl Ethyl Ketone)	7.8	30	23	89
Cyclohexane	2.0	29	6.7	100
2,2,4-Trimethylpentane	2.0	77	9.2	360
Benzene	2.0	460	6.3	1500
Heptane	2.0	29	8.0	120
4-Methyl-2-pentanone	2.0	13	8.0	54
Toluene	2.0	5.9	7.4	22
2-Hexanone	7.8	2.9 J	32	12 J
Ethyl Benzene	2.0	1.8 J	8.5	7.6 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-022712

Lab ID#: 1203050A-03A

m,p-Xylene	2.0	3.0	8.5	13
o-Xylene	2.0	0.78 J	8.5	3.4 J
Cumene	2.0	2.2	9.6	11
4-Ethyltoluene	2.0	0.50 J	9.6	2.5 J
Butane	7.8	130	19	300
Isopentane	7.8	250	23	740

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Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030421**	**Date of Collection:**	**2/21/12 3:30:00 PM**
Dil. Factor:	**179**	**Date of Analysis:**	**3/4/12 05:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	90	Not Detected	440	Not Detected
Freon 114	90	Not Detected	620	Not Detected
Chloromethane	900	Not Detected	1800	Not Detected
Vinyl Chloride	90	Not Detected	230	Not Detected
1,3-Butadiene	90	Not Detected	200	Not Detected
Bromomethane	900	Not Detected	3500	Not Detected
Chloroethane	360	Not Detected	940	Not Detected
Freon 11	90	Not Detected	500	Not Detected
Ethanol	360	Not Detected	670	Not Detected
Freon 113	90	Not Detected	680	Not Detected
1,1-Dichloroethene	90	Not Detected	350	Not Detected
Acetone	900	260 J	2100	620 J
2-Propanol	360	92 J	880	230 J
Carbon Disulfide	360	110 J	1100	350 J
3-Chloropropene	360	Not Detected	1100	Not Detected
Methylene Chloride	900	Not Detected	3100	Not Detected
Methyl tert-butyl ether	90	Not Detected	320	Not Detected
trans-1,2-Dichloroethene	90	Not Detected	350	Not Detected
Hexane	90	19000	320	66000
1,1-Dichloroethane	90	Not Detected	360	Not Detected
2-Butanone (Methyl Ethyl Ketone)	360	Not Detected	1000	Not Detected
cis-1,2-Dichloroethene	90	Not Detected	350	Not Detected
Tetrahydrofuran	90	Not Detected	260	Not Detected
Chloroform	90	Not Detected	440	Not Detected
1,1,1-Trichloroethane	90	Not Detected	490	Not Detected
Cyclohexane	90	6400	310	22000
Carbon Tetrachloride	90	Not Detected	560	Not Detected
2,2,4-Trimethylpentane	90	18000	420	83000
Benzene	90	2600	280	8400
1,2-Dichloroethane	90	Not Detected	360	Not Detected
Heptane	90	6600	370	27000
Trichloroethene	90	Not Detected	480	Not Detected
1,2-Dichloropropane	90	Not Detected	410	Not Detected
1,4-Dioxane	360	Not Detected	1300	Not Detected
Bromodichloromethane	90	Not Detected	600	Not Detected
cis-1,3-Dichloropropene	90	Not Detected	410	Not Detected
4-Methyl-2-pentanone	90	Not Detected	370	Not Detected
Toluene	90	1900	340	7000
trans-1,3-Dichloropropene	90	Not Detected	410	Not Detected
1,1,2-Trichloroethane	90	Not Detected	490	Not Detected
Tetrachloroethene	90	Not Detected	610	Not Detected
2-Hexanone	360	Not Detected	1500	Not Detected

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Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030421**	**Date of Collection: 2/21/12 3:30:00 PM**	
Dil. Factor:	**179**	**Date of Analysis: 3/4/12 05:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	90	Not Detected	760	Not Detected
1,2-Dibromoethane (EDB)	90	Not Detected	690	Not Detected
Chlorobenzene	90	Not Detected	410	Not Detected
Ethyl Benzene	90	760	390	3300
m,p-Xylene	90	1400	390	6000
o-Xylene	90	230	390	1000
Styrene	90	28 J	380	120 J
Bromoform	90	Not Detected	920	Not Detected
Cumene	90	44 J	440	220 J
1,1,2,2-Tetrachloroethane	90	Not Detected	610	Not Detected
Propylbenzene	90	75 J	440	370 J
4-Ethyltoluene	90	55 J	440	270 J
1,3,5-Trimethylbenzene	90	50 J	440	250 J
1,2,4-Trimethylbenzene	90	72 J	440	360 J
1,3-Dichlorobenzene	90	Not Detected	540	Not Detected
1,4-Dichlorobenzene	90	Not Detected	540	Not Detected
alpha-Chlorotoluene	90	Not Detected	460	Not Detected
1,2-Dichlorobenzene	90	Not Detected	540	Not Detected
1,2,4-Trichlorobenzene	360	Not Detected	2600	Not Detected
Hexachlorobutadiene	360	Not Detected	3800	Not Detected
Butane	360	11000	850	27000
Isopentane	360	29000	1000	85000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030422**	**Date of Collection:**	**2/24/12 11:30:00 AM**
Dil. Factor:	**3.92**	**Date of Analysis:**	**3/4/12 06:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	Not Detected	9.7	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	20	Not Detected	40	Not Detected
Vinyl Chloride	2.0	Not Detected	5.0	Not Detected
1,3-Butadiene	2.0	Not Detected	4.3	Not Detected
Bromomethane	20	Not Detected	76	Not Detected
Chloroethane	7.8	Not Detected	21	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	7.8	24	15	45
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Acetone	20	18 J	46	44 J
2-Propanol	7.8	4.3 J	19	10 J
Carbon Disulfide	7.8	~~1.2 J~~ U	24	~~3.7 J~~ U
3-Chloropropene	7.8	Not Detected	24	Not Detected
Methylene Chloride	20	~~0.57 J~~ U	68	~~2.0 J~~ U
Methyl tert-butyl ether	2.0	Not Detected	7.1	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Hexane	2.0	120	6.9	430
1,1-Dichloroethane	2.0	Not Detected	7.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.8	6.0 J	23	18 J
cis-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.8	Not Detected
Chloroform	2.0	Not Detected	9.6	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	74	6.7	250
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	240	9.2	1100
Benzene	2.0	210	6.3	670
1,2-Dichloroethane	2.0	Not Detected	7.9	Not Detected
Heptane	2.0	44	8.0	180
Trichloroethene	2.0	Not Detected	10	Not Detected
1,2-Dichloropropane	2.0	Not Detected	9.0	Not Detected
1,4-Dioxane	7.8	Not Detected	28	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
4-Methyl-2-pentanone	2.0	5.3	8.0	22
Toluene	2.0	15	7.4	57
trans-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	13	Not Detected
2-Hexanone	7.8	Not Detected	32	Not Detected

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Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030422**	**Date of Collection: 2/24/12 11:30:00 AM**	
Dil. Factor:	**3.92**	**Date of Analysis: 3/4/12 06:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.0	Not Detected
Ethyl Benzene	2.0	3.6	8.5	15
m,p-Xylene	2.0	15	8.5	65
o-Xylene	2.0	3.8	8.5	17
Styrene	2.0	Not Detected	8.3	Not Detected
Bromoform	2.0	Not Detected	20	Not Detected
Cumene	2.0	0.49 J	9.6	2.4 J
1,1,2,2-Tetrachloroethane	2.0	Not Detected	13	Not Detected
Propylbenzene	2.0	0.32 J	9.6	1.6 J
4-Ethyltoluene	2.0	1.6 J	9.6	8.1 J
1,3,5-Trimethylbenzene	2.0	1.1 J	9.6	5.6 J
1,2,4-Trimethylbenzene	2.0	3.2	9.6	16
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	7.8	Not Detected	58	Not Detected
Hexachlorobutadiene	7.8	Not Detected	84	Not Detected
Butane	7.8	150	19	360
Isopentane	7.8	430	23	1300

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: EXH-SVE-022712

Lab ID#: 1203050A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p030423	Date of Collection:	2/27/12 2:00:00 PM
Dil. Factor:	3.92	Date of Analysis:	3/4/12 06:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	Not Detected	9.7	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	20	Not Detected	40	Not Detected
Vinyl Chloride	2.0	Not Detected	5.0	Not Detected
1,3-Butadiene	2.0	Not Detected	4.3	Not Detected
Bromomethane	20	Not Detected	76	Not Detected
Chloroethane	7.8	Not Detected	21	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	7.8	55	15	100
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Acetone	20	49	46	120
2-Propanol	7.8	8.9	19	22
Carbon Disulfide	7.8	~~1.1 J~~ U	24	~~3.4 J~~ U
3-Chloropropene	7.8	Not Detected U	24	Not Detected
Methylene Chloride	20	~~0.49 J~~ U	68	~~1.7 J~~ U
Methyl tert-butyl ether	2.0	Not Detected	7.1	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Hexane	2.0	88	6.9	310
1,1-Dichloroethane	2.0	Not Detected	7.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.8	30	23	89
cis-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.8	Not Detected
Chloroform	2.0	Not Detected	9.6	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	29	6.7	100
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	77	9.2	360
Benzene	2.0	460	6.3	1500
1,2-Dichloroethane	2.0	Not Detected	7.9	Not Detected
Heptane	2.0	29	8.0	120
Trichloroethene	2.0	Not Detected	10	Not Detected
1,2-Dichloropropane	2.0	Not Detected	9.0	Not Detected
1,4-Dioxane	7.8	Not Detected	28	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
4-Methyl-2-pentanone	2.0	13	8.0	54
Toluene	2.0	5.9	7.4	22
trans-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	13	Not Detected
2-Hexanone	7.8	2.9 J	32	12 J

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Client Sample ID: EXH-SVE-022712

Lab ID#: 1203050A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030423**	**Date of Collection:**	**2/27/12 2:00:00 PM**
Dil. Factor:	**3.92**	**Date of Analysis:**	**3/4/12 06:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.0	Not Detected
Ethyl Benzene	2.0	1.8 J	8.5	7.6 J
m,p-Xylene	2.0	3.0	8.5	13
o-Xylene	2.0	0.78 J	8.5	3.4 J
Styrene	2.0	Not Detected	8.3	Not Detected
Bromoform	2.0	Not Detected	20	Not Detected
Cumene	2.0	2.2	9.6	11
1,1,2,2-Tetrachloroethane	2.0	Not Detected	13	Not Detected
Propylbenzene	2.0	Not Detected	9.6	Not Detected
4-Ethyltoluene	2.0	0.50 J	9.6	2.5 J
1,3,5-Trimethylbenzene	2.0	Not Detected	9.6	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.6	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	7.8	Not Detected	58	Not Detected
Hexachlorobutadiene	7.8	Not Detected	84	Not Detected
Butane	7.8	130	19	300
Isopentane	7.8	250	23	740

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203050A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p030408c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/4/12 11:13 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	0.26 J	19	1.0 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.43 J	6.2	1.3 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.15 J	17	0.53 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203050A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030408c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 11:13 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.075 J	2.4	0.37 J
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	0.16 J	3.0	0.99 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.52 J	15	3.9 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1203050A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 08:51 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	96
Chloromethane	108
Vinyl Chloride	90
1,3-Butadiene	90
Bromomethane	95
Chloroethane	91
Freon 11	106
Ethanol	98
Freon 113	96
1,1-Dichloroethene	94
Acetone	95
2-Propanol	92
Carbon Disulfide	92
3-Chloropropene	92
Methylene Chloride	92
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	93
Hexane	96
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	93
Tetrahydrofuran	90
Chloroform	95
1,1,1-Trichloroethane	98
Cyclohexane	95
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	94
Benzene	91
1,2-Dichloroethane	100
Heptane	96
Trichloroethene	95
1,2-Dichloropropane	88
1,4-Dioxane	95
Bromodichloromethane	95
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	90
Toluene	91
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	88
Tetrachloroethene	91
2-Hexanone	95

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Air Toxics

Client Sample ID: CCV

Lab ID#: 1203050A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p030403	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/4/12 08:51 AM	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	92
Chlorobenzene	90
Ethyl Benzene	93
m,p-Xylene	96
o-Xylene	96
Styrene	89
Bromoform	94
Cumene	97
1,1,2,2-Tetrachloroethane	91
Propylbenzene	94
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	93
Butane	88
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1203050A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 09:14 AM**	

Compound	%Recovery
Freon 12	118
Freon 114	106
Chloromethane	122
Vinyl Chloride	100
1,3-Butadiene	98
Bromomethane	106
Chloroethane	99
Freon 11	117
Ethanol	102
Freon 113	106
1,1-Dichloroethene	107
Acetone	96
2-Propanol	103
Carbon Disulfide	123
3-Chloropropene	117
Methylene Chloride	100
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	114
Hexane	103
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	102
Tetrahydrofuran	96
Chloroform	108
1,1,1-Trichloroethane	110
Cyclohexane	105
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	103
Benzene	102
1,2-Dichloroethane	109
Heptane	104
Trichloroethene	104
1,2-Dichloropropane	97
1,4-Dioxane	100
Bromodichloromethane	105
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	99
Toluene	98
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	99
Tetrachloroethene	100
2-Hexanone	106

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Client Sample ID: LCS

Lab ID#: 1203050A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p030404	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/4/12 09:14 AM	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	104
Chlorobenzene	101
Ethyl Benzene	101
m,p-Xylene	107
o-Xylene	107
Styrene	106
Bromoform	104
Cumene	107
1,1,2,2-Tetrachloroethane	100
Propylbenzene	105
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	91
Butane	92
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 1203050A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 09:32 AM**	

Compound	%Recovery
Freon 12	125
Freon 114	112
Chloromethane	125
Vinyl Chloride	104
1,3-Butadiene	105
Bromomethane	115
Chloroethane	101
Freon 11	121
Ethanol	95
Freon 113	110
1,1-Dichloroethene	115
Acetone	104
2-Propanol	111
Carbon Disulfide	130
3-Chloropropene	124
Methylene Chloride	105
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	120
Hexane	108
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	106
Tetrahydrofuran	100
Chloroform	110
1,1,1-Trichloroethane	112
Cyclohexane	110
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	109
Benzene	103
1,2-Dichloroethane	108
Heptane	108
Trichloroethene	104
1,2-Dichloropropane	101
1,4-Dioxane	102
Bromodichloromethane	108
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	103
Toluene	100
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	104
Tetrachloroethene	101
2-Hexanone	110

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Client Sample ID: LCSD

Lab ID#: 1203050A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 09:32 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	109
Chlorobenzene	107
Ethyl Benzene	105
m,p-Xylene	111
o-Xylene	113
Styrene	113
Bromoform	108
Cumene	116
1,1,2,2-Tetrachloroethane	107
Propylbenzene	112
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	120
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	102
Butane	96
Isopentane	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	108	70-130

1203050

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SDSCM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
DATE: 29-Feb-12
PO #
SAP #: 3 4 0 0 6 1
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST. LOUIS, MO 63110
CITY (OR NEAREST TO) (Shell Terminal, Other Location):
PHONE NO:
E-MAIL:
CONSULTANT PROJECT NAME/#
Elizabeth Kunkel, URS, St. Louis | 314-743-4179 | elizabeth_kunkel@urs.com | Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): J Holsapple, S. Wyllie
TELEPHONE: 314-429-0100
FAX: 314-429-0462
CC To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush
Specify
Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg	Sample PID (ppm)
01A	EXH-SVE-022112	2/21/12	1530	33712	-29	-8			X	X	X	
02A	EXH-SVE-022412	2/24/12	1130	34661	-27	-9.5			X	X	X	
03A	EHX-SVE-022712	2/27/12	1400	31793	-29	-8.5			X	X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- CANISTER 34661 BORROWED FROM 1Q12 SOIL VAPOR SAMPLING

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/29/12	1700
		3.1.12	0900

Fedex

CUSTODY SEAL INTACT? Y N NA

7/2/08 Revision

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Air Toxics

3/15/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203050B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

eurofins

Air Toxics

WORK ORDER #: 1203050B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/15/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-022112	Modified ASTM D-1945	7.5 "Hg	5 psi
02A	EXH-SVE-022412	Modified ASTM D-1945	9.5 "Hg	5 psi
03A	EHX-SVE-022712	Modified ASTM D-1945	9.5 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1945	NA	NA
04B	Lab Blank	Modified ASTM D-1945	NA	NA
05A	LCS	Modified ASTM D-1945	NA	NA
05AA	LCSD	Modified ASTM D-1945	NA	NA
05B	LCS	Modified ASTM D-1945	NA	NA
05BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 , (800) 985-5955 , FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1203050B

Three 1 Liter Summa Canister samples were received on March 02, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to aehieve Methane linearity.	1.0 mL.

Receiving Notes

The Chain of Custody (COC) information for sample EHX-SVE-022712 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	20
Nitrogen	0.18	79
Methane	0.00018	0.0037
Carbon Dioxide	0.018	0.94
Isobutane	0.0018	0.00011 J
Butane	0.0018	0.0013 J
Isopentane	0.0018	0.0031
Pentane	0.0018	0.0016 J
C6+	0.018	0.021

Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	16
Nitrogen	0.20	84
Methane	0.00020	0.00083
Carbon Dioxide	0.020	0.25
Isopentane	0.0020	0.000046 J

Client Sample ID: EHX-SVE-022712

Lab ID#: 1203050B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Methane	0.00020	0.00031
Carbon Dioxide	0.020	0.64

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Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030220**	**Date of Collection:**	**2/21/12 3:30:00 PM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**3/2/12 04:57 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	20
Nitrogen	0.18	79
Carbon Monoxide	0.018	Not Detected
Methane	0.00018	0.0037
Carbon Dioxide	0.018	0.94
Ethane	0.0018	Not Detected
Ethene	0.0018	Not Detected
Acetylene	0.0018	Not Detected
Propane	0.0018	Not Detected
Isobutane	0.0018	0.00011 J
Butane	0.0018	0.0013 J
Neopentane	0.0018	Not Detected
Isopentane	0.0018	0.0031
Pentane	0.0018	0.0016 J
C6+	0.018	0.021
Hydrogen	0.018	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 1.3

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030222	Date of Collection:	2/24/12 11:30:00 AM
Dil. Factor:	1.96	Date of Analysis:	3/2/12 05:46 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	16
Nitrogen	0.20	84
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	0.00083
Carbon Dioxide	0.020	0.25
Ethane	0.0020	Not Detected
Ethene	0.0020	Not Detected
Acetylene	0.0020	Not Detected
Propane	0.0020	Not Detected
Isobutane	0.0020	Not Detected
Butane	0.0020	Not Detected
Neopentane	0.0020	Not Detected
Isopentane	0.0020	0.000046 J
Pentane	0.0020	Not Detected
C6+	0.020	Not Detected
Hydrogen	0.020	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.010

Total Sp. Gravity = 0.99

Container Type: 1 Liter Summa Canister

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Client Sample ID: EHX-SVE-022712

Lab ID#: 1203050B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030223**	**Date of Collection:**	**2/27/12 2:00:00 PM**
Dil. Factor:	**1.96**	**Date of Analysis:**	**3/2/12 06:12 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	0.00031
Carbon Dioxide	0.020	0.64
Ethane	0.0020	Not Detected
Ethene	0.0020	Not Detected
Acetylene	0.0020	Not Detected
Propane	0.0020	Not Detected
Isobutane	0.0020	Not Detected
Butane	0.0020	Not Detected
Neopentane	0.0020	Not Detected
Isopentane	0.0020	Not Detected
Pentane	0.0020	Not Detected
C6+	0.020	Not Detected
Hydrogen	0.020	Not Detected

Total BTU/Cu.F. = 0.0031
Total Sp. Gravity = 0.99
Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1203050B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030205a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/2/12 09:50 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.0072 J
Nitrogen	0.10	0.032 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1203050B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030204b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/2/12 09:06 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1203050B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030202	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/2/12 08:09 AM	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	100
Carbon Dioxide	99
Ethane	102
Ethene	101
Acetylene	97
Propane	97
Isobutane	103
Butane	102
Neopentane	100
Isopentane	100
Pentane	100
C6+	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203050B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030230	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/2/12 09:57 PM	

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	100
Methane	99
Carbon Dioxide	98
Ethane	102
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	102
Neopentane	99
Isopentane	99
Pentane	99
C6+	96

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1203050B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030231b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/2/12 10:22 PM	

Compound	%Recovery
Hydrogen	87

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203050B-05BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030232b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/2/12 10:44 PM	

Compound	%Recovery
Hydrogen	87

Container Type: NA - Not Applicable

1203050

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 29-Feb-12
PO #
SAP #: 3 4 0 0 6 1
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST. LOUIS MO 63110
PHONE NO: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
LAB ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): J. Holsapple, S. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EMAIL for results: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:
DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush
Specify
Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-022112	2/21/12	1530	33712	-29	-8			X	X	X		
02A	EXH-SVE-022412	2/24/12	1130	34661	-27	-9.5			X	X	X		
03A	EHX-SVE-022712	2/27/12	1400	31793	-29	-8.5			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- CANISTER 34661 BORROWED FROM 1Q12 SOIL VAPOR SAMPLING

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	2/29/12	1700
		3/1/12	0900

Fedex

CUSTODY SEAL INTACT? Y N NA

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3/17/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203050C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203050C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-022112 ✓	Modified TO-3	7.5 "Hg	5 psi
02A	EXH-SVE-022412 ✓	Modified TO-3	9.5 "Hg	5 psi
03A	EHX-SVE-022712 ✓	Modified TO-3	9.5 "Hg	5 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA
05AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 03/17/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1203050C

Three 1 Liter Summa Canister samples were received on March 02, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

The Chain of Custody (COC) information for sample EHX-SVE-022712 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	1.1	4.6	670	2700

Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.049	0.20	9.4	38

Client Sample ID: EHX-SVE-022712

Lab ID#: 1203050C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.049	0.20	5.3	22

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Client Sample ID: EXH-SVE-022112

Lab ID#: 1203050C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030408	Date of Collection:	2/21/12 3:30:00 PM
Dil. Factor:	44.8	Date of Analysis:	3/4/12 12:20 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	1.1	4.6	670	2700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	150	75-150

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Client Sample ID: EXH-SVE-022412

Lab ID#: 1203050C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030409	Date of Collection:	2/24/12 11:30:00 AM
Dil. Factor:	1.96	Date of Analysis:	3/4/12 12:52 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.049	0.20	9.4	38

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	107	75-150

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Client Sample ID: EHX-SVE-022712

Lab ID#: 1203050C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030410	Date of Collection:	2/27/12 2:00:00 PM
Dil. Factor:	1.96	Date of Analysis:	3/4/12 01:27 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.049	0.20	5.3	22

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150

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Client Sample ID: Lab Blank

Lab ID#: I203050C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030404a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/4/12 09:54 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.016 J	0.065 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	89	75-150

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Air Toxics

Client Sample ID: LCS

Lab ID#: I203050C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030402	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/4/12 08:26 AM	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

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Client Sample ID: LCSD

Lab ID#: 1203050C-05AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d030418**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/4/12 06:26 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	111

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	86	75-150

1203050

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD/SCM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO. # SAP # 340061	INCIDENT # (ENV SERVICES) 972116640 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 29-Feb-12 PAGE 1 of 1

SAMPLING COMPANY URS CORPORATION	LOG CODE	SITE ADDRESS: Street and City 900 SOUTH CENTRAL AVE – ROXANA	State IL	GLOBAL ID NO.
ADDRESS 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST. LOUIS, MO 63110		SITE DELIVERABLE TO (Name, Company, City or Location) Elizabeth Kunkel, URS, St. Louis	PHONE NO. 314-743-4179	E-MAIL elizabeth.kunkel@urs.com	CONSULTANT PROJECT NAME# Roxana SVE O&M
LABORATORY ADDRESS Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		SAMPLER NAME(S) (PRINT) J. Holsapple, S. Wipfler			
TELEPHONE 314-429-0100	FAX 314-429-0462	EDF TO CONTACT/EMAIL dave.palmer@urs.com			

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg	Sample PID (ppm)
024	EXH-SVE-022112	2/21/12	1530	33712	-29	-8			X	X	X	
023	EXH-SVE-022412	2/24/12	1130	34661	-27	-9.5			X	X	X	
022	EHX-SVE-022712	2/27/12	1400	31793	-29	-8.5			X	X	X	

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- CANISTER 34661 BORROWED FROM 1Q12 SOIL VAPOR SAMPLING

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date 2/29/12	Time 1700
Relinquished by: (Signature)	Received by: (Signature)	Date 3.1.12	Time 0900
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

FedEx

CUSTODY SEAL INTACT?
Y N NA

SVE System O&M 2012 Data Review

Laboratory SDG: 1203112A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 4/4/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-030112	HEADER-SVE-030112

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in ASTM D-1945 and TO-3 method blanks. These issues are addressed further in the appropriate sections below.

No problems were indicated on the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1203112B-03A	ASTM D-1945	Oxygen	0.0098 %
1203112B-03A	ASTM D-1945	Nitrogen	0.040 %
1203112C-03A	TO-3	TPH (Gasoline range)	0.016 ppmv / 0.066 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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3/15/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203112A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/5/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 4/4/2012

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Air Toxics

WORK ORDER #: 1203112A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/05/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/15/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-030112	Modified TO-15	9.0 "Hg	5 psi
02A	HEADER-SVE-030112	Modified TO-15	7.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1203112A

Two 1 Liter Summa Canister samples were received on March 05, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples EXH-SVE-030112 and HEADER-SVE-030112 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	120	84 J	700	470 J
Methylene Chloride	120	120	440	420
Hexane	120	10000	440	36000
Chloroform	120	180	610	860
Cyclohexane	120	3800	430	13000
Carbon Tetrachloride	120	76 J	790	480 J
2,2,4-Trimethylpentane	120	8800	590	41000
Benzene	120	1400	400	4400
Heptane	120	2700	510	11000
Trichloroethene	120	200	670	1000
Toluene	120	500	470	1900
Ethyl Benzene	120	250	540	1100
m,p-Xylene	120	390	540	1700
o-Xylene	120	44 J	540	190 J
Cumene	120	16 J	620	81 J
4-Ethyltoluene	120	22 J	620	100 J
Butane	500	44000	1200	100000
Isopentane	500	81000	1500	240000

Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	7400	1200 J	42000	6800 J
Acetone	30000	2700 J	71000	6500 J
Methylene Chloride	7400	2200 J	26000	7800 J
Hexane	7400	560000	26000	2000000
Cyclohexane	7400	190000	26000	660000
Carbon Tetrachloride	7400	1900 J	47000	12000 J
2,2,4-Trimethylpentane	7400	500000	35000	2300000
Benzene	7400	48000	24000	150000
Heptane	7400	120000	30000	500000
Toluene	7400	12000	28000	46000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112A-02A

Ethyl Benzene	7400	3600 J	32000	16000 J
m,p-Xylene	7400	8200	32000	36000
o-Xylene	7400	1900 J	32000	8300 J
4-Ethyltoluene	7400	1600 J	37000	7700 J
1,2,4-Trimethylbenzene	30000	2600 J	150000	13000 J
Butane	30000	1700000	71000	4000000
Isopentane	30000	3500000	88000	10000000

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Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112A-01A

EPA METHOD TO-15 GC/MS

File Name:	14030724	Date of Collection:	3/1/12 3:00:00 PM
Dil. Factor:	25.1	Date of Analysis:	3/7/12 09:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	620	Not Detected
Freon 114	120	Not Detected	880	Not Detected
Chloromethane	500	Not Detected	1000	Not Detected
Vinyl Chloride	120	Not Detected	320	Not Detected
1,3-Butadiene	120	Not Detected	280	Not Detected
Bromomethane	120	Not Detected	490	Not Detected
Chloroethane	500	Not Detected	1300	Not Detected
Freon 11	120	84 J	700	470 J
Ethanol	500	Not Detected	940	Not Detected
Freon 113	120	Not Detected	960	Not Detected
1,1-Dichloroethene	120	Not Detected	500	Not Detected
Acetone	500	Not Detected	1200	Not Detected
2-Propanol	500	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	390	Not Detected
3-Chloropropene	500	Not Detected	1600	Not Detected
Methylene Chloride	120	120	440	420
Methyl tert-butyl ether	120	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	500	Not Detected
Hexane	120	10000	440	36000
1,1-Dichloroethane	120	Not Detected	510	Not Detected
2-Butanone (Methyl Ethyl Ketone)	500	Not Detected	1500	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	500	Not Detected
Tetrahydrofuran	120	Not Detected	370	Not Detected
Chloroform	120	180	610	860
1,1,1-Trichloroethane	120	Not Detected	680	Not Detected
Cyclohexane	120	3800	430	13000
Carbon Tetrachloride	120	76 J	790	480 J
2,2,4-Trimethylpentane	120	8800	590	41000
Benzene	120	1400	400	4400
1,2-Dichloroethane	120	Not Detected	510	Not Detected
Heptane	120	2700	510	11000
Trichloroethene	120	200	670	1000
1,2-Dichloropropane	120	Not Detected	580	Not Detected
1,4-Dioxane	500	Not Detected	1800	Not Detected
Bromodichloromethane	120	Not Detected	840	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	570	Not Detected
4-Methyl-2-pentanone	120	Not Detected	510	Not Detected
Toluene	120	500	470	1900
trans-1,3-Dichloropropene	120	Not Detected	570	Not Detected
1,1,2-Trichloroethane	120	Not Detected	680	Not Detected
Tetrachloroethene	120	Not Detected	850	Not Detected
2-Hexanone	500	Not Detected	2000	Not Detected

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Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14030724**	**Date of Collection: 3/1/12 3:00:00 PM**	
Dil. Factor:	**25.1**	**Date of Analysis: 3/7/12 09:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	120	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	960	Not Detected
Chlorobenzene	120	Not Detected	580	Not Detected
Ethyl Benzene	120	250	540	1100
m,p-Xylene	120	390	540	1700
o-Xylene	120	44 J	540	190 J
Styrene	120	Not Detected	530	Not Detected
Bromoform	500	Not Detected	5200	Not Detected
Cumene	120	16 J	620	81 J
1,1,2,2-Tetrachloroethane	120	Not Detected	860	Not Detected
Propylbenzene	120	Not Detected	620	Not Detected
4-Ethyltoluene	120	22 J	620	100 J
1,3,5-Trimethylbenzene	120	Not Detected	620	Not Detected
1,2,4-Trimethylbenzene	500	Not Detected	2500	Not Detected
1,3-Dichlorobenzene	120	Not Detected	750	Not Detected
1,4-Dichlorobenzene	120	Not Detected	750	Not Detected
alpha-Chlorotoluene	500	Not Detected	2600	Not Detected
1,2-Dichlorobenzene	120	Not Detected	750	Not Detected
1,2,4-Trichlorobenzene	500	Not Detected	3700	Not Detected
Hexachlorobutadiene	500	Not Detected	5400	Not Detected
Butane	500	44000	1200	100000
Isopentane	500	81000	1500	240000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14030730**	**Date of Collection:**	**3/1/12 3:00:00 PM**
Dil. Factor:	**1490**	**Date of Analysis:**	**3/8/12 03:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7400	Not Detected	37000	Not Detected
Freon 114	7400	Not Detected	52000	Not Detected
Chloromethane	30000	Not Detected	62000	Not Detected
Vinyl Chloride	7400	Not Detected	19000	Not Detected
1,3-Butadiene	7400	Not Detected	16000	Not Detected
Bromomethane	7400	Not Detected	29000	Not Detected
Chloroethane	30000	Not Detected	79000	Not Detected
Freon 11	7400	1200 J	42000	6800 J
Ethanol	30000	Not Detected	56000	Not Detected
Freon 113	7400	Not Detected	57000	Not Detected
1,1-Dichloroethene	7400	Not Detected	30000	Not Detected
Acetone	30000	2700 J	71000	6500 J
2-Propanol	30000	Not Detected	73000	Not Detected
Carbon Disulfide	7400	Not Detected	23000	Not Detected
3-Chloropropene	30000	Not Detected	93000	Not Detected
Methylene Chloride	7400	2200 J	26000	7800 J
Methyl tert-butyl ether	7400	Not Detected	27000	Not Detected
trans-1,2-Dichloroethene	7400	Not Detected	30000	Not Detected
Hexane	7400	560000	26000	2000000
1,1-Dichloroethane	7400	Not Detected	30000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	30000	Not Detected	88000	Not Detected
cis-1,2-Dichloroethene	7400	Not Detected	30000	Not Detected
Tetrahydrofuran	7400	Not Detected	22000	Not Detected
Chloroform	7400	Not Detected	36000	Not Detected
1,1,1-Trichloroethane	7400	Not Detected	41000	Not Detected
Cyclohexane	7400	190000	26000	660000
Carbon Tetrachloride	7400	1900 J	47000	12000 J
2,2,4-Trimethylpentane	7400	500000	35000	2300000
Benzene	7400	48000	24000	150000
1,2-Dichloroethane	7400	Not Detected	30000	Not Detected
Heptane	7400	120000	30000	500000
Trichloroethene	7400	Not Detected	40000	Not Detected
1,2-Dichloropropane	7400	Not Detected	34000	Not Detected
1,4-Dioxane	30000	Not Detected	110000	Not Detected
Bromodichloromethane	7400	Not Detected	50000	Not Detected
cis-1,3-Dichloropropene	7400	Not Detected	34000	Not Detected
4-Methyl-2-pentanone	7400	Not Detected	30000	Not Detected
Toluene	7400	12000	28000	46000
trans-1,3-Dichloropropene	7400	Not Detected	34000	Not Detected
1,1,2-Trichloroethane	7400	Not Detected	41000	Not Detected
Tetrachloroethene	7400	Not Detected	50000	Not Detected
2-Hexanone	30000	Not Detected	120000	Not Detected

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Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14030730**	**Date of Collection: 3/1/12 3:00:00 PM**	
Dil. Factor:	**1490**	**Date of Analysis: 3/8/12 03:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7400	Not Detected	63000	Not Detected
1,2-Dibromoethane (EDB)	7400	Not Detected	57000	Not Detected
Chlorobenzene	7400	Not Detected	34000	Not Detected
Ethyl Benzene	7400	3600 J	32000	16000 J
m,p-Xylene	7400	8200	32000	36000
o-Xylene	7400	1900 J	32000	8300 J
Styrene	7400	Not Detected	32000	Not Detected
Bromoform	30000	Not Detected	310000	Not Detected
Cumene	7400	Not Detected	37000	Not Detected
1,1,2,2-Tetrachloroethane	7400	Not Detected	51000	Not Detected
Propylbenzene	7400	Not Detected	37000	Not Detected
4-Ethyltoluene	7400	1600 J	37000	7700 J
1,3,5-Trimethylbenzene	7400	Not Detected	37000	Not Detected
1,2,4-Trimethylbenzene	30000	2600 J	150000	13000 J
1,3-Dichlorobenzene	7400	Not Detected	45000	Not Detected
1,4-Dichlorobenzene	7400	Not Detected	45000	Not Detected
alpha-Chlorotoluene	30000	Not Detected	150000	Not Detected
1,2-Dichlorobenzene	7400	Not Detected	45000	Not Detected
1,2,4-Trichlorobenzene	30000	Not Detected	220000	Not Detected
Hexachlorobutadiene	30000	Not Detected	320000	Not Detected
Butane	30000	1700000	71000	4000000
Isopentane	30000	3500000	88000	10000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203112A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14030706c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/7/12 10:21 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203112A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14030706c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/7/12 10:21 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	20	Not Detected	210	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	20	Not Detected	98	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: CCV

Lab ID#: 1203112A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14030702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 08:30 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	90
Chloromethane	110
Vinyl Chloride	86
1,3-Butadiene	92
Bromomethane	102
Chloroethane	106
Freon 11	97
Ethanol	110
Freon 113	87
1,1-Dichloroethene	110
Acetone	112
2-Propanol	109
Carbon Disulfide	94
3-Chloropropene	90
Methylene Chloride	119
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	95
Hexane	116
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	107
Tetrahydrofuran	126
Chloroform	97
1,1,1-Trichloroethane	94
Cyclohexane	97
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	116
Benzene	96
1,2-Dichloroethane	98
Heptane	98
Trichloroethene	92
1,2-Dichloropropane	103
1,4-Dioxane	84
Bromodichloromethane	96
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	93
Toluene	92
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	98
Tetrachloroethene	89
2-Hexanone	101

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Client Sample ID: CCV

Lab ID#: 1203112A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	14030702	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/7/12 08:30 AM	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	95
m,p-Xylene	92
o-Xylene	94
Styrene	98
Bromoform	93
Cumene	96
1,1,2,2-Tetrachloroethane	102
Propylbenzene	97
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	78
Butane	84
Isopentane	124

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCS

Lab ID#: 1203112A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14030703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 08:50 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	91
Chloromethane	110
Vinyl Chloride	85
1,3-Butadiene	88
Bromomethane	98
Chloroethane	104
Freon 11	98
Ethanol	109
Freon 113	88
1,1-Dichloroethene	116
Acetone	111
2-Propanol	108
Carbon Disulfide	116
3-Chloropropene	96
Methylene Chloride	118
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	106
Hexane	117
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	107
Tetrahydrofuran	118
Chloroform	99
1,1,1-Trichloroethane	98
Cyclohexane	97
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	114
Benzene	97
1,2-Dichloroethane	100
Heptane	95
Trichloroethene	94
1,2-Dichloropropane	104
1,4-Dioxane	82
Bromodichloromethane	95
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	91
Toluene	90
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	94
Tetrachloroethene	88
2-Hexanone	98

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Client Sample ID: LCS

Lab ID#: 1203112A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14030703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 08:50 AM**	

Compound	%Recovery
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	95
Chlorobenzene	93
Ethyl Benzene	94
m,p-Xylene	93
o-Xylene	95
Styrene	102
Bromoform	92
Cumene	99
1,1,2,2-Tetrachloroethane	104
Propylbenzene	99
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	99
Butane	80
Isopentane	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 1203112A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 09:10 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	92
Chloromethane	116
Vinyl Chloride	89
1,3-Butadiene	93
Bromomethane	100
Chloroethane	105
Freon 11	96
Ethanol	121
Freon 113	88
1,1-Dichloroethene	116
Acetone	111
2-Propanol	110
Carbon Disulfide	116
3-Chloropropene	100
Methylene Chloride	116
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	106
Hexane	115
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	108
Tetrahydrofuran	118
Chloroform	100
1,1,1-Trichloroethane	98
Cyclohexane	95
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	114
Benzene	98
1,2-Dichloroethane	101
Heptane	96
Trichloroethene	96
1,2-Dichloropropane	103
1,4-Dioxane	81
Bromodichloromethane	94
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	88
Toluene	87
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	89
Tetrachloroethene	84
2-Hexanone	103

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Client Sample ID: LCSD

Lab ID#: 1203112A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**14030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 09:10 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	96
Chlorobenzene	93
Ethyl Benzene	92
m,p-Xylene	95
o-Xylene	95
Styrene	100
Bromoform	92
Cumene	98
1,1,2,2-Tetrachloroethane	105
Propylbenzene	101
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	91
Butane	84
Isopentane	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	95	70-130

1203112

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 3 4 0 0 6 1
DATE 2-Mar-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME/#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom CA 95630-4719
SAMPLER NAME(S) (Print): J. Horsepple, S. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
ATTN: (Name, E-MAIL): dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
JAK	EXH-SVE-030112	3/1/12	1500	33641	-27.5	-8.5			X	X	X		
JAK	HEADER-SVE-030112	3/1/12	1500	37341	-28	-8			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify
Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTER 37299.

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	3/2/12	1800
	B. Wolfgram ATC 3/5/12	0830	

05/2005 Revision

CUSTODY SEAL INTACT?
Y N NONE TEMP N/A
Fedex

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Air Toxics

3/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203112B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/5/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203112B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/05/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-030112	Modified ASTM D-1945	9.0 "Hg	5 psi
02A	HEADER-SVE-030112	Modified ASTM D-1945	7.5 "Hg	5 psi
03A	Lab Blank	Modified ASTM D-1945	NA	NA
03B	Lab Blank	Modified ASTM D-1945	NA	NA
04A	LCS	Modified ASTM D-1945	NA	NA
04AA	LCSD	Modified ASTM D-1945	NA	NA
04B	LCS	Modified ASTM D-1945	NA	NA
04BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 03/20/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health. Scope of Application: Clean Air Aet, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1203112B

Two 1 Liter Summa Canister samples were received on March 05, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Nitrogen	0.19	78
Methane	0.00019	0.21
Carbon Dioxide	0.019	0.27
Ethane	0.0019	0.000048 J
Propane	0.0019	0.000056 J
Isobutane	0.0019	0.00090 J
Butane	0.0019	0.0050
Isopentane	0.0019	0.0064
Pentane	0.0019	0.0017 J
C6+	0.019	0.015 J

Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	6.0
Nitrogen	0.18	78
Methane	0.00018	6.9
Carbon Dioxide	0.018	7.9
Ethane	0.0018	0.0016 J
Ethene	0.0018	0.000072 J
Propane	0.0018	0.0020
Isobutane	0.0018	0.035
Butane	0.0018	0.23
Neopentane	0.0018	0.0012 J
Isopentane	0.0018	0.32
Pentane	0.0018	0.10
C6+	0.018	0.70

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Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030613**	**Date of Collection:**	**3/1/12 3:00:00 PM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**3/6/12 03:19 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Nitrogen	0.19	78
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.21
Carbon Dioxide	0.019	0.27
Ethane	0.0019	0.000048 J
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	0.000056 J
Isobutane	0.0019	0.00090 J
Butane	0.0019	0.0050
Neopentane	0.0019	Not Detected
Isopentane	0.0019	0.0064
Pentane	0.0019	0.0017 J
C6+	0.019	0.015 J
Hydrogen	0.019	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 3.4

Total Sp. Gravity = 0.99

Container Type: 1 Liter Summa Canister

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Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030614**	**Date of Collection:**	**3/1/12 3:00:00 PM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**3/6/12 03:48 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	6.0
Nitrogen	0.18	78
Carbon Monoxide	0.018	Not Detected
Methane	0.00018	6.9
Carbon Dioxide	0.018	7.9
Ethane	0.0018	0.0016 J
Ethene	0.0018	0.000072 J
Acetylene	0.0018	Not Detected
Propane	0.0018	0.0020
Isobutane	0.0018	0.035
Butane	0.0018	0.23
Neopentane	0.0018	0.0012 J
Isopentane	0.0018	0.32
Pentane	0.0018	0.10
C6+	0.018	0.70
Hydrogen	0.018	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 130

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1203112B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/12 11:56 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.0098 J
Nitrogen	0.10	0.040 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1203112B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030605b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/6/12 11:31 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1203112B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/6/12 10:06 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	99
Carbon Dioxide	99
Ethane	102
Ethene	100
Acetylene	96
Propane	96
Isobutane	102
Butane	101
Neopentane	99
Isopentane	99
Pentane	98
C6+	95

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203112B-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9030628**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 04:20 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	98
Methane	99
Carbon Dioxide	101
Ethane	102
Ethene	101
Acetylene	97
Propane	97
Isobutane	102
Butane	102
Neopentane	100
Isopentane	100
Pentane	100
C6+	96

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: I203112B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030604b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/6/12 11:02 AM	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203112B-04BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9030627b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/7/12 03:54 AM	

Compound	%Recovery
Hydrogen	97

Container Type: NA - Not Applicable

1203112

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
PO #
SAP #: 3 4 0 0 6 1
DATE 2-Mar-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth_kunkel@urs.com
CONSULTANT PROJECT NAME/#: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom CA 95630-4719
SAMPLER NAME(S) (Print): J. Hotsapple, S. Wipfler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
E-MAIL to Contact: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
[illegible]	EXH-SVE-030112	3/1/12	1500	33641	-27.5	-8.5			X	X	X		
[illegible]	HEADER-SVE-030112	3/1/12	1500	37341	-28	-8			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTER 37299.

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature] 3/2/12	FEDEX	3/2/12	1800
	[signature] 3/5/12	0830	

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
Fedex

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3/19/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203112C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/5/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1203112C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/05/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/19/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-030112	Modified TO-3	9.0 "Hg	5 psi
02A	HEADER-SVE-030112	Modified TO-3	7.5 "Hg	5 psi
03A	Lab Blank	Modified TO-3	NA	NA
04A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 03/19/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1203112C

Two 1 Liter Summa Canister samples were received on March 05, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.64	2.6	410	1700

Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	36	150	22000	91000

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Client Sample ID: EXH-SVE-030112

Lab ID#: 1203112C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030709	Date of Collection:	3/1/12 3:00:00 PM
Dil. Factor:	25.5	Date of Analysis:	3/7/12 02:58 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.64	2.6	410	1700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	125	75-150

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Client Sample ID: HEADER-SVE-030112

Lab ID#: 1203112C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030710	Date of Collection:	3/1/12 3:00:00 PM
Dil. Factor:	1430	Date of Analysis:	3/7/12 03:39 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	36	150	22000	91000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	141	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1203112C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d030706c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/7/12 12:52 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	0.016 J	0.066 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150

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Client Sample ID: LCS

Lab ID#: 1203112C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d030716**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/12 11:52 PM**	

Compound	**%Recovery**
TPH (Gasoline Range)	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	92	75-150

1203112

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE 2-Mar-12
PAGE: 1 of 1

PO #:
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME/#: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100
FAX: 314-429-0462
cc TO CONTACT E-MAIL: dave.palmer@urs.com

SAMPLER NAME(S) (Print): J. Hesapple, S. Wipfler

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
JA	EXH-SVE-030112	3/1/12	1500	33641	-27.5	-8.5			X	X	X		
JA	HEADER-SVE-030112	3/1/12	1500	37341	-28	-8			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTER 37299.

		Date	Time
Relinquished by (Signature)	Received by (Signature): FEDEX	3/2/12	1800
Relinquished by (Signature)	Received by (Signature): B. Goldstein ATC 3/5/12 0830		
Relinquished by (Signature)	Received by (Signature)		

05/1/06 Revision

CUSTODY SEAL INTACT?
Y N NONE TEMP N/A
Fedex

SVE System O&M 2012 Data Review

Laboratory SDG: 1203557A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 6/25/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
HEADER-SVE-030812	HEADER-SVE-032312
EXH-SVE-032312	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, TO-15 LCS/LCSD recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 CCV recovery for hexachlorobutadiene was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated sample HEADER-SVE-030812 was received past the project requested holding time of 14 days. Sample HEADER-SVE-030812 was analyzed within the 30 day analyses holding times for these methods. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes, however sample HEADER-SVE-030812 was analyzed for TO-15 VOCs seven days outside the requested 14-day hold time, natural gases five days outside the requested 14-day hold time, and TPH sixteen days outside the requested 14-day hold time; no qualification of data was required.

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1203557A-04A	TO-15	1,3-Dichlorobenzene	1.0 ppbv / 6.3 µg/m^3
1203557A-04A	TO-15	1,4-Dichlorobenzene	1.6 ppbv / 9.6 µg/m^3
1203557A-04A	TO-15	alpha-Chlorotoluene	1.6 ppbv / 8.5 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1203557A-04A	TO-15	1,2-Dichlorobenzene	1.5 ppbv / 8.8 µg/m^3
1203557A-04A	TO-15	1,2,4-Trichlorobenzene	9.7 ppbv / 72 µg/m^3
1203557A-04B	TO-15	Bromomethane	0.22 ppbv / 0.84 µg/m^3
1203557A-04B	TO-15	Methylene chloride	0.069 ppbv / 0.24 µg/m^3
1203557A-04B	TO-15	trans-1,3-Dichloropropene	0.16 ppbv / 0.71 µg/m^3
1203557A-04B	TO-15	1,2-Dibromoethane (EDB)	0.12 ppbv / 0.95 µg/m^3
1203557A-04B	TO-15	o-Xylene	0.056 ppbv / 0.24 µg/m^3
1203557A-04B	TO-15	Propylbenzene	0.069 ppbv / 0.34 µg/m^3
1203557A-04B	TO-15	1,3,5-Trimethylbenzene	0.059 ppbv / 0.29 µg/m^3
1203557A-04B	TO-15	1,2,4-Trimethylbenzene	0.077 ppbv / 0.38 µg/m^3
1203557A-04B	TO-15	1,3-Dichlorobenzene	0.19 ppbv / 1.2 µg/m^3
1203557A-04B	TO-15	1,4-Dichlorobenzene	0.20 ppbv / 1.2 µg/m^3
1203557A-04B	TO-15	alpha-Chlorotoluene	0.11 ppbv / 0.56 µg/m^3
1203557A-04B	TO-15	1,2-Dichlorobenzene	0.13 ppbv / 0.81 µg/m^3
1203557A-04B	TO-15	1,2,4-Trichlorobenzene	0.46 ppbv / 3.4 µg/m^3
1203357B-04A	ASTM D-1945	Oxygen	0.011 %
1203557B-04A	ASTM D-1945	Nitrogen	0.056 %
1203557C-04A	TO-3	TPH (C2-C10) ref. to gasoline	0.013 ppmv / 0.053 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1203557A-06A/AA	TO-15	1,1-Dichloroethene	**131**/126	4	70-130/25
1203557A-06A/AA	TO-15	alpha-Chlorotoluene	**134/135**	1	70-130/25
1203557A-06A/AA	TO-15	Hexachlorobutadiene	**131**/123	6	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1203557A-05A	TO-15	Hexachlorobutadiene	**135**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

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4/9/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203557A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 4/25/12

eurofins | Air Toxics

WORK ORDER #: 1203557A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/09/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-030812	Modified TO-15	9.0 "Hg	5 psi
02A	HEADER-SVE-032312	Modified TO-15	10.5 "Hg	5 psi
03A	EXH-SVE-032312	Modified TO-15	10.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 04/09/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1203557A

Three 1 Liter Summa Canister samples were received on March 26, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample HEADER-SVE-030812 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

Dilution was performed on all of the samples due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	3800	910 J	13000	3200 J
Hexane	3800	310000	13000	1100000
Cyclohexane	3800	120000	13000	410000
2,2,4-Trimethylpentane	3800	280000	18000	1300000
Benzene	3800	37000	12000	120000
Heptane	3800	60000	16000	240000
Toluene	3800	3700 J	14000	14000 J
Tetrachloroethene	3800	2000 J	26000	14000 J
Ethyl Benzene	3800	1200 J	16000	5400 J
m,p-Xylene	3800	2100 J	16000	9200 J
Butane	15000	1200000	36000	2900000
Isopentane	15000	2000000	45000	6100000

Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	8200	520 J	20000	1300 J
Hexane	2100	250000	7300	880000
Cyclohexane	2100	65000	7100	220000
2,2,4-Trimethylpentane	2100	160000	9600	740000
Benzene	2100	20000	6600	63000
Heptane	2100	49000	8400	200000
Toluene	2100	12000	7800	46000
Ethyl Benzene	2100	3200	8900	14000
m,p-Xylene	2100	5900	8900	26000
o-Xylene	2100	1100 J	8900	4800 J
4-Ethyltoluene	2100	520 J	10000	2600 J
1,2,4-Trimethylbenzene	2100	380 J	10000	1800 J
Butane	8200	770000	20000	1800000
Isopentane	8200	1200000	24000	3500000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	11	27	20	50
Acetone	27	180	64	440
2-Propanol	11	4.0 J	26	9.8 J
Methylene Chloride	27	1.1 J	93	3.8 J
Hexane	2.7	180	9.4	650
2-Butanone (Methyl Ethyl Ketone)	11	97	32	290
Cyclohexane	2.7	62	9.2	210
2,2,4-Trimethylpentane	2.7	170	12	820
Benzene	2.7	110	8.6	340
Heptane	2.7	78	11	320
4-Methyl-2-pentanone	2.7	7.7	11	32
Toluene	2.7	9.7	10	36
2-Hexanone	11	11	44	46
Ethyl Benzene	2.7	3.7	12	16
m,p-Xylene	2.7	7.2	12	31
o-Xylene	2.7	1.6 J	12	6.8 J
Cumene	2.7	0.73 J	13	3.6 J
Propylbenzene	2.7	0.53 J	13	2.6 J
4-Ethyltoluene	2.7	1.1 J	13	5.5 J
1,3,5-Trimethylbenzene	2.7	0.40 J	13	1.9 J
1,2,4-Trimethylbenzene	2.7	1.1 J	13	5.6 J
Butane	11	500	25	1200
Isopentane	11	820	32	2400

Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557A-01A

EPA METHOD TO-15 GC/MS

File Name:	14032831	**Date of Collection:**	3/8/12 9:00:00 AM
Dil. Factor:	764	**Date of Analysis:**	3/29/12 11:15 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3800	Not Detected	19000	Not Detected
Freon 114	3800	Not Detected	27000	Not Detected
Chloromethane	15000	Not Detected	32000	Not Detected
Vinyl Chloride	3800	Not Detected	9800	Not Detected
1,3-Butadiene	3800	Not Detected	8400	Not Detected
Bromomethane	3800	Not Detected	15000	Not Detected
Chloroethane	15000	Not Detected	40000	Not Detected
Freon 11	3800	Not Detected	21000	Not Detected
Ethanol	15000	Not Detected	29000	Not Detected
Freon 113	3800	Not Detected	29000	Not Detected
1,1-Dichloroethene	3800	Not Detected	15000	Not Detected
Acetone	15000	Not Detected	36000	Not Detected
2-Propanol	15000	Not Detected	38000	Not Detected
Carbon Disulfide	3800	Not Detected	12000	Not Detected
3-Chloropropene	15000	Not Detected	48000	Not Detected
Methylene Chloride	3800	910 J	13000	3200 J
Methyl tert-butyl ether	3800	Not Detected	14000	Not Detected
trans-1,2-Dichloroethene	3800	Not Detected	15000	Not Detected
Hexane	3800	310000	13000	1100000
1,1-Dichloroethane	3800	Not Detected	15000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	15000	Not Detected	45000	Not Detected
cis-1,2-Dichloroethene	3800	Not Detected	15000	Not Detected
Tetrahydrofuran	3800	Not Detected	11000	Not Detected
Chloroform	3800	Not Detected	19000	Not Detected
1,1,1-Trichloroethane	3800	Not Detected	21000	Not Detected
Cyclohexane	3800	120000	13000	410000
Carbon Tetrachloride	3800	Not Detected	24000	Not Detected
2,2,4-Trimethylpentane	3800	280000	18000	1300000
Benzene	3800	37000	12000	120000
1,2-Dichloroethane	3800	Not Detected	15000	Not Detected
Heptane	3800	60000	16000	240000
Trichloroethene	3800	Not Detected	20000	Not Detected
1,2-Dichloropropane	3800	Not Detected	18000	Not Detected
1,4-Dioxane	15000	Not Detected	55000	Not Detected
Bromodichloromethane	3800	Not Detected	26000	Not Detected
cis-1,3-Dichloropropene	3800	Not Detected	17000	Not Detected
4-Methyl-2-pentanone	3800	Not Detected	16000	Not Detected
Toluene	3800	3700 J	14000	14000 J
trans-1,3-Dichloropropene	3800	Not Detected	17000	Not Detected
1,1,2-Trichloroethane	3800	Not Detected	21000	Not Detected
Tetrachloroethene	3800	2000 J	26000	14000 J
2-Hexanone	15000	Not Detected	62000	Not Detected

Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14032831**	**Date of Collection:**	**3/8/12 9:00:00 AM**
Dil. Factor:	**764**	**Date of Analysis:**	**3/29/12 11:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3800	Not Detected	32000	Not Detected
1,2-Dibromoethane (EDB)	3800	Not Detected	29000	Not Detected
Chlorobenzene	3800	Not Detected	18000	Not Detected
Ethyl Benzene	3800	1200 J	16000	5400 J
m,p-Xylene	3800	2100 J	16000	9200 J
o-Xylene	3800	Not Detected	16000	Not Detected
Styrene	3800	Not Detected	16000	Not Detected
Bromoform	3800	Not Detected	39000	Not Detected
Cumene	3800	Not Detected	19000	Not Detected
1,1,2,2-Tetrachloroethane	3800	Not Detected	26000	Not Detected
Propylbenzene	3800	Not Detected	19000	Not Detected
4-Ethyltoluene	3800	Not Detected	19000	Not Detected
1,3,5-Trimethylbenzene	3800	Not Detected	19000	Not Detected
1,2,4-Trimethylbenzene	3800	Not Detected	19000	Not Detected
1,3-Dichlorobenzene	3800	Not Detected	23000	Not Detected
1,4-Dichlorobenzene	3800	Not Detected	23000	Not Detected
alpha-Chlorotoluene	15000	Not Detected	79000	Not Detected
1,2-Dichlorobenzene	3800	Not Detected	23000	Not Detected
1,2,4-Trichlorobenzene	15000	Not Detected	110000	Not Detected
Hexachlorobutadiene	15000	Not Detected	160000	Not Detected
Butane	15000	1200000	36000	2900000
Isopentane	15000	2000000	45000	6100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557A-02A

EPA METHOD TO-15 GC/MS

File Name:	14032829	Date of Collection:	3/23/12 11:33:00 AM
Dil. Factor:	412	Date of Analysis:	3/29/12 10:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2100	Not Detected	10000	Not Detected
Freon 114	2100	Not Detected	14000	Not Detected
Chloromethane	8200	Not Detected	17000	Not Detected
Vinyl Chloride	2100	Not Detected	5300	Not Detected
1,3-Butadiene	2100	Not Detected	4600	Not Detected
Bromomethane	2100	Not Detected	8000	Not Detected
Chloroethane	8200	Not Detected	22000	Not Detected
Freon 11	2100	Not Detected	12000	Not Detected
Ethanol	8200	Not Detected	16000	Not Detected
Freon 113	2100	Not Detected	16000	Not Detected
1,1-Dichloroethene	2100	Not Detected	8200	Not Detected
Acetone	8200	Not Detected	20000	Not Detected
2-Propanol	8200	520 J	20000	1300 J
Carbon Disulfide	2100	Not Detected	6400	Not Detected
3-Chloropropene	8200	Not Detected	26000	Not Detected
Methylene Chloride	2100	Not Detected	7200	Not Detected
Methyl tert-butyl ether	2100	Not Detected	7400	Not Detected
trans-1,2-Dichloroethene	2100	Not Detected	8200	Not Detected
Hexane	2100	250000	7300	880000
1,1-Dichloroethane	2100	Not Detected	8300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8200	Not Detected	24000	Not Detected
cis-1,2-Dichloroethene	2100	Not Detected	8200	Not Detected
Tetrahydrofuran	2100	Not Detected	6100	Not Detected
Chloroform	2100	Not Detected	10000	Not Detected
1,1,1-Trichloroethane	2100	Not Detected	11000	Not Detected
Cyclohexane	2100	65000	7100	220000
Carbon Tetrachloride	2100	Not Detected	13000	Not Detected
2,2,4-Trimethylpentane	2100	160000	9600	740000
Benzene	2100	20000	6600	63000
1,2-Dichloroethane	2100	Not Detected	8300	Not Detected
Heptane	2100	49000	8400	200000
Trichloroethene	2100	Not Detected	11000	Not Detected
1,2-Dichloropropane	2100	Not Detected	9500	Not Detected
1,4-Dioxane	8200	Not Detected	30000	Not Detected
Bromodichloromethane	2100	Not Detected	14000	Not Detected
cis-1,3-Dichloropropene	2100	Not Detected	9300	Not Detected
4-Methyl-2-pentanone	2100	Not Detected	8400	Not Detected
Toluene	2100	12000	7800	46000
trans-1,3-Dichloropropene	2100	Not Detected	9300	Not Detected
1,1,2-Trichloroethane	2100	Not Detected	11000	Not Detected
Tetrachloroethene	2100	Not Detected	14000	Not Detected
2-Hexanone	8200	Not Detected	34000	Not Detected

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Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14032829**	**Date of Collection: 3/23/12 11:33:00 AM**	
Dil. Factor:	**412**	**Date of Analysis: 3/29/12 10:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2100	Not Detected	18000	Not Detected
1,2-Dibromoethane (EDB)	2100	Not Detected	16000	Not Detected
Chlorobenzene	2100	Not Detected	9500	Not Detected
Ethyl Benzene	2100	3200	8900	14000
m,p-Xylene	2100	5900	8900	26000
o-Xylene	2100	1100 J	8900	4800 J
Styrene	2100	Not Detected	8800	Not Detected
Bromoform	2100	Not Detected	21000	Not Detected
Cumene	2100	Not Detected	10000	Not Detected
1,1,2,2-Tetrachloroethane	2100	Not Detected	14000	Not Detected
Propylbenzene	2100	Not Detected	10000	Not Detected
4-Ethyltoluene	2100	520 J	10000	2600 J
1,3,5-Trimethylbenzene	2100	Not Detected	10000	Not Detected
1,2,4-Trimethylbenzene	2100	380 J	10000	1800 J
1,3-Dichlorobenzene	2100	Not Detected	12000	Not Detected
1,4-Dichlorobenzene	2100	Not Detected	12000	Not Detected
alpha-Chlorotoluene	8200	Not Detected	43000	Not Detected
1,2-Dichlorobenzene	2100	Not Detected	12000	Not Detected
1,2,4-Trichlorobenzene	8200	Not Detected	61000	Not Detected
Hexachlorobutadiene	8200	Not Detected	88000	Not Detected
Butane	8200	770000	20000	1800000
Isopentane	8200	1200000	24000	3500000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3032831	**Date of Collection:**	3/23/12 9:55:00 AM
Dil. Factor:	5.36	**Date of Analysis:**	3/29/12 12:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	Not Detected	13	Not Detected
Freon 114	2.7	Not Detected	19	Not Detected
Chloromethane	27	Not Detected	55	Not Detected
Vinyl Chloride	2.7	Not Detected	6.8	Not Detected
1,3-Butadiene	2.7	Not Detected	5.9	Not Detected
Bromomethane	27	Not Detected	100	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.7	Not Detected	15	Not Detected
Ethanol	11	27	20	50
Freon 113	2.7	Not Detected	20	Not Detected
1,1-Dichloroethene	2.7	Not Detected	11	Not Detected
Acetone	27	180	64	440
2-Propanol	11	4.0 J	26	9.8 J
Carbon Disulfide	11	Not Detected	33	Not Detected
3-Chloropropene	11	Not Detected	34	Not Detected
Methylene Chloride	27	1.1 J	93	3.8 J
Methyl tert-butyl ether	2.7	Not Detected	9.7	Not Detected
trans-1,2-Dichloroethene	2.7	Not Detected	11	Not Detected
Hexane	2.7	180	9.4	650
1,1-Dichloroethane	2.7	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	97	32	290
cis-1,2-Dichloroethene	2.7	Not Detected	11	Not Detected
Tetrahydrofuran	2.7	Not Detected	7.9	Not Detected
Chloroform	2.7	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.7	Not Detected	15	Not Detected
Cyclohexane	2.7	62	9.2	210
Carbon Tetrachloride	2.7	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.7	170	12	820
Benzene	2.7	110	8.6	340
1,2-Dichloroethane	2.7	Not Detected	11	Not Detected
Heptane	2.7	78	11	320
Trichloroethene	2.7	Not Detected	14	Not Detected
1,2-Dichloropropane	2.7	Not Detected	12	Not Detected
1,4-Dioxane	11	Not Detected	39	Not Detected
Bromodichloromethane	2.7	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.7	7.7	11	32
Toluene	2.7	9.7	10	36
trans-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.7	Not Detected	15	Not Detected
Tetrachloroethene	2.7	Not Detected	18	Not Detected
2-Hexanone	11	11	44	46

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Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032831**	**Date of Collection: 3/23/12 9:55:00 AM**	
Dil. Factor:	**5.36**	**Date of Analysis: 3/29/12 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.7	Not Detected	23	Not Detected
1,2-Dibromoethane (EDB)	2.7	Not Detected	20	Not Detected
Chlorobenzene	2.7	Not Detected	12	Not Detected
Ethyl Benzene	2.7	3.7	12	16
m,p-Xylene	2.7	7.2	12	31
o-Xylene	2.7	1.6 J	12	6.8 J
Styrene	2.7	Not Detected	11	Not Detected
Bromoform	2.7	Not Detected	28	Not Detected
Cumene	2.7	0.73 J	13	3.6 J
1,1,2,2-Tetrachloroethane	2.7	Not Detected	18	Not Detected
Propylbenzene	2.7	0.53 J	13	2.6 J
4-Ethyltoluene	2.7	1.1 J	13	5.5 J
1,3,5-Trimethylbenzene	2.7	0.40 J	13	1.9 J
1,2,4-Trimethylbenzene	2.7	1.1 J	13	5.6 J
1,3-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.7	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.7	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	80	Not Detected
Hexachlorobutadiene	11	Not Detected	110	Not Detected
Butane	11	500	25	1200
Isopentane	11	820	32	2400

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank
Lab ID#: 1203557A-04A
EPA METHOD TO-15 GC/MS

File Name:	14032805c	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	3/28/12 01:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank
Lab ID#: 1203557A-04A
EPA METHOD TO-15 GC/MS

File Name:	**14032805c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 01:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	1.0 J	30	6.3 J
1,4-Dichlorobenzene	5.0	1.6 J	30	9.6 J
alpha-Chlorotoluene	20	1.6 J	100	8.5 J
1,2-Dichlorobenzene	5.0	1.5 J	30	8.8 J
1,2,4-Trichlorobenzene	20	9.7 J	150	72 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203557A-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3032807a	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	3/28/12 06:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	0.22 J	19	0.84 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.069 J	17	0.24 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.16 J	2.3	0.71 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1203557A-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 06:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.12 J	3.8	0.95 J
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	0.056 J	2.2	0.24 J
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.069 J	2.4	0.34 J
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.059 J	2.4	0.29 J
1,2,4-Trimethylbenzene	0.50	0.077 J	2.4	0.38 J
1,3-Dichlorobenzene	0.50	0.19 J	3.0	1.2 J
1,4-Dichlorobenzene	0.50	0.20 J	3.0	1.2 J
alpha-Chlorotoluene	0.50	0.11 J	2.6	0.56 J
1,2-Dichlorobenzene	0.50	0.13 J	3.0	0.81 J
1,2,4-Trichlorobenzene	2.0	0.46 J	15	3.4 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

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Air Toxics

Client Sample ID: CCV

Lab ID#: 1203557A-05A

EPA METHOD TO-15 GC/MS

File Name:	**14032802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 12:33 PM**	

Compound	%Recovery
Freon 12	99
Freon 114	101
Chloromethane	91
Vinyl Chloride	81
1,3-Butadiene	84
Bromomethane	92
Chloroethane	91
Freon 11	90
Ethanol	112
Freon 113	94
1,1-Dichloroethene	101
Acetone	97
2-Propanol	99
Carbon Disulfide	83
3-Chloropropene	84
Methylene Chloride	98
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	89
Hexane	101
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	95
Tetrahydrofuran	103
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	94
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	101
Benzene	91
1,2-Dichloroethane	89
Heptane	94
Trichloroethene	89
1,2-Dichloropropane	93
1,4-Dioxane	90
Bromodichloromethane	90
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	100
Toluene	89
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	91
Tetrachloroethene	95
2-Hexanone	100

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Client Sample ID: CCV
Lab ID#: 1203557A-05A
EPA METHOD TO-15 GC/MS

File Name:	**14032802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 12:33 PM**	

Compound	%Recovery
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	93
Chlorobenzene	91
Ethyl Benzene	95
m,p-Xylene	96
o-Xylene	100
Styrene	102
Bromoform	103
Cumene	102
1,1,2,2-Tetrachloroethane	96
Propylbenzene	102
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	130
Hexachlorobutadiene	135 Q
Butane	83
Isopentane	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

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Air Toxics

Client Sample ID: CCV

Lab ID#: 1203557A-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3032802	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	3/28/12 03:52 PM

Compound	%Recovery
Freon 12	107
Freon 114	101
Chloromethane	106
Vinyl Chloride	98
1,3-Butadiene	103
Bromomethane	105
Chloroethane	108
Freon 11	102
Ethanol	100
Freon 113	106
1,1-Dichloroethene	100
Acetone	103
2-Propanol	99
Carbon Disulfide	100
3-Chloropropene	98
Methylene Chloride	105
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	100
Hexane	103
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	101
Tetrahydrofuran	106
Chloroform	104
1,1,1-Trichloroethane	105
Cyclohexane	106
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	104
Benzene	107
1,2-Dichloroethane	107
Heptane	108
Trichloroethene	106
1,2-Dichloropropane	104
1,4-Dioxane	104
Bromodichloromethane	108
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	109
Toluene	107
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	103
Tetrachloroethene	106
2-Hexanone	110

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Client Sample ID: CCV
Lab ID#: 1203557A-05B
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 03:52 PM**

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	103
Chlorobenzene	102
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	110
Styrene	109
Bromoform	104
Cumene	108
1,1,2,2-Tetrachloroethane	103
Propylbenzene	106
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	99
Butane	95
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS
Lab ID#: 1203557A-06A
EPA METHOD TO-15 GC/MS

File Name:	**14032803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 12:57 PM**	

Compound	%Recovery
Freon 12	120
Freon 114	120
Chloromethane	117
Vinyl Chloride	99
1,3-Butadiene	98
Bromomethane	97
Chloroethane	109
Freon 11	110
Ethanol	124
Freon 113	114
1,1-Dichloroethene	131 Q
Acetone	115
2-Propanol	120
Carbon Disulfide	124
3-Chloropropene	114
Methylene Chloride	116
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	120
Hexane	119
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	115
Tetrahydrofuran	116
Chloroform	110
1,1,1-Trichloroethane	112
Cyclohexane	113
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	117
Benzene	109
1,2-Dichloroethane	105
Heptane	107
Trichloroethene	106
1,2-Dichloropropane	109
1,4-Dioxane	105
Bromodichloromethane	108
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	118
Toluene	104
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	108
Tetrachloroethene	109
2-Hexanone	114

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Client Sample ID: LCS
Lab ID#: 1203557A-06A
EPA METHOD TO-15 GC/MS

File Name:	**14032803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 12:57 PM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	110
Chlorobenzene	106
Ethyl Benzene	109
m,p-Xylene	113
o-Xylene	116
Styrene	121
Bromoform	120
Cumene	121
1,1,2,2-Tetrachloroethane	114
Propylbenzene	120
4-Ethyltoluene	118
1,3,5-Trimethylbenzene	126
1,2,4-Trimethylbenzene	124
1,3-Dichlorobenzene	121
1,4-Dichlorobenzene	120
alpha-Chlorotoluene	134 Q
1,2-Dichlorobenzene	125
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	131 Q
Butane	93
Isopentane	116

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCSD
Lab ID#: 1203557A-06AA
EPA METHOD TO-15 GC/MS

File Name:	**14032804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 01:15 PM**	

Compound	%Recovery
Freon 12	119
Freon 114	117
Chloromethane	112
Vinyl Chloride	98
1,3-Butadiene	99
Bromomethane	93
Chloroethane	98
Freon 11	110
Ethanol	115
Freon 113	117
1,1-Dichloroethene	126
Acetone	115
2-Propanol	122
Carbon Disulfide	124
3-Chloropropene	120
Methylene Chloride	118
Methyl tert-butyl ether	117
trans-1,2-Dichloroethene	118
Hexane	120
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	117
Tetrahydrofuran	120
Chloroform	109
1,1,1-Trichloroethane	114
Cyclohexane	113
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	116
Benzene	110
1,2-Dichloroethane	107
Heptane	106
Trichloroethene	106
1,2-Dichloropropane	113
1,4-Dioxane	106
Bromodichloromethane	110
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	118
Toluene	104
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	110
Tetrachloroethene	108
2-Hexanone	116

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Client Sample ID: LCSD
Lab ID#: 1203557A-06AA
EPA METHOD TO-15 GC/MS

File Name:	**14032804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 01:15 PM**	

Compound	%Recovery
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	110
Chlorobenzene	108
Ethyl Benzene	110
m,p-Xylene	113
o-Xylene	116
Styrene	123
Bromoform	120
Cumene	119
1,1,2,2-Tetrachloroethane	113
Propylbenzene	120
4-Ethyltoluene	118
1,3,5-Trimethylbenzene	125
1,2,4-Trimethylbenzene	121
1,3-Dichlorobenzene	120
1,4-Dichlorobenzene	121
alpha-Chlorotoluene	135 Q
1,2-Dichlorobenzene	126
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	123
Butane	94
Isopentane	115

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS
Lab ID#: 1203557A-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 04:25 PM**	

Compound	%Recovery
Freon 12	113
Freon 114	108
Chloromethane	115
Vinyl Chloride	106
1,3-Butadiene	105
Bromomethane	110
Chloroethane	106
Freon 11	108
Ethanol	93
Freon 113	109
1,1-Dichloroethene	110
Acetone	109
2-Propanol	106
Carbon Disulfide	130
3-Chloropropene	118
Methylene Chloride	108
Methyl tert-butyl ether	117
trans-1,2-Dichloroethene	118
Hexane	108
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	110
Tetrahydrofuran	111
Chloroform	108
1,1,1-Trichloroethane	112
Cyclohexane	113
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	110
Benzene	112
1,2-Dichloroethane	113
Heptane	114
Trichloroethene	113
1,2-Dichloropropane	111
1,4-Dioxane	108
Bromodichloromethane	114
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	115
Toluene	110
trans-1,3-Dichloropropene	115
1,1,2-Trichloroethane	113
Tetrachloroethene	113
2-Hexanone	122

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Client Sample ID: LCS

Lab ID#: 1203557A-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 04:25 PM**	

Compound	%Recovery
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	113
Chlorobenzene	113
Ethyl Benzene	116
m,p-Xylene	119
o-Xylene	119
Styrene	119
Bromoform	109
Cumene	119
1,1,2,2-Tetrachloroethane	114
Propylbenzene	116
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	119
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	108
Butane	97
Isopentane	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1203557A-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 04:42 PM**	

Compound	%Recovery
Freon 12	108
Freon 114	105
Chloromethane	106
Vinyl Chloride	103
1,3-Butadiene	101
Bromomethane	105
Chloroethane	116
Freon 11	104
Ethanol	92
Freon 113	106
1,1-Dichloroethene	106
Acetone	106
2-Propanol	104
Carbon Disulfide	126
3-Chloropropene	116
Methylene Chloride	106
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	116
Hexane	105
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	108
Tetrahydrofuran	108
Chloroform	107
1,1,1-Trichloroethane	107
Cyclohexane	108
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	106
Benzene	112
1,2-Dichloroethane	110
Heptane	110
Trichloroethene	112
1,2-Dichloropropane	110
1,4-Dioxane	108
Bromodichloromethane	112
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	114
Toluene	110
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	108
Tetrachloroethene	112
2-Hexanone	116

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Client Sample ID: LCSD

Lab ID#: 1203557A-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3032804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/12 04:42 PM**	

Compound	%Recovery
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	111
Chlorobenzene	111
Ethyl Benzene	114
m,p-Xylene	116
o-Xylene	115
Styrene	115
Bromoform	106
Cumene	116
1,1,2,2-Tetrachloroethane	112
Propylbenzene	114
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	110
Butane	88
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

1203557

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SB&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 23-Mar-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS (Street and City): 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
EMAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): J. Hotopple, S. Wipfler, M. Cumler
TELEPHONE NO: 314-429-0100
FAX NO: 314-429-0462
EDD TO CONTACT E-MAIL: dave.gabner@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDC NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Dutene & Isopentane	Modified ASTM D-1945 + DTU	Modified TO-3 (5h)-TPHg	Sample PID (ppm)
01	HEADER-SVE-030812	3/8/12	900	34126	-29.5	-9			X	X	X	
02	HEADER-SVE-032312	3/23/12	1133	1364	-29.5	-9			X	X	X	
03	EXH-SVE-032312	3/23/12	955	37343	-29.5	-9			X	X	X	

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTERS 31796 AND 13389.

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	3/23/12	1700
Relinquished by (Signature)	Received by (Signature)	Date	Time
	B. Shattuck 3/26/12 0900		
Relinquished by (Signature)	Received by (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
Fedex

05/2005 Revision

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4/6/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203557B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203557B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/06/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-030812	Modified ASTM D-1945	9.0 "Hg	5 psi
02A	HEADER-SVE-032312	Modified ASTM D-1945	10.5 "Hg	5 psi
03A	EXH-SVE-032312	Modified ASTM D-1945	10.0 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1945	NA	NA
04B	Lab Blank	Modified ASTM D-1945	NA	NA
05A	LCS	Modified ASTM D-1945	NA	NA
05AA	LCSD	Modified ASTM D-1945	NA	NA
05B	LCS	Modified ASTM D-1945	NA	NA
05BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 04/06/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1203557B

Three 1 Liter Summa Canister samples were received on March 26, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Sample HEADER-SVE-030812 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations

that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	6.8
Nitrogen	0.19	78
Methane	0.00019	6.0
Carbon Dioxide	0.019	8.1
Ethane	0.0019	0.0018 J
Ethene	0.0019	0.00011 J
Propane	0.0019	0.0021
Isobutane	0.0019	0.034
Butane	0.0019	0.20
Neopentane	0.0019	0.0012 J
Isopentane	0.0019	0.30
Pentane	0.0019	0.091
C6+	0.019	0.56

Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	17
Nitrogen	0.21	78
Methane	0.00021	2.1
Carbon Dioxide	0.021	2.2
Ethane	0.0021	0.00060 J
Propane	0.0021	0.00078 J
Isobutane	0.0021	0.013
Butane	0.0021	0.10
Neopentane	0.0021	0.00065 J
Isopentane	0.0021	0.13
Pentane	0.0021	0.056
C6+	0.021	0.26

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Methane	0.00020	0.0016
Carbon Dioxide	0.020	0.84
Butane	0.0020	0.000068 J
Isopentane	0.0020	0.000094 J
C6+	0.020	0.00081 J

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Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032714**	**Date of Collection:**	**3/8/12 9:00:00 AM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**3/27/12 02:48 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	6.8
Nitrogen	0.19	78
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	6.0
Carbon Dioxide	0.019	8.1
Ethane	0.0019	0.0018 J
Ethene	0.0019	0.00011 J
Acetylene	0.0019	Not Detected
Propane	0.0019	0.0021
Isobutane	0.0019	0.034
Butane	0.0019	0.20
Neopentane	0.0019	0.0012 J
Isopentane	0.0019	0.30
Pentane	0.0019	0.091
C6+	0.019	0.56
Hydrogen	0.019	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 110

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032715**	**Date of Collection:**	**3/23/12 11:33:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**3/27/12 03:12 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	17
Nitrogen	0.21	78
Carbon Monoxide	0.021	Not Detected
Methane	0.00021	2.1
Carbon Dioxide	0.021	2.2
Ethane	0.0021	0.00060 J
Ethene	0.0021	Not Detected
Acetylene	0.0021	Not Detected
Propane	0.0021	0.00078 J
Isobutane	0.0021	0.013
Butane	0.0021	0.10
Neopentane	0.0021	0.00065 J
Isopentane	0.0021	0.13
Pentane	0.0021	0.056
C6+	0.021	0.26
Hydrogen	0.021	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 45

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032717**	**Date of Collection:**	**3/23/12 9:55:00 AM**
Dil. Factor:	**2.01**	**Date of Analysis:**	**3/27/12 03:57 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	0.0016
Carbon Dioxide	0.020	0.84
Ethane	0.0020	Not Detected
Ethene	0.0020	Not Detected
Acetylene	0.0020	Not Detected
Propane	0.0020	Not Detected
Isobutane	0.0020	Not Detected
Butane	0.0020	0.000068 J
Neopentane	0.0020	Not Detected
Isopentane	0.0020	0.000094 J
Pentane	0.0020	Not Detected
C6+	0.020	0.00081 J
Hydrogen	0.020	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.060

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1203557B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032705a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/27/12 10:01 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.011 J
Nitrogen	0.10	0.056 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1203557B-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9032704ba	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/27/12 09:40 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1203557B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/27/12 08:51 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	97
Carbon Dioxide	100
Ethane	98
Ethene	96
Acetylene	97
Propane	100
Isobutane	101
Butane	99
Neopentane	100
Isopentane	98
Pentane	98
C6+	94

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203557B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9032722**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/27/12 07:02 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	97
Methane	99
Carbon Dioxide	100
Ethane	100
Ethene	97
Acetylene	99
Propane	102
Isobutane	103
Butane	101
Neopentane	101
Isopentane	99
Pentane	99
C6+	95

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1203557B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9032723b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/27/12 08:07 PM	

Compound	%Recovery
Hydrogen	103

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1203557B-05BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9032724b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/27/12 08:34 PM	

Compound	%Recovery
Hydrogen	104

Container Type: NA - Not Applicable

1203557

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO # SAP # 340051
SAMPLING COMPANY: URS CORPORATION ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110 LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TELEPHONE: 314-429-0100 FAX: 314-429-0462 EDF TO CONTACT E-MAIL: dave.palmer@urs.com	SITE ADDRESS: Street and City: 600 SOUTH CENTRAL AVE -- ROXANA State: IL EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis PHONE NO.: 314-743-4178 E-MAIL: CONSULTANT PROJECT NAME: Roxana SVE O&M SAMPLER NAME(S) PRINTED: J. Holsapple, S. Wipfler, M. Cumler	INCIDENT # (ENV SERVICES): 97216640 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 23-Mar-12 PAGE 1 of 1

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDC NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
GH	HEADER-SVE-030812	3/8/12	900	34126	-29.5	-9			X	X	X		
GH	HEADER-SVE-032312	3/23/12	1133	1364	-29.5	-9			X	X	X		
GH	EXH-SVE-032312	3/23/12	955	37343	-29.5	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTERS 31796 AND 13389.

Relinquished by (Signature)	Received by (Signature): FEDEX	Date: 3/25/12	Time: 17:00
Relinquished by (Signature)	Received by (Signature): B. Whitehead 3/26/12 0900	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
Fedex

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4/10/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1203557C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 3/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203557C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	03/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/10/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-030812	Modified TO-3	9.0 "Hg	5 psi
02A	HEADER-SVE-032312	Modified TO-3	10.5 "Hg	5 psi
03A	EXH-SVE-032312	Modified TO-3	10.0 "Hg	5 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 04/10/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 , (800) 985-5955 , FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1203557C

Three 1 Liter Summa Canister samples were received on March 26, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample HEADER-SVE-030812 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	64	260	17000	70000

Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	69	280	8400	34000

Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.064	0.26	12	49

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Client Sample ID: HEADER-SVE-030812

Lab ID#: 1203557C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d040708**	**Date of Collection: 3/8/12 9:00:00 AM**	
Dil. Factor:	**2550**	**Date of Analysis: 4/7/12 12:22 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	64	260	17000	70000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

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Client Sample ID: HEADER-SVE-032312

Lab ID#: 1203557C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d040709	Date of Collection:	3/23/12 11:33:00 AM
Dil. Factor:	2750	Date of Analysis:	4/7/12 01:04 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	69	280	8400	34000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	85	75-150

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Client Sample ID: EXH-SVE-032312

Lab ID#: 1203557C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d040710	Date of Collection:	3/23/12 9:55:00 AM
Dil. Factor:	2.55	Date of Analysis:	4/7/12 02:24 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.064	0.26	12	49

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	105	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1203557C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d040706a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/7/12 10:46 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.013 J	0.053 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	82	75-150

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Client Sample ID: LCS

Lab ID#: 1203557C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d040711**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/12 03:05 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	111

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	86	75-150

1203557

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 5 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 23-Mar-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
SHIP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME/#: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): J. Holcapple, S. Wipfler, M. Currier

TELEPHONE: 314-429-0100
FAX: 314-429-0462
SEND REPORT E-MAIL: steve.pahler@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + DTU	Modified TO-3 (Sh)-TPHg	Sample PID (ppm)
01	HEADER-SVE-030812	3/8/12	900	34126	-29.5	-9			X	X	X	
02	HEADER-SVE-032312	3/23/12	1133	1364	-29.5	-9			X	X	X	
3A	EXH-SVE-032312	3/23/12	955	37343	-29.5	-9			X	X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE CANISTERS 31796 AND 13389.

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	3/23/12	17:00
	B. Whitehead 3/26/12 0900		

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
Fedex

01/2005 Revision

SVE System O&M 2012 Data Review

Laboratory SDG: 1204272A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 6/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
HEADER-SVE-032812

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample HEADER-SVE-030812 was received past the project recommended holding time of 14 days, but within the method specified holding time of 30 days. TO-15 LCS/LCSD recoveries were outside evaluation criteria. Sample HEADER-SVE-032812 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1204272A-02A	TO-15	1,3-Dichlorobenzene	1.1 ppbv / 6.5 µg/m^3
1204272A-02A	TO-15	1,4-Dichlorobenzene	1.4 ppbv / 8.4 µg/m^3
1204272A-02A	TO-15	alpha-Chlorotoluene	1.6 ppbv / 8.4 µg/m^3
1204272A-02A	TO-15	1,2-Dichlorobenzene	1.3 ppbv / 7.9 µg/m^3
1204272A-02A	TO-15	1,2,4-Trichlorobenzene	8.6 ppbv / 64 µg/m^3
1204272B-02A	TO-3	TPH (C2-C10) ref. to Gasoline	0.014 ppmv / 0.058 µg/L
1204272C-02A	ASTM D-1945	Oxygen	0.013 %
1204272C-02A	ASTM D-1945	Nitrogen	0.036 %

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1204272A-04A/AA	TO-15	alpha-Chlorotoluene	130/**132**	2	70-130/25
1204272A-04A/AA	TO-15	1,2,4-Trichlorobenzene	**134/140**	4	70-130/25
1204272A-04A/AA	TO-15	Hexachlorobutadiene	**155/148**	5	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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Air Toxics

4/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204272A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A/15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 4/27/2012

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Air Toxics

WORK ORDER #: 1204272A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	04/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-032812	Modified TO-14A/15 (5&20)	10.0 "Hg	5 psi
02A	Lab Blank	Modified TO-14A/15 (5&20)	NA	NA
03A	CCV	Modified TO-14A/15 (5&20)	NA	NA
04A	LCS	Modified TO-14A/15 (5&20)	NA	NA
04AA	LCSD	Modified TO-14A/15 (5&20)	NA	NA

CERTIFIED BY: _____ DATE: 04/26/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
URS Corporation
Workorder# 1204272A

One 1 Liter Summa Canister sample was received on April 13, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample HEADER-SVE-032812 was received past the recommended hold time of 14 days. Analysis proceeded within the 30-day holding time.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample HEADER-SVE-032812 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Air Toxics

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1000	220000	3500	760000
Cyclohexane	1000	56000	3400	190000
2,2,4-Trimethylpentane	1000	150000	4700	700000
Benzene	1000	19000	3200	61000
Heptane	1000	46000	4100	190000
Toluene	1000	16000	3800	60000
Tetrachloroethene	1000	140 J	6800	960 J
Ethyl Benzene	1000	4200	4400	18000
m,p-Xylene	1000	7900	4400	34000
o-Xylene	1000	1400	4400	6000
Cumene	1000	230 J	4900	1100 J
Propylbenzene	1000	300 J	4900	1500 J
4-Ethyltoluene	1000	540 J	4900	2700 J
1,3,5-Trimethylbenzene	1000	190 J	4900	920 J
1,2,4-Trimethylbenzene	1000	350 J	4900	1700 J
Butane	4000	700000	9600	1700000
Isopentane	4000	980000	12000	2900000

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Air Toxics

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272A-01A

EPA METHOD TO-15 GC/MS

File Name:	14041407	Date of Collection:	3/28/12 10:58:00 AM
Dil. Factor:	201	Date of Analysis:	4/14/12 01:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1000	Not Detected	5000	Not Detected
Freon 114	1000	Not Detected	7000	Not Detected
Chloromethane	4000	Not Detected	8300	Not Detected
Vinyl Chloride	1000	Not Detected	2600	Not Detected
1,3-Butadiene	1000	Not Detected	2200	Not Detected
Bromomethane	1000	Not Detected	3900	Not Detected
Chloroethane	4000	Not Detected	11000	Not Detected
Freon 11	1000	Not Detected	5600	Not Detected
Ethanol	4000	Not Detected	7600	Not Detected
Freon 113	1000	Not Detected	7700	Not Detected
1,1-Dichloroethene	1000	Not Detected	4000	Not Detected
Acetone	4000	Not Detected	9500	Not Detected
2-Propanol	4000	Not Detected	9900	Not Detected
Carbon Disulfide	1000	Not Detected	3100	Not Detected
3-Chloropropene	4000	Not Detected	12000	Not Detected
Methylene Chloride	1000	Not Detected	3500	Not Detected
Methyl tert-butyl ether	1000	Not Detected	3600	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Hexane	1000	220000	3500	760000
1,1-Dichloroethane	1000	Not Detected	4100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4000	Not Detected	12000	Not Detected
cis-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Tetrahydrofuran	1000	Not Detected	3000	Not Detected
Chloroform	1000	Not Detected	4900	Not Detected
1,1,1-Trichloroethane	1000	Not Detected	5500	Not Detected
Cyclohexane	1000	56000	3400	190000
Carbon Tetrachloride	1000	Not Detected	6300	Not Detected
2,2,4-Trimethylpentane	1000	150000	4700	700000
Benzene	1000	19000	3200	61000
1,2-Dichloroethane	1000	Not Detected	4100	Not Detected
Heptane	1000	46000	4100	190000
Trichloroethene	1000	Not Detected	5400	Not Detected
1,2-Dichloropropane	1000	Not Detected	4600	Not Detected
1,4-Dioxane	4000	Not Detected	14000	Not Detected
Bromodichloromethane	1000	Not Detected	6700	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4600	Not Detected
4-Methyl-2-pentanone	1000	Not Detected	4100	Not Detected
Toluene	1000	16000	3800	60000
trans-1,3-Dichloropropene	1000	Not Detected	4600	Not Detected
1,1,2-Trichloroethane	1000	Not Detected	5500	Not Detected
Tetrachloroethene	1000	140 J	6800	960 J
2-Hexanone	4000	Not Detected	16000	Not Detected

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Air Toxics

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272A-01A

EPA METHOD TO-15 GC/MS

File Name:	14041407	Date of Collection:	3/28/12 10:58:00 AM
Dil. Factor:	201	Date of Analysis:	4/14/12 01:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1000	Not Detected	8600	Not Detected
1,2-Dibromoethane (EDB)	1000	Not Detected	7700	Not Detected
Chlorobenzene	1000	Not Detected	4600	Not Detected
Ethyl Benzene	1000	4200	4400	18000
m,p-Xylene	1000	7900	4400	34000
o-Xylene	1000	1400	4400	6000
Styrene	1000	Not Detected	4300	Not Detected
Bromoform	1000	Not Detected	10000	Not Detected
Cumene	1000	230 J	4900	1100 J
1,1,2,2-Tetrachloroethane	1000	Not Detected	6900	Not Detected
Propylbenzene	1000	300 J	4900	1500 J
4-Ethyltoluene	1000	540 J	4900	2700 J
1,3,5-Trimethylbenzene	1000	190 J	4900	920 J
1,2,4-Trimethylbenzene	1000	350 J	4900	1700 J
1,3-Dichlorobenzene	1000	Not Detected	6000	Not Detected
1,4-Dichlorobenzene	1000	Not Detected	6000	Not Detected
alpha-Chlorotoluene	4000	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	1000	Not Detected	6000	Not Detected
1,2,4-Trichlorobenzene	4000	Not Detected	30000	Not Detected
Hexachlorobutadiene	4000	Not Detected	43000	Not Detected
Butane	4000	700000	9600	1700000
Isopentane	4000	980000	12000	2900000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: Lab Blank

Lab ID#: 1204272A-02A

EPA METHOD TO-15 GC/MS

File Name:	14041405a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 12:49 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1204272A-02A

EPA METHOD TO-15 GC/MS

File Name:	14041405a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 12:49 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	1.1 J	30	6.5 J
1,4-Dichlorobenzene	5.0	1.4 J	30	8.4 J
alpha-Chlorotoluene	20	1.6 J	100	8.4 J
1,2-Dichlorobenzene	5.0	1.3 J	30	7.9 J
1,2,4-Trichlorobenzene	20	8.6 J	150	64 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

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Air Toxics

Client Sample ID: CCV

Lab ID#: 1204272A-03A

EPA METHOD TO-15 GC/MS

File Name:	14041402	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 11:43 AM	

Compound	%Recovery
Freon 12	98
Freon 114	98
Chloromethane	91
Vinyl Chloride	78
1,3-Butadiene	80
Bromomethane	91
Chloroethane	92
Freon 11	88
Ethanol	113
Freon 113	86
1,1-Dichloroethene	95
Acetone	94
2-Propanol	96
Carbon Disulfide	82
3-Chloropropene	82
Methylene Chloride	96
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	85
Hexane	97
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	85
cis-1,2-Dichloroethene	91
Tetrahydrofuran	101
Chloroform	86
1,1,1-Trichloroethane	88
Cyclohexane	88
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	95
Benzene	88
1,2-Dichloroethane	86
Heptane	86
Trichloroethene	85
1,2-Dichloropropane	89
1,4-Dioxane	86
Bromodichloromethane	87
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	96
Toluene	86
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	88
Tetrachloroethene	90
2-Hexanone	96

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Client Sample ID: CCV

Lab ID#: 1204272A-03A

EPA METHOD TO-15 GC/MS

File Name:	14041402	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 11:43 AM	

Compound	%Recovery
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	91
Chlorobenzene	88
Ethyl Benzene	91
m,p-Xylene	92
o-Xylene	92
Styrene	100
Bromoform	102
Cumene	98
1,1,2,2-Tetrachloroethane	93
Propylbenzene	97
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	125
Butane	77
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: LCS

Lab ID#: 1204272A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14041403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 12:05 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	111
Chloromethane	108
Vinyl Chloride	88
1,3-Butadiene	88
Bromomethane	100
Chloroethane	105
Freon 11	99
Ethanol	114
Freon 113	97
1,1-Dichloroethene	117
Acetone	104
2-Propanol	107
Carbon Disulfide	114
3-Chloropropene	102
Methylene Chloride	108
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	110
Hexane	108
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	101
Tetrahydrofuran	106
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	100
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	106
Benzene	99
1,2-Dichloroethane	95
Heptane	96
Trichloroethene	96
1,2-Dichloropropane	102
1,4-Dioxane	92
Bromodichloromethane	98
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	106
Toluene	94
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	99
Tetrachloroethene	100
2-Hexanone	102

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Air Toxics

Client Sample ID: LCS
Lab ID#: 1204272A-04A
EPA METHOD TO-15 GC/MS

File Name:	14041403	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 12:05 PM	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	98
Ethyl Benzene	101
m,p-Xylene	103
o-Xylene	108
Styrene	112
Bromoform	112
Cumene	111
1,1,2,2-Tetrachloroethane	106
Propylbenzene	112
4-Ethyltoluene	122
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	119
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	130
1,2-Dichlorobenzene	120
1,2,4-Trichlorobenzene	134 Q
Hexachlorobutadiene	155 Q
Butane	85
Isopentane	107

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

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Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204272A-04AA

EPA METHOD TO-15 GC/MS

File Name:	**14041404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 12:25 PM**	

Compound	%Recovery
Freon 12	109
Freon 114	111
Chloromethane	104
Vinyl Chloride	88
1,3-Butadiene	90
Bromomethane	103
Chloroethane	102
Freon 11	98
Ethanol	103
Freon 113	98
1,1-Dichloroethene	115
Acetone	106
2-Propanol	108
Carbon Disulfide	116
3-Chloropropene	107
Methylene Chloride	106
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	108
Hexane	109
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	103
Tetrahydrofuran	106
Chloroform	98
1,1,1-Trichloroethane	101
Cyclohexane	100
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	106
Benzene	99
1,2-Dichloroethane	94
Heptane	96
Trichloroethene	97
1,2-Dichloropropane	101
1,4-Dioxane	92
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	107
Toluene	95
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	99
Tetrachloroethene	101
2-Hexanone	103

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Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204272A-04AA

EPA METHOD TO-15 GC/MS

File Name:	**14041404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 12:25 PM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	104
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	105
o-Xylene	107
Styrene	113
Bromoform	112
Cumene	112
1,1,2,2-Tetrachloroethane	106
Propylbenzene	113
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	126
1,2,4-Trimethylbenzene	120
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	120
1,2,4-Trichlorobenzene	140 Q
Hexachlorobutadiene	148 Q
Butane	83
Isopentane	108

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

1204272

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE 12-Apr-12
PAGE 1 of 1
PO #
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS, Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL
CONSULTANT PROJECT NAME: Roxana SVE O&M

LAB/VENDOR ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wistler, M. Currier

TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDD TO (Contact E-MAIL): dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (SH)-TPHg		Sample PID (ppm)
01A	HEADER-SVE-032812	3/28/12	1058	2169	-29.5	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

		Date	Time
Relinquished by (Signature)	Received by (Signature) FEDEX	4/12/12	1800
Relinquished by (Signature)	Received by (Signature)	4.13.12	
Relinquished by (Signature)	Received by (Signature)		

05/2001 Revision

Fedex
CUSTODY SEAL INTACT? Y N NONE FOUND

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Air Toxics

4/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204272B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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Air Toxics

WORK ORDER #: 1204272B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	04/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-032812	Modified TO-3	10.0 "Hg	5 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 04/26/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1204272B

One 1 Liter Summa Canister sample was received on April 13, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample HEADER-SVE-032812 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Sample HEADER-SVE-032812 was received 16 days after sample collection. Analysis proceeded

within 30-day from date of collection.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	20	82	7700	32000

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Air Toxics

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041317	Date of Collection:	3/28/12 10:58:00 AM
Dil. Factor:	804	Date of Analysis:	4/13/12 08:22 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	20	82	7700	32000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1204272B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041306a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/13/12 11:57 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.014 J	0.058 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

Client Sample ID: LCS

Lab ID#: 1204272B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041303	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/13/12 08:03 AM	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	83	75-150

1204272

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12-Apr-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS, Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110
CC* DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom CA 95630-4719
SAMPLER NAME(S) (Print): S. Wiofler, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
cc* E-mail: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	HEADER-SVE-032812	3/28/12	1058	2169	-29.5	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	4/12/12	1800
Relinquished by (Signature)	Received by (Signature)	Date	Time
	4.13.12	4.13.12	
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2009 Revision

FedEx
CUSTODY SEAL INTACT? Y N NONE TEMP 4

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4/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204272C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1204272C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	04/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HEADER-SVE-032812	Modified ASTM D-1945	10.0 "Hg	5 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 04/26/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act.
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1204272C

One 1 Liter Summa Canister sample was received on April 13, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Sample HEADER-SVE-032812 was received 16 days after sample collection. Analysis proceeded within 30-day from date of collection.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272C-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	17
Nitrogen	0.20	78
Methane	0.00020	2.0
Carbon Dioxide	0.020	2.2
Ethane	0.0020	0.00060 J
Propane	0.0020	0.00075 J
Isobutane	0.0020	0.012
Butane	0.0020	0.095
Neopentane	0.0020	0.00042 J
Isopentane	0.0020	0.12
Pentane	0.0020	0.040
C6+	0.020	0.26

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Client Sample ID: HEADER-SVE-032812

Lab ID#: 1204272C-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9041416**	**Date of Collection:**	**3/28/12 10:58:00 AM**
Dil. Factor:	**2.01**	**Date of Analysis:**	**4/14/12 02:19 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	17
Nitrogen	0.20	78
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	2.0
Carbon Dioxide	0.020	2.2
Ethane	0.0020	0.00060 J
Ethene	0.0020	Not Detected
Acetylene	0.0020	Not Detected
Propane	0.0020	0.00075 J
Isobutane	0.0020	0.012
Butane	0.0020	0.095
Neopentane	0.0020	0.00042 J
Isopentane	0.0020	0.12
Pentane	0.0020	0.040
C6+	0.020	0.26
Hydrogen	0.020	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 42

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1204272C-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9041406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 09:59 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.036 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1204272C-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9041405b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 09:19 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1204272C-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9041402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 07:58 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	97
Carbon Dioxide	101
Ethane	99
Ethene	96
Acetylene	98
Propane	101
Isobutane	102
Butane	100
Neopentane	101
Isopentane	99
Pentane	99
C6+	95

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1204272C-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9041417**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/12 02:42 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	96
Methane	97
Carbon Dioxide	101
Ethane	99
Ethene	96
Acetylene	97
Propane	101
Isobutane	102
Butane	100
Neopentane	101
Isopentane	100
Pentane	100
C6+	96

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1204272C-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9041404b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 08:53 AM	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1204272C-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9041418b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/14/12 03:09 PM	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

120427 2

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 12-Apr-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS, Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) PRINT: S. Wipfler, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDF DELIVERABLE TO CONTACT E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)- TPHg		Sample PID (ppm)
DUP	HEADER-SVE-032812	3/28/12	1058	2169	-29.5	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	4/12/12	1800
Relinquished by (Signature)	Received by (Signature)	Date	Time
	ATL 4.13.12	4.13.12	9 am
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2006 Revision

Ted Ea
CUSTODY SEAL INTACT? Y N NONE TSUP

SVE System O&M 2012 Data Review

Laboratory SDG: 1204612A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 6/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-04192012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, although not indicated in the laboratory case narrative, TO-15 LCS/LCSD recoveries for ethanol were outside evaluation criteria. Analytes were detected in the TO-15, ASTM D-1945, and TO-3 method blanks. Professional judgment was used to qualify 4-ethyltoluene in sample EXH-SVE-04192012 due to co-elution with a non-target compound. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1204612A-02A	TO-15	Chloromethane	0.96 ppbv / 2.0 µg/m^3
1204612A-02A	TO-15	Carbon disulfide	0.38 ppbv / 1.2 µg/m^3
1204612A-02A	TO-15	1,1,1-Trichloroethane	0.049 ppbv / 0.27 µg/m^3
1204612A-02A	TO-15	1,2-Dichloroethane	0.12 ppbv / 0.50 µg/m^3
1204612A-02A	TO-15	1,4-Dichlorobenzene	0.16 ppbv / 0.98 µg/m^3
1204612A-02A	TO-15	1,2,4-Trichlorobenzene	0.53 ppbv / 4.0 µg/m^3
1204612B-02A	ASTM D-1945	Oxygen	0.013 %
1204612B-02A	ASTM D-1945	Nitrogen	0.054 %
1204612B-02A	ASTM D-1945	C6+	0.00024 %
1204612C-02A	TO-3	TPH (C2-C10) ref. to Gasoline	0.018 ppmv / 0.074 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-04192012	TO-15	Carbon disulfide	-	**U**
EXH-SVE-04192012	TO-15	1,2-Dichloroethane	-	**U**
EXH-SVE-04192012	TO-15	1,4-Dichlorobenzene	-	**U**
EXH-SVE-04192012	TO-15	1,2,4-Trichlorobenzene	-	**U**
EXH-SVE-04192012	ASTM D-1945	C6+	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1204612A-04A/AA	TO-15	Ethanol	**57/56**	2	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
EXH-SVE-04192012	TO-15	Ethanol	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was used to qualify 4-ethyltoluene due to co-elution with a non-target compound.

Field ID	Parameter	Analyte	Qualification
EXH-SVE-04192012	TO-15	4-Ethyltoluene	**J**

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5/11/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204612A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/27/2012

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1204612A

One 1 Liter Summa Canister sample was received on April 28, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

The reported result for 4-Ethyltoluene in sample EXH-SVE-04192012 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Air Toxics

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	3.9	9.2 J	7.4	17 J
Acetone	9.8	26	23	63
2-Propanol	3.9	1.8 J	9.6	4.4 J
Carbon Disulfide	3.9	~~0.71 J~~ U	12	~~2.2 J~~ U
Methylene Chloride	9.8	0.60 J	34	2.1 J
Hexane	0.98	66	3.4	230
2-Butanone (Methyl Ethyl Ketone)	3.9	5.8	12	17
Cyclohexane	0.98	29	3.4	100
2,2,4-Trimethylpentane	0.98	86	4.6	400
Benzene	0.98	44	3.1	140
1,2-Dichloroethane	0.98	~~0.30 J~~ U	4.0	~~1.2 J~~ U
Heptane	0.98	36	4.0	150
Trichloroethene	0.98	1.7	5.3	9.0
4-Methyl-2-pentanone	0.98	10	4.0	41
Toluene	0.98	51	3.7	190
Ethyl Benzene	0.98	38	4.2	160
m,p-Xylene	0.98	93	4.2	400
o-Xylene	0.98	25	4.2	110
Cumene	0.98	6.8	4.8	33
Propylbenzene	0.98	6.8	4.8	34
4-Ethyltoluene	0.98	19 J	4.8	94 J
1,3,5-Trimethylbenzene	0.98	6.5	4.8	32
1,2,4-Trimethylbenzene	0.98	17	4.8	84
1,4-Dichlorobenzene	0.98	~~0.41 J~~ U	5.9	~~2.4 J~~ U
1,2,4-Trichlorobenzene	3.9	~~0.55 J~~ U	29	~~4.1 J~~ U
Butane	3.9	130	9.3	320
Isopentane	3.9	180	12	540

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Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043013**	**Date of Collection:**	**4/19/12 10:55:00 AM**
Dil. Factor:	**1.96**	**Date of Analysis:**	**4/30/12 04:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.98	Not Detected	4.8	Not Detected
Freon 114	0.98	Not Detected	6.8	Not Detected
Chloromethane	9.8	Not Detected	20	Not Detected
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Bromomethane	9.8	Not Detected	38	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
Ethanol	3.9	9.2 J	7.4	17 J
Freon 113	0.98	Not Detected	7.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Acetone	9.8	26	23	63
2-Propanol	3.9	1.8 J	9.6	4.4 J
Carbon Disulfide	3.9	~~0.71 J~~ U	12	~~2.2 J~~ U
3-Chloropropene	3.9	Not Detected	12	Not Detected
Methylene Chloride	9.8	0.60 J	34	2.1 J
Methyl tert-butyl ether	0.98	Not Detected	3.5	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Hexane	0.98	66	3.4	230
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.9	5.8	12	17
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
Chloroform	0.98	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Cyclohexane	0.98	29	3.4	100
Carbon Tetrachloride	0.98	Not Detected	6.2	Not Detected
2,2,4-Trimethylpentane	0.98	86	4.6	400
Benzene	0.98	44	3.1	140
1,2-Dichloroethane	0.98	~~0.30 J~~ U	4.0	~~1.2 J~~ U
Heptane	0.98	36	4.0	150
Trichloroethene	0.98	1.7	5.3	9.0
1,2-Dichloropropane	0.98	Not Detected	4.5	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
Bromodichloromethane	0.98	Not Detected	6.6	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
4-Methyl-2-pentanone	0.98	10	4.0	41
Toluene	0.98	51	3.7	190
trans-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Tetrachloroethene	0.98	Not Detected	6.6	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected

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Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043013**	**Date of Collection: 4/19/12 10:55:00 AM**	
Dil. Factor:	**1.96**	**Date of Analysis: 4/30/12 04:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.98	Not Detected	8.3	Not Detected
1,2-Dibromoethane (EDB)	0.98	Not Detected	7.5	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
Ethyl Benzene	0.98	38	4.2	160
m,p-Xylene	0.98	93	4.2	400
o-Xylene	0.98	25	4.2	110
Styrene	0.98	Not Detected	4.2	Not Detected
Bromoform	0.98	Not Detected	10	Not Detected
Cumene	0.98	6.8	4.8	33
1,1,2,2-Tetrachloroethane	0.98	Not Detected	6.7	Not Detected
Propylbenzene	0.98	6.8	4.8	34
4-Ethyltoluene	0.98	19 J	4.8	94 J
1,3,5-Trimethylbenzene	0.98	6.5	4.8	32
1,2,4-Trimethylbenzene	0.98	17	4.8	84
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	~~0.41 J~~ U	5.9	~~2.4 J~~ U
alpha-Chlorotoluene	0.98	Not Detected	5.1	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,2,4-Trichlorobenzene	3.9	~~0.55 J~~ U	29	~~4.1 J~~ U
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected
Butane	3.9	130	9.3	320
Isopentane	3.9	180	12	540

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: Lab Blank

Lab ID#: 1204612A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p043007d	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	4/30/12 11:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	0.96 J	10	2.0 J
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.38 J	6.2	1.2 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	0.049 J	2.7	0.27 J
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.12 J	2.0	0.50 J
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: I204612A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043007d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 11:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	0.16 J	3.0	0.98 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.53 J	15	4.0 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV
Lab ID#: 1204612A-03A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p043002	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	4/30/12 09:00 AM

Compound	%Recovery
Freon 12	114
Freon 114	102
Chloromethane	121
Vinyl Chloride	100
1,3-Butadiene	96
Bromomethane	98
Chloroethane	95
Freon 11	115
Ethanol	88
Freon 113	101
1,1-Dichloroethene	94
Acetone	89
2-Propanol	94
Carbon Disulfide	88
3-Chloropropene	93
Methylene Chloride	95
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	94
Hexane	91
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	96
Tetrahydrofuran	99
Chloroform	107
1,1,1-Trichloroethane	115
Cyclohexane	99
Carbon Tetrachloride	116
2,2,4-Trimethylpentane	112
Benzene	104
1,2-Dichloroethane	113
Heptane	109
Trichloroethene	98
1,2-Dichloropropane	109
1,4-Dioxane	103
Bromodichloromethane	109
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	119
Toluene	110
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	102
Tetrachloroethene	105
2-Hexanone	102

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Client Sample ID: CCV

Lab ID#: 1204612A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 09:00 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	107
Chlorobenzene	106
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	110
Styrene	110
Bromoform	110
Cumene	110
1,1,2,2-Tetrachloroethane	114
Propylbenzene	109
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	121
Butane	97
Isopentane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCS
Lab ID#: 1204612A-04A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 09:39 AM**	

Compound	%Recovery
Freon 12	109
Freon 114	98
Chloromethane	114
Vinyl Chloride	97
1,3-Butadiene	92
Bromomethane	93
Chloroethane	92
Freon 11	108
Ethanol	57 Q
Freon 113	96
1,1-Dichloroethene	92
Acetone	81
2-Propanol	89
Carbon Disulfide	104
3-Chloropropene	102
Methylene Chloride	91
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	101
Hexane	86
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	89
Tetrahydrofuran	87
Chloroform	101
1,1,1-Trichloroethane	109
Cyclohexane	94
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	102
Benzene	97
1,2-Dichloroethane	104
Heptane	102
Trichloroethene	93
1,2-Dichloropropane	103
1,4-Dioxane	95
Bromodichloromethane	104
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	110
Toluene	102
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	99
Tetrachloroethene	99
2-Hexanone	100

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Client Sample ID: LCS

Lab ID#: 1204612A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 09:39 AM**	

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	103
Chlorobenzene	102
Ethyl Benzene	103
m,p-Xylene	105
o-Xylene	106
Styrene	107
Bromoform	105
Cumene	106
1,1,2,2-Tetrachloroethane	110
Propylbenzene	105
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	114
Butane	88
Isopentane	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD
Lab ID#: 1204612A-04AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043004**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 09:56 AM**

Compound	%Recovery
Freon 12	105
Freon 114	95
Chloromethane	112
Vinyl Chloride	95
1,3-Butadiene	91
Bromomethane	91
Chloroethane	89
Freon 11	104
Ethanol	56 Q
Freon 113	95
1,1-Dichloroethene	94
Acetone	79
2-Propanol	89
Carbon Disulfide	104
3-Chloropropene	101
Methylene Chloride	90
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	102
Hexane	86
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	92
Tetrahydrofuran	91
Chloroform	103
1,1,1-Trichloroethane	109
Cyclohexane	94
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	108
Benzene	98
1,2-Dichloroethane	104
Heptane	101
Trichloroethene	94
1,2-Dichloropropane	103
1,4-Dioxane	95
Bromodichloromethane	101
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	107
Toluene	101
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	97
Tetrachloroethene	99
2-Hexanone	95

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Client Sample ID: LCSD
Lab ID#: 1204612A-04AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p043004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/12 09:56 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	101
Chlorobenzene	101
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	106
Styrene	105
Bromoform	101
Cumene	106
1,1,2,2-Tetrachloroethane	110
Propylbenzene	105
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	117
Butane	88
Isopentane	86

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	106	70-130

1204612

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOLOC ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshogian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE 27-Apr-12
PO #
SAP # 3 4 0 0 6 1
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
SITE ADDRESS Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID #:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
LAB DELIVERABLE TO (NAME, COMPANY, STREET, CITY/STATE/ZIP): Elizabeth Kunkel, URS, St Louis
PHONE NO: 314-743-4178
EMAIL:
CONSULTANT PROJECT NAME #: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT EMAIL: steve.palmer@urs.com
SAMPLER NAME(S) (PRINT): S Wafler M Cutler

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (5h)-TPHg		Sample PID (ppm)
04	EXH-SVE-04192012	4/19/12	1055	838	-30	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	4/27/12	
Relinquished by (Signature)	Received by (Signature)	4.28.12	1055
Relinquished by (Signature)	Received by (Signature)		

Custody Seal Intact?
Y N None Temp NA

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5/14/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204612B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1204612B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	04/28/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/14/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-04192012	Modified ASTM D-1945	9.5 "Hg	5 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 05/14/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act.
Accreditation number: E87680. Effective date: 07/01/11 . Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1204612B

One 1 Liter Summa Canister sample was received on April 28, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical colnmn employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXII-SVE-04192012

Lab ID#: 1204612B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.34	20
Nitrogen	0.34	79
Methane	0.00034	0.00042
Carbon Dioxide	0.034	0.77
C6+	0.034	0.00072 J

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Air Toxics

Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9050408**	**Date of Collection:**	**4/19/12 10:55:00 AM**
Dil. Factor:	**3.40**	**Date of Analysis:**	**5/3/12 09:05 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.34	20
Nitrogen	0.34	79
Carbon Monoxide	0.034	Not Detected
Methane	0.00034	0.00042
Carbon Dioxide	0.034	0.77
Ethane	0.0034	Not Detected
Ethene	0.0034	Not Detected
Acetylene	0.0034	Not Detected
Propane	0.0034	Not Detected
Isobutane	0.0034	Not Detected
Butane	0.0034	Not Detected
Neopentane	0.0034	Not Detected
Isopentane	0.0034	Not Detected
Pentane	0.0034	Not Detected
C6+	0.034	0.00072 J
Hydrogen	0.034	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.038

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1204612B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9050407c	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/3/12 08:34 PM	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.054 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	0.00024 J

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1204612B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9050405bc	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/3/12 07:32 PM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1204612B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9050402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/12 05:26 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	99
Carbon Dioxide	101
Ethane	101
Ethene	98
Acetylene	99
Propane	103
Isobutane	103
Butane	101
Neopentane	102
Isopentane	100
Pentane	99
C6+	96

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1204612B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9050430	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	5/4/12 06:24 AM

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	100
Ethane	100
Ethene	97
Acetylene	98
Propane	102
Isobutane	103
Butane	101
Neopentane	102
Isopentane	100
Pentane	100
C6+	96

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1204612B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9050404b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/3/12 06:56 PM	

Compound	%Recovery
Hydrogen	101

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1204612B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9050432b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/4/12 08:07 AM	

Compound	%Recovery
Hydrogen	97

Container Type: NA - Not Applicable

1204612

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 3 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 27-Apr-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
LABORATORY NAME: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
DATA TO CONTACT E-MAIL: dave.palmer@urs.com

SITE ADDRESS: Street and City: 908 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID #:
EDF DELIVERABLE TO (NAME, COMPANY, LOCATION): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
EMAIL:
CONSULTANT PROJECT NAME: Roxana SVE O&M
SAMPLER NAME(S) PRINT: S. Wafer, M. Currier

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
04	EXH-SVE-04192012	4/19/12	1055	838	-30	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	4/27/12	
		4/28/12	1055

Custody Seal Intact?
☒N None Temp NA

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5/11/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1204612C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 4/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1204612C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	04/28/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/11/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-04192012	Modified TO-3	9.5 "Hg	5 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 05/11/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1204612C

One 1 Liter Summa Canister sample was received on April 28, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.066	0.27	4.8	20

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Client Sample ID: EXH-SVE-04192012

Lab ID#: 1204612C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050110	Date of Collection:	4/19/12 10:55:00 AM
Dil. Factor:	2.63	Date of Analysis:	5/1/12 04:35 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.066	0.27	4.8	20

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1204612C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050105a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/1/12 12:19 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.018 J	0.074 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: LCS

Lab ID#: 1204612C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050102	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/1/12 09:44 AM	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	87	75-150

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Client Sample ID: LCSD

Lab ID#: 1204612C-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d050113**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/1/12 07:11 PM**	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150

1204612

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moshogian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 27-Apr-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS Street and City: 908 SOUTH CENTRAL AVE -- ROXANA
State: IL
QUOTE #:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
SHIP TO: Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4178
E-MAIL:
PROJECT CONTACT (NAME) FOR RESULTS: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): S. Wisher M. Cunler

TELEPHONE: 314-429-0100
FAX: 314-429-0462
DO TO CONTACT EMAIL: steve.wisher@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (4 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (5h)-TPHg		Sample PID (ppm)
04	EXH-SVE-04192012	4/19/12	1055	838	-30	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify
Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	4/27/12	
		4/28/12	1055

Custody Seal Intact?
☒N None Temp NA

SVE System O&M 2012 Data Review

Laboratory SDG: 1206038A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 6/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-05172012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-05172012 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the TO-15, ASTM D-1945, and TO-3 method blanks. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated sample EXH-SVE-05172012 was received past the project requested holding time of 14 days. Sample EXH-SVE-05172012 was analyzed within the 30 day analyses holding times for those methods; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes, however sample EXH-SVE-05172012 was analyzed for TO-15 VOCs four days outside the requested 14-day hold time, natural gases five days outside the requested 14-day hold time, and TPH four days outside the requested 14-day hold time; no qualification of data was required.

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1206038A-02A	TO-15	Ethanol	6.2 ppbv / 12 µg/m^3
1206038A-02A	TO-15	1,2,4-Trichlorobenzene	5.5 ppbv / 40 µg/m^3
1206038B-02A	ASTM D-1945	Ocygen	0.014 %
1206038B-02A	ASTM D-1945	Nitrogen	0.071 %
1206038B-02A	ASTM D-1945	C6+	0.000053 %
1206038C-02A	TO-3	TPH (C2-C10) ref. to Gasoline	0.015 ppmv / 0.061 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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6/17/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1206038A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/27/2012

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WORK ORDER #: 1206038A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	06/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	06/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-05172012	Modified TO-15	9.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 06/17/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1206038A

One 1 Liter Summa Canister sample was received on June 02, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample EXH-SVE-05172012 was received past the project required 14-day hold time. Analysis proceeded within the method specified 30-day hold time.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-05172012 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	150	36 J	360	85 J
Hexane	38	4200	130	15000
Cyclohexane	38	1000	130	3600
2,2,4-Trimethylpentane	38	2900	180	14000
Benzene	38	610	120	1900
Heptane	38	950	160	3900
Toluene	38	220	140	840
Ethyl Benzene	38	40	160	170
m,p-Xylene	38	72	160	310
o-Xylene	38	12 J	160	52 J
Butane	150	21000	360	50000
Isopentane	150	25000	450	74000

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Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14060428**	**Date of Collection:**	**5/17/12 9:21:00 AM**
Dil. Factor:	**7.64**	**Date of Analysis:**	**6/4/12 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	38	Not Detected	190	Not Detected
Freon 114	38	Not Detected	270	Not Detected
Chloromethane	150	Not Detected	320	Not Detected
Vinyl Chloride	38	Not Detected	98	Not Detected
1,3-Butadiene	38	Not Detected	84	Not Detected
Bromomethane	38	Not Detected	150	Not Detected
Chloroethane	150	Not Detected	400	Not Detected
Freon 11	38	Not Detected	210	Not Detected
Ethanol	150	Not Detected	290	Not Detected
Freon 113	38	Not Detected	290	Not Detected
1,1-Dichloroethene	38	Not Detected	150	Not Detected
Acetone	150	36 J	360	85 J
2-Propanol	150	Not Detected	380	Not Detected
Carbon Disulfide	38	Not Detected	120	Not Detected
3-Chloropropene	150	Not Detected	480	Not Detected
Methylene Chloride	38	Not Detected	130	Not Detected
Methyl tert-butyl ether	38	Not Detected	140	Not Detected
trans-1,2-Dichloroethene	38	Not Detected	150	Not Detected
Hexane	38	4200	130	15000
1,1-Dichloroethane	38	Not Detected	150	Not Detected
2-Butanone (Methyl Ethyl Ketone)	150	Not Detected	450	Not Detected
cis-1,2-Dichloroethene	38	Not Detected	150	Not Detected
Tetrahydrofuran	38	Not Detected	110	Not Detected
Chloroform	38	Not Detected	190	Not Detected
1,1,1-Trichloroethane	38	Not Detected	210	Not Detected
Cyclohexane	38	1000	130	3600
Carbon Tetrachloride	38	Not Detected	240	Not Detected
2,2,4-Trimethylpentane	38	2900	180	14000
Benzene	38	610	120	1900
1,2-Dichloroethane	38	Not Detected	150	Not Detected
Heptane	38	950	160	3900
Trichloroethene	38	Not Detected	200	Not Detected
1,2-Dichloropropane	38	Not Detected	180	Not Detected
1,4-Dioxane	150	Not Detected	550	Not Detected
Bromodichloromethane	38	Not Detected	260	Not Detected
cis-1,3-Dichloropropene	38	Not Detected	170	Not Detected
4-Methyl-2-pentanone	38	Not Detected	160	Not Detected
Toluene	38	220	140	840
trans-1,3-Dichloropropene	38	Not Detected	170	Not Detected
1,1,2-Trichloroethane	38	Not Detected	210	Not Detected
Tetrachloroethene	38	Not Detected	260	Not Detected
2-Hexanone	150	Not Detected	620	Not Detected

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Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14060428**	**Date of Collection:**	**5/17/12 9:21:00 AM**
Dil. Factor:	**7.64**	**Date of Analysis:**	**6/4/12 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	38	Not Detected	320	Not Detected
1,2-Dibromoethane (EDB)	38	Not Detected	290	Not Detected
Chlorobenzene	38	Not Detected	180	Not Detected
Ethyl Benzene	38	40	160	170
m,p-Xylene	38	72	160	310
o-Xylene	38	12 J	160	52 J
Styrene	38	Not Detected	160	Not Detected
Bromoform	38	Not Detected	390	Not Detected
Cumene	38	Not Detected	190	Not Detected
1,1,2,2-Tetrachloroethane	38	Not Detected	260	Not Detected
Propylbenzene	38	Not Detected	190	Not Detected
4-Ethyltoluene	38	Not Detected	190	Not Detected
1,3,5-Trimethylbenzene	38	Not Detected	190	Not Detected
1,2,4-Trimethylbenzene	38	Not Detected	190	Not Detected
1,3-Dichlorobenzene	38	Not Detected	230	Not Detected
1,4-Dichlorobenzene	38	Not Detected	230	Not Detected
alpha-Chlorotoluene	38	Not Detected	200	Not Detected
1,2-Dichlorobenzene	38	Not Detected	230	Not Detected
1,2,4-Trichlorobenzene	150	Not Detected	1100	Not Detected
Hexachlorobutadiene	150	Not Detected	1600	Not Detected
Butane	150	21000	360	50000
Isopentane	150	25000	450	74000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank
Lab ID#: 1206038A-02A
EPA METHOD TO-15 GC/MS

File Name:	14060406a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/12 08:34 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	6.2 J	38	12 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: I206038A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14060406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 08:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	5.5 J	150	40 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: CCV
Lab ID#: 1206038A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14060402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 06:45 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	103
Chloromethane	114
Vinyl Chloride	113
1,3-Butadiene	116
Bromomethane	95
Chloroethane	104
Freon 11	111
Ethanol	118
Freon 113	101
1,1-Dichloroethene	109
Acetone	100
2-Propanol	108
Carbon Disulfide	103
3-Chloropropene	96
Methylene Chloride	102
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	100
Hexane	98
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	103
Tetrahydrofuran	110
Chloroform	105
1,1,1-Trichloroethane	104
Cyclohexane	99
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	102
Benzene	105
1,2-Dichloroethane	111
Heptane	101
Trichloroethene	104
1,2-Dichloropropane	105
1,4-Dioxane	101
Bromodichloromethane	114
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	105
Toluene	105
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	107
Tetrachloroethene	104
2-Hexanone	101

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Client Sample ID: CCV
Lab ID#: 1206038A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14060402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 06:45 AM**	

Compound	%Recovery
Dibromochloromethane	118
1,2-Dibromoethane (EDB)	106
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	103
Styrene	111
Bromoform	126
Cumene	109
1,1,2,2-Tetrachloroethane	117
Propylbenzene	115
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	125
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	117
Butane	111
Isopentane	130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS
Lab ID#: 1206038A-04A
EPA METHOD TO-15 GC/MS

File Name:	14060403	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/12 07:12 AM	

Compound	%Recovery
Freon 12	103
Freon 114	102
Chloromethane	111
Vinyl Chloride	110
1,3-Butadiene	114
Bromomethane	95
Chloroethane	100
Freon 11	109
Ethanol	109
Freon 113	99
1,1-Dichloroethene	112
Acetone	99
2-Propanol	106
Carbon Disulfide	122
3-Chloropropene	106
Methylene Chloride	98
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	109
Hexane	95
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	100
Tetrahydrofuran	102
Chloroform	104
1,1,1-Trichloroethane	101
Cyclohexane	98
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	97
Benzene	103
1,2-Dichloroethane	108
Heptane	99
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	97
Bromodichloromethane	112
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	98
Toluene	102
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	105
Tetrachloroethene	101
2-Hexanone	99

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Client Sample ID: LCS

Lab ID#: 1206038A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14060403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 07:12 AM**	

Compound	%Recovery
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	105
Chlorobenzene	103
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	103
Styrene	108
Bromoform	120
Cumene	108
1,1,2,2-Tetrachloroethane	118
Propylbenzene	113
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	117
Butane	104
Isopentane	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD
Lab ID#: 1206038A-04AA
EPA METHOD TO-15 GC/MS

File Name:	14060404	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	6/4/12 07:31 AM

Compound	%Recovery
Freon 12	105
Freon 114	103
Chloromethane	114
Vinyl Chloride	110
1,3-Butadiene	115
Bromomethane	95
Chloroethane	99
Freon 11	110
Ethanol	106
Freon 113	104
1,1-Dichloroethene	112
Acetone	100
2-Propanol	105
Carbon Disulfide	123
3-Chloropropene	105
Methylene Chloride	100
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	110
Hexane	97
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	102
Tetrahydrofuran	104
Chloroform	105
1,1,1-Trichloroethane	102
Cyclohexane	99
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	99
Benzene	104
1,2-Dichloroethane	107
Heptane	99
Trichloroethene	106
1,2-Dichloropropane	104
1,4-Dioxane	98
Bromodichloromethane	111
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	100
Toluene	103
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	106
Tetrachloroethene	102
2-Hexanone	100

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Client Sample ID: LCSD
Lab ID#: 1206038A-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14060404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 07:31 AM**	

Compound	%Recovery
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	106
Chlorobenzene	103
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	104
Styrene	110
Bromoform	120
Cumene	109
1,1,2,2-Tetrachloroethane	117
Propylbenzene	116
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	121
Butane	106
Isopentane	116

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD/CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Moosheglan PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE 1-Jun-12

PAGE 1 of 1

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS (Street and City): 900 SOUTH CENTRAL AVE -- ROXANA, IL

STATE:

GLOBAL ID NO.:

ATTENTION: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST. LOUIS, MO 63110

FOR DELIVERABLE TO (Name, Company, Street, City): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

EMAIL:

CONSULTANT PROJECT NAME: Roxana SVE O&M

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (PRINT): S Wipfler M Gurden

TELEPHONE: 314-429-0100

FAX: 314-429-0462

E-MAIL TO CONTACT: dave.pullmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)

☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg	Sample PID (ppm)
DA	EXH-SVE-05172012	5/17/12	921	92	-30	-9			X	X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: Signature	Received by: (Signature) FEDEX	Date 6/1/12	Time 1600
Relinquished by: Signature	Received by: (Signature)	Date 6.2.12	Time 0855
Relinquished by: Signature	Received by: (Signature)	Date	Time

Custody Seal Intact?
Y N None Temp NA

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6/17/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1206038B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1206038B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	06/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	06/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-05172012	Modified ASTM D-1945	9.0 "Hg	5 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: _____ DATE: 06/17/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Ageney: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxies Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1206038B

One 1 Liter Summa Canister sample was received on June 02, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	19
Nitrogen	0.19	80
Methane	0.00019	0.059
Carbon Dioxide	0.019	0.90
Isobutane	0.0019	0.00025 J
Butane	0.0019	0.0020
Isopentane	0.0019	0.0024
Pentane	0.0019	0.00079 J
C6+	0.019	0.0046 J

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Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060528**	**Date of Collection:**	**5/17/12 9:21:00 AM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**6/5/12 07:42 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	19
Nitrogen	0.19	80
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.059
Carbon Dioxide	0.019	0.90
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	0.00025 J
Butane	0.0019	0.0020
Neopentane	0.0019	Not Detected
Isopentane	0.0019	0.0024
Pentane	0.0019	0.00079 J
C6+	0.019	0.0046 J
Hydrogen	0.019	Not Detected
BTU	1.9	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 1.0

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1206038B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060506a	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/5/12 09:08 AM	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.014 J
Nitrogen	0.10	0.071 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	0.000053 J

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1206038B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060505ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/5/12 08:46 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1206038B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/5/12 07:49 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	97
Carbon Dioxide	100
Ethane	99
Ethene	96
Acetylene	97
Propane	101
Isobutane	102
Butane	100
Neopentane	100
Isopentane	99
Pentane	99
C6+	97

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1206038B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060529**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/5/12 08:04 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	95
Methane	97
Carbon Dioxide	100
Ethane	99
Ethene	96
Acetylene	98
Propane	101
Isobutane	102
Butane	100
Neopentane	100
Isopentane	99
Pentane	99
C6+	97

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1206038B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060530b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/5/12 08:26 PM	

Compound	%Recovery
Hydrogen	102

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1206038B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060531b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/5/12 08:55 PM**	

Compound	%Recovery
Hydrogen	104

Container Type: NA - Not Applicable

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☒ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO #	INCIDENT # (ENV SERVICES) 9 7 2 1 6 6 4 0 SAP # 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE 1-Jun-12

PAGE 1 of 1

SAMPLING COMPANY URS CORPORATION	LOG CODE	SITE ADDRESS, Street and City 900 SOUTH CENTRAL AVE -- ROXANA	State IL
ADDRESS 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, City, Location) Elizabeth Kunkel, URS, St. Louis	PHONE NO 314-743-4179
LABORATORY ADDRESS Air Toxics, LTD 180 Blue Ravine Road Suite B, Folsom, CA 95630-4719		SAMPLER NAME(S) PRINT S. Wipfler, M. Curtis	
TELEPHONE 314-429-0100	FAX 314-429-0462	PO TO THIS EMAIL ADDRESS dave.palmer@urs.com	

E-MAIL		CONSULTANT PROJECT NAME	
		Roxana SVE O&M	

TURNAROUND TIME (CALENDAR DAYS)

☒ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☒ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☒ LEVEL 4 ☐ OTHER (SPECIFY)

☒ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☒ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (SH)-TPHg	Sample PID (ppm)
[illegible]	EXH-SVE-05172012	5/17/12	921	92	-30	-9			X	X	X	

Turn Around Time:
☒ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature) FEDEX	Date 6/1/12	Time 1600
Relinquished by (Signature)	Received by (Signature)	Date 6.2.12	Time 0855
Relinquished by (Signature)	Received by (Signature)	Date	Time

Custody Seal Intact?
Y N None Temp NA

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6/17/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1206038C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/2/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1206038C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	06/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	06/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-05172012	Modified TO-3	9.0 "Hg	5 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 06/17/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act.
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1206038C

One 1 Liter Summa Canister sample was received on June 02, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample EXH-SVE-05172012 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.38	1.6	190	780

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Air Toxics

Client Sample ID: EXH-SVE-05172012

Lab ID#: 1206038C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d060409	Date of Collection:	5/17/12 9:21:00 AM
Dil. Factor:	15.3	Date of Analysis:	6/4/12 02:05 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.38	1.6	190	780

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	112	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1206038C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d060403a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 08:24 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.015 J	0.061 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	86	75-150

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Client Sample ID: LCS

Lab ID#: 1206038C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d060402	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/4/12 07:38 AM	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	85	75-150

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Client Sample ID: LCSD

Lab ID#: 1206038C-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d060410**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/4/12 04:57 PM**	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ JOBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO # SITE ADDRESS, Street and City: 900 SOUTH CENTRAL AVE -- ROXANA State: IL	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE 1-Jun-12 PAGE 1 of 1
SAMPLING COMPANY: URS CORPORATION ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300 ST LOUIS, MO 63110 SHIPPING ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TELEPHONE: 314-429-0100 FAX: 314-429-0462		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis PHONE NO: 314-743-4178 E-MAIL: CONSULTANT PROJECT MANAGER: Roxana SVE O&M SAMPLER NAME(S) (PRINT): S Wisher M Currier	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
1	EXH-SVE-05172012	5/17/12	921	92	-30	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: Signature	Received by: Signature FEDEX	Date 6/1/12	Time 1600
Relinquished by: Signature	Received by: Signature	Date 6.2.12	Time 0855
Relinquished by: Signature	Received by: Signature	Date	Time

Custody Seal Intact?
Y N None Temp NA

SVE System O&M 2012 Data Review

Laboratory SDG: 1206509A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 9/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-06212012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-06212012 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 LCS/LCSD recoveries for ethanol were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No problems were indicated on the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1206509A-02A	TO-15	Freon 12	0.11 ppbv / 0.56 µg/m^3
1206509A-02A	TO-15	Carbon disulfide	0.64 ppbv / 2.0 µg/m^3
1206509A-02A	TO-15	cis-1,2-Dichloroethene	0.26 ppbv / 1.0 µg/m^3
1206509A-02A	TO-15	Chloroform	0.13 ppbv / 0.63 µg/m^3
1206509A-02A	TO-15	1,1,1-Trichloroethane	0.11 ppbv / 0.59 µg/m^3
1206509A-02A	TO-15	Benzene	0.13 ppbv / 0.41 µg/m^3
1206509A-02A	TO-15	1,2-Dichloroethane	0.19 ppbv / 0.79 µg/m^3
1206509A-02A	TO-15	Trichloroethene	0.24 ppbv / 1.3 µg/m^3
1206509A-02A	TO-15	1,2-Dichloropropane	0.12 ppbv / 0.57 µg/m^3
1206509A-02A	TO-15	Bromodichloromethane	0.13 ppbv / 0.89 µg/m^3
1206509A-02A	TO-15	cis-1,3-Dichloropropene	0.14 ppbv / 0.65 µg/m^3
1206509A-02A	TO-15	trans-1,3-Dichloropropene	0.20 ppbv / 0.89 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1206509A-02A	TO-15	1,2-Dibromoethane (EDB)	0.18 ppbv / 1.4 µg/m^3
1206509A-02A	TO-15	Chlorobenzene	0.16 ppbv / 0.76 µg/m^3
1206509A-02A	TO-15	m,p-Xylene	0.12 ppbv / 0.50 µg/m^3
1206509A-02A	TO-15	Styrene	0.12 ppbv / 0.50 µg/m^3
1206509A-02A	TO-15	Cumene	0.085 ppbv / 0.42 µg/m^3
1206509A-02A	TO-15	1,1,2,2-Tetrachloroethane	0.13 ppbv / 0.89 µg/m^3
1206509A-02A	TO-15	Propylbenzene	0.14 ppbv / 0.68 µg/m^3
1206509A-02A	TO-15	4-Ethyltoluene	0.12 ppbv / 0.60 µg/m^3
1206509A-02A	TO-15	1,3,5-Trimethylbenzene	0.18 ppbv / 0.91 µg/m^3
1206509A-02A	TO-15	1,2,4-Trimethylbenzene	0.21 ppbv / 1.0 µg/m^3
1206509A-02A	TO-15	1,3-Dichlorobenzene	0.34 ppbv / 2.0 µg/m^3
1206509A-02A	TO-15	1,4-Dichlorobenzene	0.37 ppbv / 2.2 µg/m^3
1206509A-02A	TO-15	alpha-Chlorotoluene	0.22 ppbv / 1.1 µg/m^3
1206509A-02A	TO-15	1,2-Dichlorobenzene	0.34 ppbv / 2.0 µg/m^3
1206509A-02A	TO-15	1,2,4-Trichlorobenzene	1.2 ppbv / 8.8 µg/m^3
1206509A-02A	TO-15	Hexachlorobutadiene	0.57 ppbv / 6.0 µg/m^3
1206509B-02A	ASTM D-1945	Oxygen	0.022 %
1206509B-02A	ASTM D-1945	Nitrogen	0.056 %
1206509C-02A	TO-3	TPH (C2-C10)	0.016 ppmv / 0.065 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification was necessary.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1206509A-04A/AA	TO-15	Ethanol	**62/63**	2	70-130/25

Analytical data that required qualification based on LCS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
EXH-SVE-06212012	TO-15	Ethanol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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7/7/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.000018
Workorder #: 1206509A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/25/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
9/27/2012

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WORK ORDER #: 1206509A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.000018 Roxana SVE O&M
DATE RECEIVED:	06/25/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/07/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-06212012	Modified TO-15	9.6 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Rogers DATE: 07/07/12

Technical Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1206509A

One 1 Liter Summa Canister sample was received on June 25, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-06212012 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1200	380 J	2900	900 J
2-Propanol	490	100 J	1200	260 J
Carbon Disulfide	490	240 J	1500	760 J
Methylene Chloride	1200	98 J	4300	340 J
Hexane	120	4100	430	14000
Cyclohexane	120	910	420	3100
2,2,4-Trimethylpentane	120	2800	570	13000
Benzene	120	470	390	1500
Heptane	120	980	500	4000
Toluene	120	240	460	920
Ethyl Benzene	120	62 J	530	270 J
m,p-Xylene	120	110 J	530	470 J
Styrene	120	29 J	520	120 J
Butane	490	19000	1200	45000
Isopentane	490	22000	1400	65000

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Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062824**	**Date of Collection: 6/21/12 8:53:00 AM**	
Dil. Factor:	**246**	**Date of Analysis: 6/28/12 09:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	610	Not Detected
Freon 114	120	Not Detected	860	Not Detected
Chloromethane	1200	Not Detected	2500	Not Detected
Vinyl Chloride	120	Not Detected	310	Not Detected
1,3-Butadiene	120	Not Detected	270	Not Detected
Bromomethane	1200	Not Detected	4800	Not Detected
Chloroethane	490	Not Detected	1300	Not Detected
Freon 11	120	Not Detected	690	Not Detected
Ethanol	490	Not Detected UJ	930	Not Detected UJ
Freon 113	120	Not Detected	940	Not Detected
1,1-Dichloroethene	120	Not Detected	490	Not Detected
Acetone	1200	380 J	2900	900 J
2-Propanol	490	100 J	1200	260 J
Carbon Disulfide	490	240 J	1500	760 J
3-Chloropropene	490	Not Detected	1500	Not Detected
Methylene Chloride	1200	98 J	4300	340 J
Methyl tert-butyl ether	120	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	490	Not Detected
Hexane	120	4100	430	14000
1,1-Dichloroethane	120	Not Detected	500	Not Detected
2-Butanone (Methyl Ethyl Ketone)	490	Not Detected	1400	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	490	Not Detected
Tetrahydrofuran	120	Not Detected	360	Not Detected
Chloroform	120	Not Detected	600	Not Detected
1,1,1-Trichloroethane	120	Not Detected	670	Not Detected
Cyclohexane	120	910	420	3100
Carbon Tetrachloride	120	Not Detected	770	Not Detected
2,2,4-Trimethylpentane	120	2800	570	13000
Benzene	120	470	390	1500
1,2-Dichloroethane	120	Not Detected	500	Not Detected
Heptane	120	980	500	4000
Trichloroethene	120	Not Detected	660	Not Detected
1,2-Dichloropropane	120	Not Detected	570	Not Detected
1,4-Dioxane	490	Not Detected	1800	Not Detected
Bromodichloromethane	120	Not Detected	820	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	560	Not Detected
4-Methyl-2-pentanone	120	Not Detected	500	Not Detected
Toluene	120	240	460	920
trans-1,3-Dichloropropene	120	Not Detected	560	Not Detected
1,1,2-Trichloroethane	120	Not Detected	670	Not Detected
Tetrachloroethene	120	Not Detected	830	Not Detected
2-Hexanone	490	Not Detected	2000	Not Detected

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Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062824**	**Date of Collection: 6/21/12 8:53:00 AM**	
Dil. Factor:	**246**	**Date of Analysis: 6/28/12 09:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	940	Not Detected
Chlorobenzene	120	Not Detected	570	Not Detected
Ethyl Benzene	120	62 J	530	270 J
m,p-Xylene	120	110 J	530	470 J
o-Xylene	120	Not Detected	530	Not Detected
Styrene	120	29 J	520	120 J
Bromoform	120	Not Detected	1300	Not Detected
Cumene	120	Not Detected	600	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	840	Not Detected
Propylbenzene	120	Not Detected	600	Not Detected
4-Ethyltoluene	120	Not Detected	600	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	600	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	600	Not Detected
1,3-Dichlorobenzene	120	Not Detected	740	Not Detected
1,4-Dichlorobenzene	120	Not Detected	740	Not Detected
alpha-Chlorotoluene	120	Not Detected	640	Not Detected
1,2-Dichlorobenzene	120	Not Detected	740	Not Detected
1,2,4-Trichlorobenzene	490	Not Detected	3600	Not Detected
Hexachlorobutadiene	490	Not Detected	5200	Not Detected
Butane	490	19000	1200	45000
Isopentane	490	22000	1400	65000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1206509A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p062806a	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	6/28/12 11:36 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	0.11 J	2.5	0.56 J
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.64 J	6.2	2.0 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	0.26 J	2.0	1.0 J
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	0.13 J	2.4	0.63 J
1,1,1-Trichloroethane	0.50	0.11 J	2.7	0.59 J
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	0.13 J	1.6	0.41 J
1,2-Dichloroethane	0.50	0.19 J	2.0	0.79 J
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	0.24 J	2.7	1.3 J
1,2-Dichloropropane	0.50	0.12 J	2.3	0.57 J
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	0.13 J	3.4	0.89 J
cis-1,3-Dichloropropene	0.50	0.14 J	2.3	0.65 J
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.20 J	2.3	0.89 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1206509A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 11:36 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.18 J	3.8	1.4 J
Chlorobenzene	0.50	0.16 J	2.3	0.76 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.12 J	2.2	0.50 J
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	0.12 J	2.1	0.50 J
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.085 J	2.4	0.42 J
1,1,2,2-Tetrachloroethane	0.50	0.13 J	3.4	0.89 J
Propylbenzene	0.50	0.14 J	2.4	0.68 J
4-Ethyltoluene	0.50	0.12 J	2.4	0.60 J
1,3,5-Trimethylbenzene	0.50	0.18 J	2.4	0.91 J
1,2,4-Trimethylbenzene	0.50	0.21 J	2.4	1.0 J
1,3-Dichlorobenzene	0.50	0.34 J	3.0	2.0 J
1,4-Dichlorobenzene	0.50	0.37 J	3.0	2.2 J
alpha-Chlorotoluene	0.50	0.22 J	2.6	1.1 J
1,2-Dichlorobenzene	0.50	0.34 J	3.0	2.0 J
1,2,4-Trichlorobenzene	2.0	1.2 J	15	8.8 J
Hexachlorobutadiene	2.0	0.57 J	21	6.0 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 1206509A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062802a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 09:43 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	93
Chloromethane	70
Vinyl Chloride	92
1,3-Butadiene	94
Bromomethane	96
Chloroethane	93
Freon 11	88
Ethanol	105
Freon 113	93
1,1-Dichloroethene	97
Acetone	90
2-Propanol	97
Carbon Disulfide	95
3-Chloropropene	95
Methylene Chloride	92
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	100
Hexane	102
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	93
Tetrahydrofuran	98
Chloroform	89
1,1,1-Trichloroethane	87
Cyclohexane	105
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	104
Benzene	92
1,2-Dichloroethane	85
Heptane	103
Trichloroethene	87
1,2-Dichloropropane	91
1,4-Dioxane	99
Bromodichloromethane	88
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	99
Toluene	97
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	95
Tetrachloroethene	92
2-Hexanone	103

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Client Sample ID: CCV

Lab ID#: 1206509A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062802a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 09:43 AM**	

Compound	%Recovery
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	94
Chlorobenzene	93
Ethyl Benzene	98
m,p-Xylene	104
o-Xylene	103
Styrene	98
Bromoform	91
Cumene	103
1,1,2,2-Tetrachloroethane	88
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	94
Butane	86
Isopentane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS
Lab ID#: 1206509A-04A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062803a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 10:20 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	95
Chloromethane	84
Vinyl Chloride	99
1,3-Butadiene	99
Bromomethane	104
Chloroethane	100
Freon 11	88
Ethanol	62 Q
Freon 113	96
1,1-Dichloroethene	109
Acetone	95
2-Propanol	98
Carbon Disulfide	118
3-Chloropropene	114
Methylene Chloride	93
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	116
Hexane	106
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	96
Tetrahydrofuran	97
Chloroform	92
1,1,1-Trichloroethane	89
Cyclohexane	109
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	102
Benzene	96
1,2-Dichloroethane	87
Heptane	108
Trichloroethene	93
1,2-Dichloropropane	95
1,4-Dioxane	96
Bromodichloromethane	91
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	99
Toluene	97
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	99
Tetrachloroethene	96
2-Hexanone	104

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Client Sample ID: LCS

Lab ID#: 1206509A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062803a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 10:20 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	99
Chlorobenzene	99
Ethyl Benzene	102
m,p-Xylene	106
o-Xylene	108
Styrene	107
Bromoform	96
Cumene	108
1,1,2,2-Tetrachloroethane	93
Propylbenzene	102
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	89
Butane	93
Isopentane	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD
Lab ID#: 1206509A-04AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062804a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 10:39 AM**	

Compound	%Recovery
Freon 12	87
Freon 114	91
Chloromethane	82
Vinyl Chloride	98
1,3-Butadiene	98
Bromomethane	103
Chloroethane	100
Freon 11	84
Ethanol	63 Q
Freon 113	95
1,1-Dichloroethene	106
Acetone	95
2-Propanol	96
Carbon Disulfide	118
3-Chloropropene	114
Methylene Chloride	91
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	114
Hexane	104
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	98
Tetrahydrofuran	98
Chloroform	91
1,1,1-Trichloroethane	88
Cyclohexane	110
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	108
Benzene	94
1,2-Dichloroethane	79
Heptane	103
Trichloroethene	86
1,2-Dichloropropane	91
1,4-Dioxane	95
Bromodichloromethane	84
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	99
Toluene	93
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	97
Tetrachloroethene	95
2-Hexanone	102

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Client Sample ID: LCSD
Lab ID#: 1206509A-04AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p062804a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/28/12 10:39 AM**	

Compound	%Recovery
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	96
Chlorobenzene	97
Ethyl Benzene	101
m,p-Xylene	105
o-Xylene	106
Styrene	105
Bromoform	90
Cumene	105
1,1,2,2-Tetrachloroethane	91
Propylbenzene	100
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	87
Butane	92
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	98	70-130

1206509

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 6 1

DATE: 22-Jun-12

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110

REP. DELIVERABLE TO (Name, Company, Shell Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: elizabeth_kunkel@urscorp.com

CONSULTANT PROJECT NAME: Roxana SVE O&M

SECONDARY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (Print): D. Wipfler, M. Currier

TELEPHONE: 314-429-0100

FAX: 314-429-0462

DE To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-06212012	6/21/12	853	1752	-29	-10			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	6/22/12	1500
Relinquished by (Signature)	Received by (Signature) B. Shuttleworth 6/25/12 0930	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2006 Revision

Custody Seal Intact?
Y N None Temp N/A

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7/9/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.000018
Workorder #: 1206509B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/25/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1206509B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.000018 Roxana SVE O&M
DATE RECEIVED:	06/25/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/09/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-06212012	Modified ASTM D-1945	9.6 "Hg	5 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 07/09/12

Technical Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1206509B

One 1 Liter Summa Canister sample was received on June 25, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Methane	0.00020	0.057
Carbon Dioxide	0.020	0.85
Ethene	0.0020	0.00010 J
Isobutane	0.0020	0.00024 J
Butane	0.0020	0.0019 J
Isopentane	0.0020	0.0022
Pentane	0.0020	0.00073 J
C6+	0.020	0.0044 J

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Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9062713**	**Date of Collection:**	**6/21/12 8:53:00 AM**
Dil. Factor:	**1.97**	**Date of Analysis:**	**6/27/12 02:26 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	20
Nitrogen	0.20	79
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	0.057
Carbon Dioxide	0.020	0.85
Ethane	0.0020	Not Detected
Ethene	0.0020	0.00010 J
Acetylene	0.0020	Not Detected
Propane	0.0020	Not Detected
Isobutane	0.0020	0.00024 J
Butane	0.0020	0.0019 J
Neopentane	0.0020	Not Detected
Isopentane	0.0020	0.0022
Pentane	0.0020	0.00073 J
C6+	0.020	0.0044 J
Hydrogen	0.020	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.97

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1206509B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9062709a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 12:05 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.022 J
Nitrogen	0.10	0.056 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1206509B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9062704b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/27/12 09:42 AM	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1206509B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9062702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 08:48 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	100
Ethane	99
Ethene	96
Acetylene	98
Propane	101
Isobutane	102
Butane	100
Neopentane	101
Isopentane	99
Pentane	99
C6+	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1206509B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9062726**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 09:21 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	99
Ethane	99
Ethene	96
Acetylene	98
Propane	101
Isobutane	102
Butane	100
Neopentane	101
Isopentane	99
Pentane	99
C6+	98

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1206509B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9062727b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/27/12 09:48 PM	

Compound	%Recovery
Hydrogen	101

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1206509B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9062728b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 10:12 PM**	

Compound	%Recovery
Hydrogen	101

Container Type: NA - Not Applicable

1206509

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 22-Jun-12
PAGE: 1 of 1
PO #
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
ECP DELIVERABLE TO (PRINT, Company, Street, City): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Oil To Contact E-MAIL: dave.palmer@urs.com
SAMPLER NAME(S) (Print): B. Wipfler, M. Currier

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-06212012	6/21/12	853	1732	-29	-10			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

6/22/12

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	6/22/12	1500
Relinquished by (Signature)	Received by (Signature) B Shuttleworth 6/25/12 0930	Date	Time
Relinquished by (Signature)	Received by (Signature) Fedex	Date	Time

05/2006 Revision

Custody Seal Intact?
Y N None Temp N/A

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7/9/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.000018
Workorder #: 1206509C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 6/25/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1206509C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.000018 Roxana SVE O&M
DATE RECEIVED:	06/25/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/09/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-06212012	Modified TO-3	9.6 "Hg	5 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Rogers DATE: 07/09/12

Technical Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Aeereditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results eontained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1206509C

One 1 Liter Summa Canister sample was received on June 25, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-06212012

Lab ID#: 1206509C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.49	2.0	180	740

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Client Sample ID: EXII-SVE-06212012

Lab ID#: 1206509C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d062708**	**Date of Collection: 6/21/12 8:53:00 AM**	
Dil. Factor:	**19.7**	**Date of Analysis: 6/27/12 03:22 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.49	2.0	180	740

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1206509C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d062704a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 11:28 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.016 J	0.065 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-150

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Client Sample ID: LCS

Lab ID#: 1206509C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d062702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 09:15 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	89

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	88	75-150

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Client Sample ID: LCSD

Lab ID#: 1206509C-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d062709**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/27/12 04:10 PM**	

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-150

1206509

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana SVE O&M Project # 21562735.00018 Lab Vendor #	Please Check Appropriate Box: ☑ BVL SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CV ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO #:	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CLICK IF NO INCIDENT # APPLIES DATE: 22-Jun-12 SAP #: 3 4 0 0 6 1 PAGE: 1 of 1
SAMPLING COMPANY: URS CORPORATION LOG CODE:		SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA State: IL GLOBAL ID NO.	
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110 LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis PHONE NO.: 314-743-4179 E-MAIL: elizabeth.kunkel@urs.com CONSULTANT PROJECT NAME#: Roxana SVE O&M	
TELEPHONE: 314-429-0100 FAX: 314-429-0462 EX To Contact E-MAIL: steve.palmer@urs.com		SAMPLER NAME(S) (PRINT): S. Wipfler, M. Currier	

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-06212012	6/21/12	853	1732	-29	-10			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 6/22/12	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) B Shuttleworth 6/25/12 0930	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

Custody Seal Intact?
Y N None Temp N/A

SVE System O&M 2012 Data Review

Laboratory SDG: 1209216A,B,C

Data Reviewer: Elizabeth Kunkel

Peer Reviewer: Steve Gragert

Date Reviewed: 10/1/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-08312012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-08312012 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 LCS/LCSD recoveries for ethanol were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No problems were indicated on the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1209216A-02A	TO-15	Bromomethane	0.30 ppbv / 1.2 µg/m^3
1209216A-02A	TO-15	Carbon disulfide	0.40 ppbv / 1.3 µg/m^3
1209216A-02A	TO-15	1,2,4-Trichlorobenzene	0.30 ppbv / 2.2 µg/m^3
1209216B-02A	ASTM D-1945	Oxygen	0.013 %
1209216B-02A	ASTM D-1945	Nitrogen	0.039 %
1209216C-02A	TO-3	TPH (C2-C10)	0.011 ppmv / 0.046 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification was necessary.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1206509A-04A/AA	TO-15	Ethanol	**52/54**	4	70-130/25

Analytical data that required qualification based on LCS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
EXH-SVE-08312012	TO-15	Ethanol	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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9/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1209216A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 9/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner
Project Manager

Reviewed
on
10/1/2012

eurofins | Air Toxics

WORK ORDER #: 1209216A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	09/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	09/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-08312012	Modified TO-15	10.0 "Hg	15 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 09/26/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1209216A

One 1 Liter Summa Canister sample was received on September 13, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-08312012 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	250	94 J	470	180 J
Acetone	630	1800	1500	4400
2-Propanol	250	72 J	620	180 J
Carbon Disulfide	250	330	780	1000
Methylene Chloride	630	67 J	2200	230 J
Hexane	63	4000	220	14000
2-Butanone (Methyl Ethyl Ketone)	250	73 J	740	210 J
Cyclohexane	63	880	220	3000
2,2,4-Trimethylpentane	63	2800	290	13000
Benzene	63	540	200	1700
Heptane	63	820	260	3400
Toluene	63	710	240	2700
Ethyl Benzene	63	97	270	420
m,p-Xylene	63	170	270	730
o-Xylene	63	45 J	270	200 J
Styrene	63	22 J	270	94 J
Propylbenzene	63	9.4 J	310	46 J
4-Ethyltoluene	63	18 J	310	87 J
Butane	250	14000	600	32000
Isopentane	250	19000	740	56000

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Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091413**	**Date of Collection:**	**8/31/12 9:25:00 AM**
Dil. Factor:	**126**	**Date of Analysis:**	**9/14/12 04:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	63	Not Detected	310	Not Detected
Freon 114	63	Not Detected	440	Not Detected
Chloromethane	630	Not Detected	1300	Not Detected
Vinyl Chloride	63	Not Detected	160	Not Detected
1,3-Butadiene	63	Not Detected	140	Not Detected
Bromomethane	630	Not Detected	2400	Not Detected
Chloroethane	250	Not Detected	660	Not Detected
Freon 11	63	Not Detected	350	Not Detected
Ethanol	250	94 J	470	180 J
Freon 113	63	Not Detected	480	Not Detected
1,1-Dichloroethene	63	Not Detected	250	Not Detected
Acetone	630	1800	1500	4400
2-Propanol	250	72 J	620	180 J
Carbon Disulfide	250	330	780	1000
3-Chloropropene	250	Not Detected	790	Not Detected
Methylene Chloride	630	67 J	2200	230 J
Methyl tert-butyl ether	63	Not Detected	230	Not Detected
trans-1,2-Dichloroethene	63	Not Detected	250	Not Detected
Hexane	63	4000	220	14000
1,1-Dichloroethane	63	Not Detected	260	Not Detected
2-Butanone (Methyl Ethyl Ketone)	250	73 J	740	210 J
cis-1,2-Dichloroethene	63	Not Detected	250	Not Detected
Tetrahydrofuran	63	Not Detected	180	Not Detected
Chloroform	63	Not Detected	310	Not Detected
1,1,1-Trichloroethane	63	Not Detected	340	Not Detected
Cyclohexane	63	880	220	3000
Carbon Tetrachloride	63	Not Detected	400	Not Detected
2,2,4-Trimethylpentane	63	2800	290	13000
Benzene	63	540	200	1700
1,2-Dichloroethane	63	Not Detected	250	Not Detected
Heptane	63	820	260	3400
Trichloroethene	63	Not Detected	340	Not Detected
1,2-Dichloropropane	63	Not Detected	290	Not Detected
1,4-Dioxane	250	Not Detected	910	Not Detected
Bromodichloromethane	63	Not Detected	420	Not Detected
cis-1,3-Dichloropropene	63	Not Detected	280	Not Detected
4-Methyl-2-pentanone	63	Not Detected	260	Not Detected
Toluene	63	710	240	2700
trans-1,3-Dichloropropene	63	Not Detected	280	Not Detected
1,1,2-Trichloroethane	63	Not Detected	340	Not Detected
Tetrachloroethene	63	Not Detected	430	Not Detected
2-Hexanone	250	Not Detected	1000	Not Detected

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Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091413**	**Date of Collection:**	**8/31/12 9:25:00 AM**
Dil. Factor:	**126**	**Date of Analysis:**	**9/14/12 04:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	63	Not Detected	540	Not Detected
1,2-Dibromoethane (EDB)	63	Not Detected	480	Not Detected
Chlorobenzene	63	Not Detected	290	Not Detected
Ethyl Benzene	63	97	270	420
m,p-Xylene	63	170	270	730
o-Xylene	63	45 J	270	200 J
Styrene	63	22 J	270	94 J
Bromoform	63	Not Detected	650	Not Detected
Cumene	63	Not Detected	310	Not Detected
1,1,2,2-Tetrachloroethane	63	Not Detected	430	Not Detected
Propylbenzene	63	9.4 J	310	46 J
4-Ethyltoluene	63	18 J	310	87 J
1,3,5-Trimethylbenzene	63	Not Detected	310	Not Detected
1,2,4-Trimethylbenzene	63	Not Detected	310	Not Detected
1,3-Dichlorobenzene	63	Not Detected	380	Not Detected
1,4-Dichlorobenzene	63	Not Detected	380	Not Detected
alpha-Chlorotoluene	63	Not Detected	330	Not Detected
1,2-Dichlorobenzene	63	Not Detected	380	Not Detected
1,2,4-Trichlorobenzene	250	Not Detected	1900	Not Detected
Hexachlorobutadiene	250	Not Detected	2700	Not Detected
Butane	250	14000	600	32000
Isopentane	250	19000	740	56000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1209216A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091407a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 11:50 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	0.30 J	19	1.2 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.40 J	6.2	1.3 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1209216A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091407a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 11:50 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.30 J	15	2.2 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: CCV

Lab ID#: 1209216A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 08:53 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	95
Chloromethane	97
Vinyl Chloride	94
1,3-Butadiene	91
Bromomethane	90
Chloroethane	94
Freon 11	107
Ethanol	88
Freon 113	98
1,1-Dichloroethene	92
Acetone	97
2-Propanol	90
Carbon Disulfide	90
3-Chloropropene	88
Methylene Chloride	101
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	93
Hexane	101
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	91
Tetrahydrofuran	101
Chloroform	101
1,1,1-Trichloroethane	100
Cyclohexane	101
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	105
Benzene	97
1,2-Dichloroethane	113
Heptane	118
Trichloroethene	89
1,2-Dichloropropane	96
1,4-Dioxane	101
Bromodichloromethane	105
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	103
Toluene	105
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	99
Tetrachloroethene	97
2-Hexanone	100

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Client Sample ID: CCV

Lab ID#: 1209216A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 08:53 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	108
m,p-Xylene	109
o-Xylene	111
Styrene	116
Bromoform	106
Cumene	117
1,1,2,2-Tetrachloroethane	98
Propylbenzene	109
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	102
Butane	93
Isopentane	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1209216A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:28 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	94
Chloromethane	97
Vinyl Chloride	94
1,3-Butadiene	88
Bromomethane	88
Chloroethane	89
Freon 11	102
Ethanol	52 Q
Freon 113	95
1,1-Dichloroethene	94
Acetone	92
2-Propanol	90
Carbon Disulfide	109
3-Chloropropene	103
Methylene Chloride	95
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	99
Hexane	98
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	83
Tetrahydrofuran	93
Chloroform	96
1,1,1-Trichloroethane	96
Cyclohexane	96
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	99
Benzene	92
1,2-Dichloroethane	103
Heptane	105
Trichloroethene	86
1,2-Dichloropropane	91
1,4-Dioxane	98
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	102
Toluene	96
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	95
Tetrachloroethene	92
2-Hexanone	101

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Client Sample ID: LCS

Lab ID#: 1209216A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:28 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	99
Chlorobenzene	97
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	108
Styrene	110
Bromoform	98
Cumene	113
1,1,2,2-Tetrachloroethane	96
Propylbenzene	107
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	105
Butane	86
Isopentane	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1209216A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 10:03 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	90
Chloromethane	93
Vinyl Chloride	93
1,3-Butadiene	88
Bromomethane	86
Chloroethane	89
Freon 11	100
Ethanol	54 Q
Freon 113	94
1,1-Dichloroethene	92
Acetone	91
2-Propanol	91
Carbon Disulfide	107
3-Chloropropene	107
Methylene Chloride	95
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	99
Hexane	98
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	83
Tetrahydrofuran	95
Chloroform	95
1,1,1-Trichloroethane	92
Cyclohexane	96
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	97
Benzene	90
1,2-Dichloroethane	99
Heptane	106
Trichloroethene	86
1,2-Dichloropropane	92
1,4-Dioxane	95
Bromodichloromethane	96
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	100
Toluene	96
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	94
Tetrachloroethene	90
2-Hexanone	101

Client Sample ID: LCSD

Lab ID#: 1209216A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 10:03 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	98
Chlorobenzene	96
Ethyl Benzene	103
m,p-Xylene	106
o-Xylene	107
Styrene	108
Bromoform	96
Cumene	112
1,1,2,2-Tetrachloroethane	94
Propylbenzene	105
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	103
Butane	89
Isopentane	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	103	70-130

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA S/B&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 12-Sep-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
REP FOR DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL:
CONSULTANT PROJECT NAME#: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) PRINT: S. Wipfler, M. Curtis
TELEPHONE: 314-429-0100
FAX: 314-429-0462
ES To Contact E-MAIL: cave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
DLR	EXH-SVE-08312012	8/31/12	925	1352	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

1209216

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FEDEX	9/12/12	1500
Relinquished by (Signature)	Received by (Signature)	9/13/12	1015
Relinquished by (Signature)	Received by (Signature)		

05/2/06 Revision

CUSTODY SEAL INTACT?
Y N NC N/A

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9/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1209216B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 9/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
10/1/2012

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WORK ORDER #: 1209216B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	09/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	09/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-08312012	Modified ASTM D-1945	10.0 "Hg	15 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/26/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD. SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1209216B

One 1 Liter Summa Canister sample was received on September 13, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	81
Methane	0.00030	0.035
Carbon Dioxide	0.030	0.94
Ethene	0.0030	0.000075 J
Isobutane	0.0030	0.00016 J
Butane	0.0030	0.0013 J
Isopentane	0.0030	0.0018 J
Pentane	0.0030	0.00065 J
C6+	0.030	0.0037 J

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Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091413**	**Date of Collection: 8/31/12 9:25:00 AM**	
Dil. Factor:	**3.03**	**Date of Analysis: 9/14/12 02:20 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.035
Carbon Dioxide	0.030	0.94
Ethane	0.0030	Not Detected
Ethene	0.0030	0.000075 J
Acetylene	0.0030	Not Detected
Propane	0.0030	Not Detected
Isobutane	0.0030	0.00016 J
Butane	0.0030	0.0013 J
Neopentane	0.0030	Not Detected
Isopentane	0.0030	0.0018 J
Pentane	0.0030	0.00065 J
C6+	0.030	0.0037 J
Hydrogen	0.030	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.68

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1209216B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 10:13 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.039 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1209216B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091404b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:39 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1209216B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 08:25 AM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	103
Ethane	99
Ethene	96
Acetylene	98
Propane	101
Isobutane	102
Butane	101
Neopentane	102
Isopentane	100
Pentane	101
C6+	102

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1209216B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091428**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 10:33 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	97
Methane	98
Carbon Dioxide	105
Ethane	100
Ethene	97
Acetylene	99
Propane	102
Isobutane	103
Butane	101
Neopentane	102
Isopentane	101
Pentane	101
C6+	102

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1209216B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091425b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:14 PM**	

Compound	%Recovery
Hydrogen	100

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1209216B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9091426b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:37 PM**	

Compound	%Recovery
Hydrogen	102

Container Type: NA - Not Applicable

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 12-Sep-12
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
LAB CONTACT E-MAIL: dave.palmer@urs.com
REPORT DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT MANAGER: Roxana SVE O&M
SAMPLER NAME(S) PRINT: S.Wiefler, M. Curtler

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15+ Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-083112012	8/31/12	925	1352	-29	-9			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

1209216

		Date	Time
Relinquished by (Signature)	Received by (Signature) FEDEX	9/12/12	1500
Relinquished by (Signature)	Received by (Signature)	9/13/12	1015
Relinquished by (Signature)	Received by (Signature)		

05/2/08 Revision

CUSTODY SEAL INTACT?
Y N NC N/A

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10/1/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1209216C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 9/13/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner
Project Manager

Reviewed
On
10/1/2012

eurofins | Air Toxics

WORK ORDER #: 1209216C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	09/13/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/01/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-08312012	Modified TO-3	10.0 "Hg	15 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: _____ DATE: 10/01/12

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1209216C

One 1 Liter Summa Canister sample was received on September 13, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.76	3.1	170	690

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Client Sample ID: EXH-SVE-08312012

Lab ID#: 1209216C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091406**	**Date of Collection:**	**8/31/12 9:25:00 AM**
Dil. Factor:	**30.3**	**Date of Analysis:**	**9/14/12 02:33 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.76	3.1	170	690

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1209216C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091404a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 12:05 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.011 J	0.046 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	82	75-150

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Client Sample ID: LCS

Lab ID#: 1209216C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091414**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/12 09:17 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	111

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	87	75-150

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12-Sep-12
PAGE 1 of 1
PO #:
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110
REPORT DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT MANAGER: Roxana SVE O&M
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) - Print: S. Wipfler, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT E-MAIL: cave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-08312012	8/31/12	925	1352	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

1209216

	Relinquished by (Signature)	Received by (Signature)	Date	Time
		FEDEX	9/12/12	1500
		ATL 9/13/12	9/13/12	1015

05/2/08 Revision

CUSTODY SEAL INTACT? Y N NC N/A

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210164A,B

Data Reviewer: Elizabeth Kunkel

Peer Reviewer: Steve Gragert

Date Reviewed: 11/7/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-8-5-100412	VMP-8-5-100412-Dup
VMP-8-9.5-100412	VMP-8-23.5-100412
VMP-20-5-100412	VMP-20-10-100412
VMP-20-25-100412	VMP-21-5-100412
VMP-21-10-100412	VMP-21-25-100412
VMP-21-33-100412	VMP-22-5-100312
VMP-22-5-100312-Dup	VMP-22-10-100312
VMP-22-18-100412	VMP-22-38-100412
VMP-23-5-100312	VMP-23-10-100312
VMP-23-25-100312	VMP-23-40-100312

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, analytes were detected in the method blank. The TO-15 LCSD recovery for carbon disulfide was outside evaluation criteria. The difference in ethanol results for field duplicate pair VMP-22-5-100312/VMP-22-5-100312-Dup was greater than two times (2X) the reporting level; therefore, results were qualified as estimated. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210164A-21A	TO-15	Carbon disulfide	0.28 ppbv / 0.88 µg/m^3
1210164A-21A	TO-15	Methylene chloride	0.18 ppbv / 0.62 µg/m^3
1210164A-21A	TO-15	2,2,4-Trimethylpentane	0.11 ppbv / 0.51 µg/m^3
1210164A-21A	TO-15	trans-1,3-Dichloropropene	0.11 ppbv / 0.50 µg/m^3
1210164A-21A	TO-15	1,2-Dibromoethane	0.10 ppbv / 0.81 µg/m^3
1210164A-21A	TO-15	Chlorobenzene	0.12 ppbv / 0.54 µg/m^3
1210164A-21A	TO-15	m,p-Xylenes	0.12 ppbv / 0.50 µg/m^3
1210164A-21A	TO-15	o-Xylene	0.17 ppbv / 0.72 µg/m^3
1210164A-21A	TO-15	Styrene	0.12 ppbv / 0.53 µg/m^3
1210164A-21A	TO-15	Cumene	0.38 ppbv / 1.9 µg/m^3
1210164A-21A	TO-15	1,1,2,2-Tetrachloroethane	0.095 ppbv / 0.65 µg/m^3
1210164A-21A	TO-15	Propylbenzene	0.27 ppbv / 1.3 µg/m^3
1210164A-21A	TO-15	4-Ethyltoluene	0.27 ppbv / 1.3 µg/m^3
1210164A-21A	TO-15	1,3,5-Trimethylbenzene	0.42 ppbv / 2.0 µg/m^3
1210164A-21A	TO-15	1,2,4-Trimethylbenzene	0.33 ppbv / 1.6 µg/m^3
1210164A-21A	TO-15	1,3-Dichlorobenzene	0.27 ppbv / 1.6 µg/m^3
1210164A-21A	TO-15	1,4-Dichlorobenzene	0.26 ppbv / 1.5 µg/m^3
1210164A-21A	TO-15	alpha-Chlorotoluene	0.13 ppbv / 0.68 µg/m^3
1210164A-21A	TO-15	1,2-Dichlorobenzene	0.26 ppbv / 1.6 µg/m^3
1210164A-21A	TO-15	1,2,4-Trichlrobenzene	0.84 ppbv / 6.2 µg/m^3
1210164A-21A	TO-15	Hexachlorobutadiene	0.80 ppbv / 8.5 µg/m^3
1210164B-21A	Natural gases	Oxygen	0.011%
1210164B-21A	Natural gases	Nitrogen	0.047%

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-8-5-100412	TO-15	Methylene chloride	-	**U**
VMP-8-5-100412	TO-15	2,2,4-Trimethylpentane	-	**U**
VMP-8-5-100412	TO-15	Propylbenzene	-	**U**
VMP-8-5-100412	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-8-5-100412	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-8-5-100412	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-8-5-100412-Dup	TO-15	Methylene chloride	-	**U**
VMP-8-5-100412-Dup	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-8-9.5-100412	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-8-9.5-100412	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-20-5-100412	TO-15	Methylene chloride	-	**U**
VMP-20-10-100412	TO-15	Methylene chloride	-	**U**
VMP-20-10-100412	TO-15	2,2,4-Trimethylpentane	-	**U**
VMP-20-10-100412	TO-15	1,4-Dichlorobenzene	-	**U**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-20-25-100412	TO-15	Methylene chloride	-	U
VMP-20-25-100412	TO-15	2,2,4-Trimethylpentane	-	U
VMP-21-5-100412	TO-15	Methylene chloride	-	U
VMP-21-5-100412	TO-15	4-Ethyltoluene	-	U
VMP-21-10-100412	TO-15	Methylene chloride	-	U
VMP-21-10-100412	TO-15	o-Xylene	-	U
VMP-21-10-100412	TO-15	Propylbenzene	-	U
VMP-21-10-100412	TO-15	4-Ethyltoluene	-	U
VMP-21-10-100412	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-21-33-100412	TO-15	Methylene chloride	-	U
VMP-21-33-100412	TO-15	Styrene	-	U
VMP-21-33-100412	TO-15	4-Ethyltoluene	-	U
VMP-21-33-100412	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-22-5-100312	TO-15	2,2,4-Trimethylpentane	-	U
VMP-22-5-100312	TO-15	m,p-Xylenes	-	U
VMP-22-5-100312	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-22-5-100312-Dup	TO-15	Methylene chloride	-	U
VMP-22-5-100312-Dup	TO-15	m,p-Xylenes	-	U
VMP-22-10-100312	TO-15	Methylene chloride	-	U
VMP-22-10-100312	TO-15	m,p-Xylenes	-	U
VMP-22-10-100312	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-18-100412	TO-15	Methylene chloride	-	U
VMP-22-18-100412	TO-15	1,3-Dichlorobenzene	-	U
VMP-22-18-100412	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-38-100412	TO-15	Carbon disulfide	-	U
VMP-22-38-100412	TO-15	m,p-Xylenes	-	U
VMP-22-38-100412	TO-15	1,3-Dichlorobenzene	-	U
VMP-22-38-100412	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-38-100412	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-23-5-100312	TO-15	Carbon disulfide	-	U
VMP-23-5-100312	TO-15	Chlorobenzene	-	U
VMP-23-5-100312	TO-15	1,4-Dichlorobenzene	-	U
VMP-23-5-100312	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-23-10-100312	TO-15	Carbon disulfide	-	U
VMP-23-10-100312	TO-15	Chlorobenzene	-	U
VMP-23-10-100312	TO-15	1,4-Dichlorobenzene	-	U
VMP-23-25-100312	TO-15	Carbon disulfide	-	U
VMP-23-25-100312	TO-15	Chlorobenzene	-	U
VMP-23-25-100312	TO-15	1,4-Dichlorobenzene	-	U
VMP-23-40-100312	TO-15	Carbon disulfide	-	U
VMP-23-40-100312	TO-15	Chlorobenzene	-	U
VMP-23-40-100312	TO-15	m,p-Xylenes	-	U
VMP-23-40-100312	TO-15	1,4-Dichlorobenzene	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210164A-23A/AA	TO-15	Carbon disulfide	128/**131**	2	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-20-5-100412	TO-15	Carbon disulfide	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-8-5-100412	VMP-8-5-100412-Dup
VMP-22-5-100312	VMP-22-5-100312-Dup

Were field duplicate sample RPDs within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-22-5-100312	VMP-22-5-100312-Dup	TO-15	Ethanol	**>2X RL**	**J/J**

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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10/23/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210164A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
11/1/2012

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WORK ORDER #: 1210164A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/23/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-8-5-100412	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-8-5-100412-Dup	Modified TO-15	7.0 "Hg	15 psi
03A	VMP-8-9.5-100412	Modified TO-15	10.0 "Hg	15 psi
04A	VMP-8-23.5-100412	Modified TO-15	9.0 "Hg	15 psi
05A	VMP-20-5-100412	Modified TO-15	9.0 "Hg	15 psi
06A	VMP-20-10-100412	Modified TO-15	7.5 "Hg	15 psi
07A	VMP-20-25-100412	Modified TO-15	9.5 "Hg	15 psi
08A	VMP-21-5-100412	Modified TO-15	10.5 "Hg	15 psi
09A	VMP-21-10-100412	Modified TO-15	8.5 "Hg	15 psi
10A	VMP-21-25-100412	Modified TO-15	9.0 "Hg	15 psi
11A	VMP-21-33-100412	Modified TO-15	8.5 "Hg	15 psi
12A	VMP-22-5-100312	Modified TO-15	6.0 "Hg	15 psi
13A	VMP-22-5-100312-Dup	Modified TO-15	3.5 "Hg	15 psi
14A	VMP-22-10-100312	Modified TO-15	5.0 "Hg	15 psi
15A	VMP-22-18-100412	Modified TO-15	9.0 "Hg	15 psi
16A	VMP-22-38-100412	Modified TO-15	10.0 "Hg	15 psi
17A	VMP-23-5-100312	Modified TO-15	9.0 "Hg	15 psi
18A	VMP-23-10-100312	Modified TO-15	10.5 "Hg	15 psi
19A	VMP-23-25-100312	Modified TO-15	10.0 "Hg	15 psi
20A	VMP-23-40-100312	Modified TO-15	8.4 "Hg	15 psi
21A	Lab Blank	Modified TO-15	NA	NA
22A	CCV	Modified TO-15	NA	NA
23A	LCS	Modified TO-15	NA	NA

Continued on next page

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WORK ORDER #: 1210164A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/23/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
23AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Rayes DATE: 10/23/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210164A

Twenty 1 Liter Summa Canister samples were received on October 08, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-8-5-100412

Lab ID#: 1210164A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.39 J	6.8	2.0 J
Acetone	14	8.1 J	33	19 J
Methylene Chloride	14	~~0.88 J~~ U	48	~~3.1 J~~ U
Hexane	1.4	0.74 J	4.9	2.6 J
2,2,4-Trimethylpentane	1.4	~~0.14 J~~ U	6.4	~~0.65 J~~ U
Benzene	1.4	0.97 J	4.4	3.1 J
Heptane	1.4	0.47 J	5.6	1.9 J
Toluene	1.4	0.36 J	5.2	1.3 J
Propylbenzene	1.4	~~0.27 J~~ U	6.8	~~1.3 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.40 J~~ U	6.8	~~1.9 J~~ U
1,3-Dichlorobenzene	1.4	~~0.23 J~~ U	8.3	~~1.4 J~~ U
1,4-Dichlorobenzene	1.4	~~0.26 J~~ U	8.3	~~1.6 J~~ U
1,2,4-Trichlorobenzene	5.5	0.82 J	41	6.1 J
Hexachlorobutadiene	5.5	0.71 J	59	7.6 J
Isopentane	5.5	1.1 J	16	3.1 J

Client Sample ID: VMP-8-5-100412-Dup

Lab ID#: 1210164A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.40 J	6.5	2.0 J
Acetone	13	11 J	31	27 J
Methylene Chloride	13	~~0.43 J~~ U	46	~~1.5 J~~ U
Hexane	1.3	0.85 J	4.6	3.0 J
Benzene	1.3	1.2 J	4.2	3.8 J
Heptane	1.3	0.46 J	5.4	1.9 J
Toluene	1.3	0.41 J	5.0	1.5 J
1,4-Dichlorobenzene	1.3	~~0.22 J~~ U	7.9	~~1.3 J~~ U
Isopentane	5.3	0.97 J	16	2.8 J

Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164A-03A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.44 J	7.5	2.2 J
Freon 11	1.5	0.26 J	8.5	1.5 J
Acetone	15	15 J	36	35 J
Methylene Chloride	15	1.3 J	53	4.6 J
Hexane	1.5	2.5	5.3	8.8
Cyclohexane	1.5	1.1 J	5.2	3.9 J
2,2,4-Trimethylpentane	1.5	16	7.1	75
Benzene	1.5	6.7	4.8	21
Heptane	1.5	1.5 J	6.2	6.1 J
Toluene	1.5	1.2 J	5.7	4.3 J
Ethyl Benzene	1.5	0.56 J	6.6	2.4 J
m,p-Xylene	1.5	0.97 J	6.6	4.2 J
1,2,4-Trimethylbenzene	1.5	~~0.69~~ J U	7.4	~~3.4 J~~ U
1,4-Dichlorobenzene	1.5	~~0.21~~ J U	9.1	~~1.3 J~~ U
Isopentane	6.1	8.0	18	24

Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.1	2.6 J
Freon 11	1.4	0.25 J	8.1	1.4 J
Ethanol	5.8	4.0 J	11	7.6 J
Acetone	14	15	34	36
Methylene Chloride	14	~~0.74~~ J U	50	~~2.6 J~~ U
Hexane	1.4	2.3	5.1	8.2
Cyclohexane	1.4	1.2 J	5.0	4.2 J
2,2,4-Trimethylpentane	1.4	15	6.8	69
Benzene	1.4	5.8	4.6	18
Heptane	1.4	1.4	5.9	5.9
Toluene	1.4	0.74 J	5.4	2.8 J
1,3-Dichlorobenzene	1.4	~~0.28~~ J U	8.7	~~1.7 J~~ U
1,4-Dichlorobenzene	1.4	~~0.12~~ J U	8.7	~~0.75~~ J U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164A-04A

Isopentane	5.8	5.0 J	17	15 J

Client Sample ID: VMP-20-5-100412

Lab ID#: 1210164A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	7.1	2.3 J
Freon 11	1.4	0.38 J	8.1	2.1 J
Acetone	14	9.0 J	34	21 J
Carbon Disulfide	5.8	1.5 J J	18	4.7 J J
Methylene Chloride	14	~~0.53 J~~ U	50	~~1.8 J~~ U
Hexane	1.4	0.35 J	5.1	1.2 J
2,2,4-Trimethylpentane	1.4	0.66 J	6.8	3.1 J
Benzene	1.4	2.6	4.6	8.2
Toluene	1.4	0.34 J	5.4	1.3 J
Isopentane	5.8	1.1 J	17	3.2 J

Client Sample ID: VMP-20-10-100412

Lab ID#: 1210164A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.6	2.7 J
Freon 11	1.3	0.85 J	7.6	4.8 J
Acetone	13	7.0 J	32	17 J
Methylene Chloride	13	~~0.64 J~~ U	47	~~2.2 J~~ U
Hexane	1.3	0.58 J	4.7	2.0 J
2,2,4-Trimethylpentane	1.3	~~0.46 J~~ U	6.3	~~2.2 J~~ U
Benzene	1.3	1.6	4.3	5.0
Heptane	1.3	0.41 J	5.5	1.7 J
4-Methyl-2-pentanone	1.3	0.28 J	5.5	1.1 J
Toluene	1.3	0.51 J	5.1	1.9 J
1,4-Dichlorobenzene	1.3	~~0.15 J~~ U	8.1	~~0.88 J~~ U
Isopentane	5.4	1.4 J	16	4.2 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-20-25-100412

Lab ID#: 1210164A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.3	2.5 J
Freon 11	1.5	9.0	8.3	51
Ethanol	5.9	5.8 J	11	11 J
Acetone	15	14 J	35	33 J
Methylene Chloride	15	~~0.53 J~~ U	51	~~1.8 J~~ U
Hexane	1.5	0.34 J	5.2	1.2 J
2,2,4-Trimethylpentane	1.5	~~0.23 J~~ U	6.9	~~1.1 J~~ U
Benzene	1.5	0.45 J	4.7	1.4 J
Toluene	1.5	0.44 J	5.6	1.7 J

Client Sample ID: VMP-21-5-100412

Lab ID#: 1210164A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.40 J	7.7	2.0 J
Ethanol	6.2	9.5	12	18
Acetone	16	9.8 J	37	23 J
2-Propanol	6.2	5.6 J	15	14 J
Methylene Chloride	16	~~0.28 J~~ U	54	~~0.99 J~~ U
Hexane	1.6	0.33 J	5.5	1.2 J
2-Butanone (Methyl Ethyl Ketone)	6.2	2.0 J	18	6.0 J
2,2,4-Trimethylpentane	1.6	1.1 J	7.3	5.2 J
Benzene	1.6	0.57 J	5.0	1.8 J
Heptane	1.6	0.54 J	6.4	2.2 J
4-Methyl-2-pentanone	1.6	27	6.4	110
Toluene	1.6	3.4	5.8	13
Tetrachloroethene	1.6	0.81 J	10	5.5 J
m,p-Xylene	1.6	0.67 J	6.8	2.9 J
Cumene	1.6	4.2	7.6	21
4-Ethyltoluene	1.6	~~0.35 J~~ U	7.6	~~1.7 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-21-10-100412

Lab ID#: 1210164A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.0	2.1 J
Ethanol	5.6	13	11	25
Acetone	14	10 J	33	24 J
2-Propanol	5.6	9.8	14	24
Methylene Chloride	14	~~0.28 J~~ U	49	~~0.96 J~~ U
Hexane	1.4	0.58 J	5.0	2.0 J
2-Butanone (Methyl Ethyl Ketone)	5.6	2.2 J	17	6.5 J
Cyclohexane	1.4	0.45 J	4.8	1.5 J
2,2,4-Trimethylpentane	1.4	3.6	6.6	17
Benzene	1.4	2.4	4.5	7.6
Heptane	1.4	1.1 J	5.8	4.4 J
4-Methyl-2-pentanone	1.4	37	5.8	150
Toluene	1.4	4.1	5.3	16
Tetrachloroethene	1.4	1.1 J	9.6	7.4 J
Ethyl Benzene	1.4	0.66 J	6.1	2.9 J
m,p-Xylene	1.4	1.3 J	6.1	5.6 J
o-Xylene	1.4	~~0.53 J~~ U	6.1	~~2.3 J~~ U
Cumene	1.4	5.1	6.9	25
Propylbenzene	1.4	~~0.37 J~~ U	6.9	~~1.8 J~~ U
4-Ethyltoluene	1.4	~~0.95 J~~ U	6.9	~~4.7 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.70 J~~ U	6.9	~~3.4 J~~ U
Isopentane	5.6	2.6 J	17	7.5 J

Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.1	2.6 J
Freon 11	1.4	0.28 J	8.1	1.6 J
Ethanol	5.8	9.7	11	18
Acetone	14	11 J	34	27 J
2-Propanol	5.8	5.6 J	14	14 J
Hexane	1.4	0.37 J	5.1	1.3 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164A-10A

2-Butanone (Methyl Ethyl Ketone)	5.8	2.5 J	17	7.4 J
Cyclohexane	1.4	0.64 J	5.0	2.2 J
2,2,4-Trimethylpentane	1.4	16	6.8	73
Benzene	1.4	2.4	4.6	7.8
Heptane	1.4	0.51 J	5.9	2.1 J
4-Methyl-2-pentanone	1.4	23	5.9	95
Toluene	1.4	2.4	5.4	9.2
Tetrachloroethene	1.4	5.8	9.8	39
m,p-Xylene	1.4	0.65 J	6.3	2.8 J
Cumene	1.4	4.2	7.1	20
Butane	5.8	3.1 J	14	7.5 J
Isopentane	5.8	4.5 J	17	13 J

Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.56 J	7.0	2.8 J
Ethanol	5.6	11	11	21
Acetone	14	11 J	33	26 J
2-Propanol	5.6	11	14	27
Methylene Chloride	14	~~0.56 J~~ U	49	~~2.0 J~~ U
Hexane	1.4	0.70 J	5.0	2.5 J
2-Butanone (Methyl Ethyl Ketone)	5.6	2.5 J	17	7.4 J
Cyclohexane	1.4	0.75 J	4.8	2.6 J
2,2,4-Trimethylpentane	1.4	8.2	6.6	38
Benzene	1.4	3.6	4.5	12
Heptane	1.4	1.1 J	5.8	4.4 J
4-Methyl-2-pentanone	1.4	23	5.8	93
Toluene	1.4	3.3	5.3	12
Tetrachloroethene	1.4	1.5	9.6	10
Ethyl Benzene	1.4	0.64 J	6.1	2.8 J
m,p-Xylene	1.4	1.2 J	6.1	5.2 J
Styrene	1.4	~~0.24 J~~ U	6.0	~~1.0 J~~ U
Cumene	1.4	4.0	6.9	20

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164A-11A

4-Ethyltoluene	1.4	~~0.42 J~~ U	6.9	~~2.1 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.40 J~~ U	6.9	~~2.0 J~~ U
Butane	5.6	2.5 J	13	6.0 J
Isopentane	5.6	4.1 J	17	12 J

Client Sample ID: VMP-22-5-100312

Lab ID#: 1210164A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Ethanol	5.0	8.3	9.5	16
Acetone	13	13	30	31
2-Propanol	5.0	3.3 J	12	8.2 J
Hexane	1.3	0.64 J	4.4	2.3 J
2-Butanone (Methyl Ethyl Ketone)	5.0	1.5 J	15	4.4 J
2,2,4-Trimethylpentane	1.3	~~0.41 J~~ U	5.9	~~1.9 J~~ U
Benzene	1.3	0.79 J	4.0	2.5 J
Toluene	1.3	0.49 J	4.7	1.8 J
m,p-Xylene	1.3	~~0.24 J~~ U	5.5	~~1.0 J~~ U
1,2,4-Trimethylbenzene	1.3	~~0.26 J~~ U	6.2	~~1.3 J~~ U
Butane	5.0	2.2 J	12	5.1 J
Isopentane	5.0	1.6 J	15	4.7 J

Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.52 J	5.7	2.6 J
Freon 11	1.1	0.20 J	6.4	1.2 J
Ethanol	4.6	30	8.6	56
Acetone	11	17	27	40
2-Propanol	4.6	12	11	29
Methylene Chloride	11	~~0.58 J~~ U	40	~~2.0 J~~ U
Hexane	1.1	1.8	4.0	6.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164A-13A

2-Butanone (Methyl Ethyl Ketone)	4.6	2.7 J	14	7.9 J
Cyclohexane	1.1	0.53 J	3.9	1.8 J
2,2,4-Trimethylpentane	1.1	1.4	5.3	6.4
Benzene	1.1	1.4	3.6	4.5
Heptane	1.1	0.89 J	4.7	3.6 J
Toluene	1.1	1.8	4.3	6.6
2-Hexanone	4.6	0.44 J	19	1.8 J
m,p-Xylene	1.1	~~0.45 J~~ U	5.0	~~2.0 J~~ U
Butane	4.6	3.0 J	11	7.2 J
Isopentane	4.6	3.5 J	14	10 J

Client Sample ID: VMP-22-10-100312

Lab ID#: 1210164A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.49 J	6.0	2.4 J
Freon 11	1.2	0.24 J	6.8	1.4 J
Ethanol	4.8	22	9.1	42
Acetone	12	12	29	30
2-Propanol	4.8	8.6	12	21
Methylene Chloride	12	~~0.85 J~~ U	42	~~2.2 J~~ U
Hexane	1.2	1.3	4.3	4.7
Cyclohexane	1.2	0.92 J	4.2	3.2 J
2,2,4-Trimethylpentane	1.2	18	5.6	85
Benzene	1.2	4.6	3.9	15
Heptane	1.2	0.75 J	5.0	3.1 J
Toluene	1.2	1.7	4.6	6.3
m,p-Xylene	1.2	~~0.43 J~~ U	5.2	~~1.8 J~~ U
1,4-Dichlorobenzene	1.2	~~0.12 J~~ U	7.3	~~0.69 J~~ U
Butane	4.8	2.0 J	12	4.8 J
Isopentane	4.8	4.7 J	14	14 J

Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164A-15A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Freon 11	1.4	0.24 J	8.1	1.3 J
Ethanol	5.8	4.6 J	11	8.7 J
Acetone	14	9.0 J	34	21 J
2-Propanol	5.8	13	14	33
Methylene Chloride	14	~~0.88 J~~ U	50	~~3.0 J~~ U
Tetrahydrofuran	1.4	2.2	4.3	6.6
Chloroform	1.4	2.7	7.0	13
2,2,4-Trimethylpentane	1.4	3.6	6.8	17
Benzene	1.4	1.1 J	4.6	3.6 J
Toluene	1.4	0.45 J	5.4	1.7 J
1,3-Dichlorobenzene	1.4	~~0.24 J~~ U	8.7	~~1.4 J~~ U
1,4-Dichlorobenzene	1.4	~~0.13 J~~ U	8.7	~~0.81 J~~ U
Isopentane	5.8	1.8 J	17	5.3 J

Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.5	2.6 J
Acetone	15	8.6 J	36	20 J
Carbon Disulfide	6.1	~~0.87 J~~ U	19	~~2.7 J~~ U
Methylene Chloride	15	1.0 J	53	3.6 J
Hexane	1.5	0.71 J	5.3	2.5 J
Chloroform	1.5	15	7.4	75
Cyclohexane	1.5	0.35 J	5.2	1.2 J
2,2,4-Trimethylpentane	1.5	12	7.1	56
Benzene	1.5	3.0	4.8	9.6
Heptane	1.5	0.44 J	6.2	1.8 J
Bromodichloromethane	1.5	0.42 J	10	2.8 J
Toluene	1.5	0.70 J	5.7	2.6 J
trans-1,3-Dichloropropene	1.5	0.57 J	6.9	2.6 J
Tetrachloroethene	1.5	1.6	10	11

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164A-16A

m,p-Xylene	1.5	~~0.34 J~~ U	6.6	~~1.4 J~~ U
1,3-Dichlorobenzene	1.5	~~0.29 J~~ U	9.1	~~1.8 J~~ U
1,4-Dichlorobenzene	1.5	~~0.38 J~~ U	9.1	~~2.3 J~~ U
1,2,4-Trichlorobenzene	6.1	~~0.73 J~~ U	45	~~5.4 J~~ U
Isopentane	6.1	2.8 J	18	8.3 J

Client Sample ID: VMP-23-5-100312

Lab ID#: 1210164A-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	7.1	2.2 J
Ethanol	5.8	3.4 J	11	6.5 J
Acetone	14	21	34	50
Carbon Disulfide	5.8	~~0.85 J~~ U	18	~~2.6 J~~ U
Methylene Chloride	14	0.83 J	50	2.9 J
Hexane	1.4	0.44 J	5.1	1.6 J
2-Butanone (Methyl Ethyl Ketone)	5.8	2.0 J	17	6.0 J
Cyclohexane	1.4	0.56 J	5.0	1.9 J
2,2,4-Trimethylpentane	1.4	1.0 J	6.8	4.9 J
Benzene	1.4	3.4	4.6	11
Toluene	1.4	0.36 J	5.4	1.3 J
trans-1,3-Dichloropropene	1.4	2.9	6.6	13
Chlorobenzene	1.4	~~0.27 J~~ U	6.6	~~1.2 J~~ U
1,4-Dichlorobenzene	1.4	~~0.30 J~~ U	8.7	~~1.8 J~~ U
1,2,4-Trichlorobenzene	5.8	~~0.62 J~~ U	43	~~4.6 J~~ U
Isopentane	5.8	1.2 J	17	3.7 J

Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.52 J	7.7	2.6 J
Chloromethane	16	4.0 J	32	8.2 J
Acetone	16	27	37	64

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164A-18A

2-Propanol	6.2	1.6 J	15	4.0 J
Carbon Disulfide	6.2	~~0.98 J~~ U	19	~~3.0 J~~ U
Methylene Chloride	16	1.1 J	54	3.8 J
Hexane	1.6	0.90 J	5.5	3.2 J
Cyclohexane	1.6	1.8	5.4	6.3
2,2,4-Trimethylpentane	1.6	2.4	7.3	11
Benzene	1.6	3.6	5.0	11
Heptane	1.6	0.44 J	6.4	1.8 J
Toluene	1.6	0.47 J	5.8	1.8 J
Chlorobenzene	1.6	~~0.45 J~~ U	7.2	~~2.1 J~~ U
1,4-Dichlorobenzene	1.6	~~0.36 J~~ U	9.3	~~2.2 J~~ U
Butane	6.2	2.2 J	15	5.3 J
Isopentane	6.2	2.8 J	18	8.2 J

Client Sample ID: VMP-23-25-100312

Lab ID#: 1210164A-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.42 J	7.5	2.1 J
Freon 11	1.5	0.36 J	8.5	2.0 J
Ethanol	6.1	3.2 J	11	6.0 J
Acetone	15	36	36	86
Carbon Disulfide	6.1	~~0.91 J~~ U	19	~~2.8 J~~ U
Methylene Chloride	15	1.1 J	53	3.9 J
Hexane	1.5	0.54 J	5.3	1.9 J
2-Butanone (Methyl Ethyl Ketone)	6.1	1.8 J	18	5.2 J
Chloroform	1.5	0.95 J	7.4	4.6 J
Cyclohexane	1.5	1.8	5.2	6.4
2,2,4-Trimethylpentane	1.5	3.5	7.1	16
Benzene	1.5	3.0	4.8	9.5
Toluene	1.5	0.48 J	5.7	1.8 J
Chlorobenzene	1.5	~~0.49 J~~ U	7.0	~~2.2 J~~ U
1,4-Dichlorobenzene	1.5	~~0.23 J~~ U	9.1	~~1.4 J~~ U
Isopentane	6.1	2.5 J	18	7.4 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-23-40-100312

Lab ID#: 1210164A-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	6.9	2.5 J
Bromomethane	14	1.2 J	54	4.6 J
Freon 11	1.4	0.53 J	7.9	3.0 J
Ethanol	5.6	5.7	10	11
Acetone	14	38	33	90
2-Propanol	5.6	1.4 J	14	3.4 J
Carbon Disulfide	5.6	~~1.4 J~~ U	18	~~4.2 J~~ U
Methylene Chloride	14	1.0 J	49	3.5 J
Hexane	1.4	0.91 J	5.0	3.2 J
2-Butanone (Methyl Ethyl Ketone)	5.6	1.4 J	16	4.1 J
Cyclohexane	1.4	2.0	4.8	6.8
2,2,4-Trimethylpentane	1.4	5.7	6.6	27
Benzene	1.4	5.5	4.5	18
Heptane	1.4	0.41 J	5.8	1.7 J
Toluene	1.4	0.60 J	5.3	2.2 J
Chlorobenzene	1.4	~~0.46 J~~ U	6.5	~~2.1 J~~ U
m,p-Xylene	1.4	~~0.27 J~~ U	6.1	~~1.2 J~~ U
1,4-Dichlorobenzene	1.4	~~0.26 J~~ U	8.4	~~1.6 J~~ U
Isopentane	5.6	1.9 J	16	5.5 J

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Client Sample ID: VMP-8-5-100412

Lab ID#: 1210164A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101606**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/16/12 11:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.39 J	6.8	2.0 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	Not Detected	10	Not Detected
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	8.1 J	33	19 J
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	~~0.88 J~~ U	48	~~3.1 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.74 J	4.9	2.6 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	~~0.14 J~~ U	6.4	~~0.65 J~~ U
Benzene	1.4	0.97 J	4.4	3.1 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.47 J	5.6	1.9 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.36 J	5.2	1.3 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-8-5-100412

Lab ID#: 1210164A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101606**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/16/12 11:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	~~0.27 J~~ U	6.8	~~1.3 J~~ U
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.40 J~~ U	6.8	~~1.9 J~~ U
1,3-Dichlorobenzene	1.4	~~0.23 J~~ U	8.3	~~1.4 J~~ U
1,4-Dichlorobenzene	1.4	~~0.26 J~~ U	8.3	~~1.6 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	0.82 J	41	6.1 J
Hexachlorobutadiene	5.5	0.71 J	59	7.6 J
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.1 J	16	3.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-8-5-100412-Dup
Lab ID#: 1210164A-02A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101607**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/16/12 11:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.40 J	6.5	2.0 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.4	Not Detected
Ethanol	5.3	Not Detected	9.9	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	11 J	31	27 J
2-Propanol	5.3	Not Detected	13	Not Detected
Carbon Disulfide	5.3	Not Detected	16	Not Detected
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	~~0.43 J~~ U	46	~~1.5 J~~ U
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	0.85 J	4.6	3.0 J
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.2	Not Detected
Benzene	1.3	1.2 J	4.2	3.8 J
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	0.46 J	5.4	1.9 J
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	0.41 J	5.0	1.5 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: VMP-8-5-100412-Dup

Lab ID#: 1210164A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101607**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/16/12 11:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.7	Not Detected
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	~~0.22 J~~ U	7.9	~~1.3 J~~ U
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	Not Detected	12	Not Detected
Isopentane	5.3	0.97 J	16	2.8 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101608**	**Date of Collection:**	**10/4/12 2:20:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 12:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.44 J	7.5	2.2 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	0.26 J	8.5	1.5 J
Ethanol	6.1	Not Detected	11	Not Detected
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	15 J	36	35 J
2-Propanol	6.1	Not Detected	15	Not Detected
Carbon Disulfide	6.1	Not Detected	19	Not Detected
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	1.3 J	53	4.6 J
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	2.5	5.3	8.8
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	1.1 J	5.2	3.9 J
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	16	7.1	75
Benzene	1.5	6.7	4.8	21
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	1.5 J	6.2	6.1 J
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	1.2 J	5.7	4.3 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101608**	**Date of Collection:**	**10/4/12 2:20:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 12:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	0.56 J	6.6	2.4 J
m,p-Xylene	1.5	0.97 J	6.6	4.2 J
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	~~0.69 J~~ U	7.4	~~3.4 J~~ U
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	~~0.21 J~~ U	9.1	~~1.3 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	Not Detected	45	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	Not Detected	14	Not Detected
Isopentane	6.1	8.0	18	24

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101609**	**Date of Collection:**	**10/4/12 3:13:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.1	2.6 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.25 J	8.1	1.4 J
Ethanol	5.8	4.0 J	11	7.6 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	15	34	36
2-Propanol	5.8	Not Detected	14	Not Detected
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.74 J~~ U	50	~~2.6 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	2.3	5.1	8.2
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	1.2 J	5.0	4.2 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	15	6.8	69
Benzene	1.4	5.8	4.6	18
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	1.4	5.9	5.9
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.74 J	5.4	2.8 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101609**	**Date of Collection:**	**10/4/12 3:13:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	~~0.28 J~~ U	8.7	~~1.7 J~~ U
1,4-Dichlorobenzene	1.4	~~0.12 J~~ U	8.7	~~0.75 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	5.0 J	17	15 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-20-5-100412

Lab ID#: 1210164A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101610**	**Date of Collection:**	**10/4/12 9:46:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 01:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	7.1	2.3 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.38 J	8.1	2.1 J
Ethanol	5.8	Not Detected	11	Not Detected
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	9.0 J	34	21 J
2-Propanol	5.8	Not Detected	14	Not Detected
Carbon Disulfide	5.8	1.5 J ج	18	4.7 J ج
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.53 J~~ ب	50	~~1.8 J~~ ب
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.35 J	5.1	1.2 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	0.66 J	6.8	3.1 J
Benzene	1.4	2.6	4.6	8.2
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.34 J	5.4	1.3 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-20-5-100412

Lab ID#: 1210164A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101610**	**Date of Collection:**	**10/4/12 9:46:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 01:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	1.1 J	17	3.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-20-10-100412
Lab ID#: 1210164A-06A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101611**	**Date of Collection:**	**10/4/12 11:01:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/16/12 01:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.6	2.7 J
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	0.85 J	7.6	4.8 J
Ethanol	5.4	Not Detected	10	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	7.0 J	32	17 J
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	~~0.64 J~~ U	47	~~2.2 J~~ U
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	0.58 J	4.7	2.0 J
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	~~0.46 J~~ U	6.3	~~2.2 J~~ U
Benzene	1.3	1.6	4.3	5.0
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	0.41 J	5.5	1.7 J
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	0.28 J	5.5	1.1 J
Toluene	1.3	0.51 J	5.1	1.9 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: VMP-20-10-100412

Lab ID#: 1210164A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101611**	**Date of Collection:**	**10/4/12 11:01:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/16/12 01:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	~~0.15 J~~ U	8.1	~~0.80 J~~ U
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	Not Detected	13	Not Detected
Isopentane	5.4	1.4 J	16	4.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-20-25-100412

Lab ID#: 1210164A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101612**	**Date of Collection:**	**10/4/12 2:06:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/16/12 02:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.3	2.5 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	9.0	8.3	51
Ethanol	5.9	5.8 J	11	11 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	14 J	35	33 J
2-Propanol	5.9	Not Detected	14	Not Detected
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	~~0.53 J~~ U	51	~~1.8 J~~ U
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.34 J	5.2	1.2 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	~~0.23 J~~ U	6.9	~~1.1 J~~ U
Benzene	1.5	0.45 J	4.7	1.4 J
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	0.44 J	5.6	1.7 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-20-25-100412

Lab ID#: 1210164A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101612**	**Date of Collection:**	**10/4/12 2:06:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/16/12 02:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-21-5-100412

Lab ID#: 1210164A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101613**	**Date of Collection:**	**10/4/12 1:32:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/16/12 02:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.40 J	7.7	2.0 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	32	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	9.5	12	18
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	9.8 J	37	23 J
2-Propanol	6.2	5.6 J	15	14 J
Carbon Disulfide	6.2	Not Detected	19	Not Detected
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	~~0.28 J~~ U	54	~~0.99 J~~ U
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	0.33 J	5.5	1.2 J
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	2.0 J	18	6.0 J
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	Not Detected	5.4	Not Detected
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	1.1 J	7.3	5.2 J
Benzene	1.6	0.57 J	5.0	1.8 J
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	0.54 J	6.4	2.2 J
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	27	6.4	110
Toluene	1.6	3.4	5.8	13
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	0.81 J	10	5.5 J
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-21-5-100412

Lab ID#: 1210164A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101613**	**Date of Collection:**	**10/4/12 1:32:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/16/12 02:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	Not Detected	6.8	Not Detected
m,p-Xylene	1.6	0.67 J	6.8	2.9 J
o-Xylene	1.6	Not Detected	6.8	Not Detected
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	4.2	7.6	21
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.6	~~0.35 J~~ U	7.6	~~1.7 J~~ U
1,3,5-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	Not Detected	15	Not Detected
Isopentane	6.2	Not Detected	18	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-21-10-100412

Lab ID#: 1210164A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101614**	**Date of Collection:**	**10/4/12 2:22:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/16/12 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.0	2.1 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	7.9	Not Detected
Ethanol	5.6	13	11	25
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	10 J	33	24 J
2-Propanol	5.6	9.8	14	24
Carbon Disulfide	5.6	Not Detected	18	Not Detected
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.28 J~~ U	49	~~0.96 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.58 J	5.0	2.0 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	2.2 J	17	6.5 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	0.45 J	4.8	1.5 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	3.6	6.6	17
Benzene	1.4	2.4	4.5	7.6
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	1.1 J	5.8	4.4 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	37	5.8	150
Toluene	1.4	4.1	5.3	16
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	1.1 J	9.6	7.4 J
2-Hexanone	5.6	Not Detected	23	Not Detected

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Client Sample ID: VMP-21-10-100412

Lab ID#: 1210164A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101614**	**Date of Collection:**	**10/4/12 2:22:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/16/12 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	0.66 J	6.1	2.9 J
m,p-Xylene	1.4	1.3 J	6.1	5.6 J
o-Xylene	1.4	~~0.53 J~~ U	6.1	~~2.3 J~~ U
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	5.1	6.9	25
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	~~0.37 J~~ U	6.9	~~1.8 J~~ U
4-Ethyltoluene	1.4	~~0.95 J~~ U	6.9	~~4.7 J~~ U
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.70 J~~ U	6.9	~~3.4 J~~ U
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	Not Detected	13	Not Detected
Isopentane	5.6	2.6 J	17	7.5 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101615**	**Date of Collection:**	**10/4/12 3:14:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 03:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.1	2.6 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.28 J	8.1	1.6 J
Ethanol	5.8	9.7	11	18
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	11 J	34	27 J
2-Propanol	5.8	5.6 J	14	14 J
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	50	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.37 J	5.1	1.3 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	2.5 J	17	7.4 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.64 J	5.0	2.2 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	16	6.8	73
Benzene	1.4	2.4	4.6	7.8
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.51 J	5.9	2.1 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	23	5.9	95
Toluene	1.4	2.4	5.4	9.2
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	5.8	9.8	39
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101615**	**Date of Collection:**	**10/4/12 3:14:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 03:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	0.65 J	6.3	2.8 J
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	4.2	7.1	20
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	3.1 J	14	7.5 J
Isopentane	5.8	4.5 J	17	13 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101616**	**Date of Collection:**	**10/4/12 3:59:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/16/12 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.56 J	7.0	2.8 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	7.9	Not Detected
Ethanol	5.6	11	11	21
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	11 J	33	26 J
2-Propanol	5.6	11	14	27
Carbon Disulfide	5.6	Not Detected	18	Not Detected
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.56 J~~ U	49	~~2.0 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.70 J	5.0	2.5 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	2.5 J	17	7.4 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	0.75 J	4.8	2.6 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	8.2	6.6	38
Benzene	1.4	3.6	4.5	12
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	1.1 J	5.8	4.4 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	23	5.8	93
Toluene	1.4	3.3	5.3	12
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	1.5	9.6	10
2-Hexanone	5.6	Not Detected	23	Not Detected

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Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101616**	**Date of Collection:**	**10/4/12 3:59:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/16/12 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	0.64 J	6.1	2.8 J
m,p-Xylene	1.4	1.2 J	6.1	5.2 J
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	~~0.24 J~~ U	6.0	~~1.0 J~~ U
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	4.0	6.9	20
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	~~0.42 J~~ U	6.9	~~2.1 J~~ U
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.40 J~~ U	6.9	~~2.0 J~~ U
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	2.5 J	13	6.0 J
Isopentane	5.6	4.1 J	17	12 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-22-5-100312

Lab ID#: 1210164A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101617**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/16/12 04:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.0	8.3	9.5	16
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	13	30	31
2-Propanol	5.0	3.3 J	12	8.2 J
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	0.64 J	4.4	2.3 J
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	1.5 J	15	4.4 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	~~0.41 J~~ U	5.9	~~1.9 J~~ U
Benzene	1.3	0.79 J	4.0	2.5 J
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	0.49 J	4.7	1.8 J
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.5	Not Detected
2-Hexanone	5.0	Not Detected	21	Not Detected

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Client Sample ID: VMP-22-5-100312

Lab ID#: 1210164A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101617**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/16/12 04:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	~~0.24 J~~ U	5.5	~~1.0 J~~ U
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	~~0.26 J~~ U	6.2	~~1.3 J~~ U
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	2.2 J	12	5.1 J
Isopentane	5.0	1.6 J	15	4.7 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101618**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**10/16/12 05:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.52 J	5.7	2.6 J
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	0.20 J	6.4	1.2 J
Ethanol	4.6	30	8.6	56
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	17	27	40
2-Propanol	4.6	12	11	29
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	~~0.58 J~~ U	40	~~2.0 J~~ U
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	1.8	4.0	6.2
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	2.7 J	14	7.9 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	0.53 J	3.9	1.8 J
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	1.4	5.3	6.4
Benzene	1.1	1.4	3.6	4.5
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.89 J	4.7	3.6 J
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	1.8	4.3	6.6
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	0.44 J	19	1.8 J

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Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101618**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**10/16/12 05:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	~~0.45 J~~ U	5.0	~~2.0 J~~ U
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Butane	4.6	3.0 J	11	7.2 J
Isopentane	4.6	3.5 J	14	10 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-22-10-100312

Lab ID#: 1210164A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101619**	**Date of Collection:**	**10/3/12 1:50:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**10/16/12 05:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.49 J	6.0	2.4 J
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	0.24 J	6.8	1.4 J
Ethanol	4.8	22	9.1	42
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	12	29	30
2-Propanol	4.8	8.6	12	21
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	~~0.65 J~~ U	42	~~2.2 J~~ U
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	1.3	4.3	4.7
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	0.92 J	4.2	3.2 J
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	18	5.6	85
Benzene	1.2	4.6	3.9	15
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	0.75 J	5.0	3.1 J
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	1.7	4.6	6.3
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected

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Client Sample ID: VMP-22-10-100312

Lab ID#: 1210164A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101619**	**Date of Collection:**	**10/3/12 1:50:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**10/16/12 05:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	~~0.43 J~~ U	5.2	~~1.8 J~~ U
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	~~0.12 J~~ U	7.3	~~0.69 J~~ U
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Butane	4.8	2.0 J	12	4.8 J
Isopentane	4.8	4.7 J	14	14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101623**	**Date of Collection:**	**10/4/12 9:45:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.24 J	8.1	1.3 J
Ethanol	5.8	4.6 J	11	8.7 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	9.0 J	34	21 J
2-Propanol	5.8	13	14	33
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.88 J~~ U	50	~~3.0 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	Not Detected	5.1	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	2.2	4.3	6.6
Chloroform	1.4	2.7	7.0	13
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	3.6	6.8	17
Benzene	1.4	1.1 J	4.6	3.6 J
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.45 J	5.4	1.7 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101623**	**Date of Collection:**	**10/4/12 9:45:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	~~0.24 J~~ U	8.7	~~1.4 J~~ U
1,4-Dichlorobenzene	1.4	~~0.13 J~~ U	8.7	~~0.81 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	1.8 J	17	5.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101624**	**Date of Collection:**	**10/4/12 10:45:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 09:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.5	2.6 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	Not Detected	11	Not Detected
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	8.6 J	36	20 J
2-Propanol	6.1	Not Detected	15	Not Detected
Carbon Disulfide	6.1	~~0.87 J~~ U	19	~~2.7 J~~ U
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	1.0 J	53	3.6 J
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	0.71 J	5.3	2.5 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	15	7.4	75
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	0.35 J	5.2	1.2 J
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	12	7.1	56
Benzene	1.5	3.0	4.8	9.6
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	0.44 J	6.2	1.8 J
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	0.42 J	10	2.8 J
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	0.70 J	5.7	2.6 J
trans-1,3-Dichloropropene	1.5	0.57 J	6.9	2.6 J
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	1.6	10	11
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101624**	**Date of Collection:**	**10/4/12 10:45:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 09:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	~~0.34 J~~ U	6.6	~~1.4 J~~ U
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	~~0.29 J~~ U	9.1	~~1.8 J~~ U
1,4-Dichlorobenzene	1.5	~~0.38 J~~ U	9.1	~~2.3 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	~~0.73 J~~ U	45	~~5.4 J~~ U
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	Not Detected	14	Not Detected
Isopentane	6.1	2.8 J	18	8.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-23-5-100312

Lab ID#: 1210164A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101625**	**Date of Collection:**	**10/3/12 10:22:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 09:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	7.1	2.2 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	3.4 J	11	6.5 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	21	34	50
2-Propanol	5.8	Not Detected	14	Not Detected
Carbon Disulfide	5.8	~~0.85 J~~ U	18	~~2.6 J~~ U
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.83 J	50	2.9 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.44 J	5.1	1.6 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	2.0 J	17	6.0 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.56 J	5.0	1.9 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	1.0 J	6.8	4.9 J
Benzene	1.4	3.4	4.6	11
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.36 J	5.4	1.3 J
trans-1,3-Dichloropropene	1.4	2.9	6.6	13
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-23-5-100312

Lab ID#: 1210164A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101625**	**Date of Collection:**	**10/3/12 10:22:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/16/12 09:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~0.27 J~~ U	6.6	~~1.2 J~~ U
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	~~0.30 J~~ U	8.7	~~1.8 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	~~0.62 J~~ U	43	~~4.6 J~~ U
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	1.2 J	17	3.7 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-23-10-100312
Lab ID#: 1210164A-18A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101626**	**Date of Collection:**	**10/3/12 11:40:00 AM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/16/12 10:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.52 J	7.7	2.6 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	4.0 J	32	8.2 J
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	Not Detected	12	Not Detected
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	27	37	64
2-Propanol	6.2	1.6 J	15	4.0 J
Carbon Disulfide	6.2	~~0.98 J~~ U	19	~~3.0 J~~ U
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	1.1 J	54	3.8 J
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	0.90 J	5.5	3.2 J
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	1.8	5.4	6.3
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	2.4	7.3	11
Benzene	1.6	3.6	5.0	11
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	0.44 J	6.4	1.8 J
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.4	Not Detected
Toluene	1.6	0.47 J	5.8	1.8 J
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	Not Detected	10	Not Detected
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101626**	**Date of Collection:**	**10/3/12 11:40:00 AM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/16/12 10:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	~~0.45 J~~ U	7.2	~~2.1 J~~ U
Ethyl Benzene	1.6	Not Detected	6.8	Not Detected
m,p-Xylene	1.6	Not Detected	6.8	Not Detected
o-Xylene	1.6	Not Detected	6.8	Not Detected
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	Not Detected	7.6	Not Detected
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.6	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	~~0.36 J~~ U	9.3	~~2.2 J~~ U
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	2.2 J	15	5.3 J
Isopentane	6.2	2.8 J	18	8.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: VMP-23-25-100312

Lab ID#: 1210164A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101627**	**Date of Collection:**	**10/3/12 2:30:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 11:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.42 J	7.5	2.1 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	0.36 J	8.5	2.0 J
Ethanol	6.1	3.2 J	11	6.0 J
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	36	36	86
2-Propanol	6.1	Not Detected	15	Not Detected
Carbon Disulfide	6.1	~~0.91 J~~ U	19	~~2.8 J~~ U
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	1.1 J	53	3.9 J
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	0.54 J	5.3	1.9 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	1.8 J	18	5.2 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	0.95 J	7.4	4.6 J
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	1.8	5.2	6.4
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	3.5	7.1	16
Benzene	1.5	3.0	4.8	9.5
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	Not Detected	6.2	Not Detected
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	0.48 J	5.7	1.8 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-23-25-100312

Lab ID#: 1210164A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101627**	**Date of Collection:**	**10/3/12 2:30:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/16/12 11:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	~~0.49 J~~ U	7.0	~~2.2 J~~ U
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	~~0.23 J~~ U	9.1	~~1.4 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	Not Detected	45	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	Not Detected	14	Not Detected
Isopentane	6.1	2.5 J	18	7.4 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: VMP-23-40-100312

Lab ID#: 1210164A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101628**	**Date of Collection:**	**10/3/12 3:30:00 PM**
Dil. Factor:	**2.81**	**Date of Analysis:**	**10/16/12 11:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	6.9	2.5 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	1.2 J	54	4.6 J
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.53 J	7.9	3.0 J
Ethanol	5.6	5.7	10	11
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	38	33	90
2-Propanol	5.6	1.4 J	14	3.4 J
Carbon Disulfide	5.6	~~1.4 J~~ U	18	~~4.2 J~~ U
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	1.0 J	49	3.5 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.91 J	5.0	3.2 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	1.4 J	16	4.1 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	2.0	4.8	6.8
Carbon Tetrachloride	1.4	Not Detected	8.8	Not Detected
2,2,4-Trimethylpentane	1.4	5.7	6.6	27
Benzene	1.4	5.5	4.5	18
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	0.41 J	5.8	1.7 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	0.60 J	5.3	2.2 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.5	Not Detected
2-Hexanone	5.6	Not Detected	23	Not Detected

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Client Sample ID: VMP-23-40-100312

Lab ID#: 1210164A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101628**	**Date of Collection:**	**10/3/12 3:30:00 PM**
Dil. Factor:	**2.81**	**Date of Analysis:**	**10/16/12 11:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~0.46 J~~ U	6.5	~~2.1 J~~ U
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	~~0.27 J~~ U	6.1	~~1.2 J~~ U
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.6	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,4-Dichlorobenzene	1.4	~~0.26 J~~ U	8.4	~~1.6 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	Not Detected	13	Not Detected
Isopentane	5.6	1.9 J	16	5.5 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210164A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.28 J	6.2	0.88 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.18 J	17	0.62 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	0.11 J	2.3	0.51 J
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.11 J	2.3	0.50 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210164A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.10 J	3.8	0.81 J
Chlorobenzene	0.50	0.12 J	2.3	0.54 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.12 J	2.2	0.50 J
o-Xylene	0.50	0.17 J	2.2	0.72 J
Styrene	0.50	0.12 J	2.1	0.53 J
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.38 J	2.4	1.9 J
1,1,2,2-Tetrachloroethane	0.50	0.095 J	3.4	0.65 J
Propylbenzene	0.50	0.27 J	2.4	1.3 J
4-Ethyltoluene	0.50	0.27 J	2.4	1.3 J
1,3,5-Trimethylbenzene	0.50	0.42 J	2.4	2.0 J
1,2,4-Trimethylbenzene	0.50	0.33 J	2.4	1.6 J
1,3-Dichlorobenzene	0.50	0.27 J	3.0	1.6 J
1,4-Dichlorobenzene	0.50	0.26 J	3.0	1.5 J
alpha-Chlorotoluene	0.50	0.13 J	2.6	0.68 J
1,2-Dichlorobenzene	0.50	0.26 J	3.0	1.6 J
1,2,4-Trichlorobenzene	2.0	0.84 J	15	6.2 J
Hexachlorobutadiene	2.0	0.80 J	21	8.5 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: CCV
Lab ID#: 1210164A-22A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:13 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	94
Chloromethane	99
Vinyl Chloride	97
1,3-Butadiene	100
Bromomethane	97
Chloroethane	95
Freon 11	99
Ethanol	99
Freon 113	100
1,1-Dichloroethene	96
Acetone	98
2-Propanol	103
Carbon Disulfide	98
3-Chloropropene	95
Methylene Chloride	104
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	98
Hexane	100
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	98
Tetrahydrofuran	109
Chloroform	100
1,1,1-Trichloroethane	102
Cyclohexane	101
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	102
Benzene	100
1,2-Dichloroethane	103
Heptane	105
Trichloroethene	101
1,2-Dichloropropane	98
1,4-Dioxane	78
Bromodichloromethane	104
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	113
Toluene	101
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	100
Tetrachloroethene	98
2-Hexanone	110

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Client Sample ID: CCV

Lab ID#: 1210164A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:13 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	100
Chlorobenzene	96
Ethyl Benzene	100
m,p-Xylene	100
o-Xylene	103
Styrene	105
Bromoform	105
Cumene	103
1,1,2,2-Tetrachloroethane	98
Propylbenzene	101
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	91
Butane	94
Isopentane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS
Lab ID#: 1210164A-23A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:57 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	102
Chloromethane	99
Vinyl Chloride	105
1,3-Butadiene	108
Bromomethane	102
Chloroethane	101
Freon 11	106
Ethanol	94
Freon 113	109
1,1-Dichloroethene	111
Acetone	103
2-Propanol	110
Carbon Disulfide	128
3-Chloropropene	121
Methylene Chloride	105
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	122
Hexane	107
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	107
Tetrahydrofuran	112
Chloroform	107
1,1,1-Trichloroethane	112
Cyclohexane	109
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	111
Benzene	107
1,2-Dichloroethane	106
Heptane	110
Trichloroethene	108
1,2-Dichloropropane	106
1,4-Dioxane	83
Bromodichloromethane	110
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	118
Toluene	106
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	105
Tetrachloroethene	103
2-Hexanone	115

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Client Sample ID: LCS

Lab ID#: 1210164A-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:57 AM**	

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	109
Chlorobenzene	104
Ethyl Benzene	109
m,p-Xylene	109
o-Xylene	110
Styrene	112
Bromoform	109
Cumene	111
1,1,2,2-Tetrachloroethane	108
Propylbenzene	111
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	100
Butane	97
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD
Lab ID#: 1210164A-23AA
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 09:30 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	104
Chloromethane	90
Vinyl Chloride	107
1,3-Butadiene	109
Bromomethane	104
Chloroethane	102
Freon 11	107
Ethanol	94
Freon 113	110
1,1-Dichloroethene	115
Acetone	104
2-Propanol	112
Carbon Disulfide	131 Q
3-Chloropropene	123
Methylene Chloride	107
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	123
Hexane	108
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	108
Tetrahydrofuran	114
Chloroform	109
1,1,1-Trichloroethane	114
Cyclohexane	112
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	113
Benzene	108
1,2-Dichloroethane	106
Heptane	109
Trichloroethene	110
1,2-Dichloropropane	108
1,4-Dioxane	84
Bromodichloromethane	111
cis-1,3-Dichloropropene	113
4-Methyl-2-pentanone	116
Toluene	108
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	105
Tetrachloroethene	102
2-Hexanone	113

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Client Sample ID: LCSD

Lab ID#: 1210164A-23AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 09:30 AM**	

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	107
Chlorobenzene	103
Ethyl Benzene	106
m,p-Xylene	108
o-Xylene	112
Styrene	111
Bromoform	108
Cumene	110
1,1,2,2-Tetrachloroethane	106
Propylbenzene	110
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	101
Butane	105
Isopentane	105

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	102	70-130

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/05/12
PAGE: 1 of 2 mcc

SAMPLING COMPANY: URS CORPORATION
LEG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LAB DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
LABORATORY ADDRESS: Air Toxics LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
M. Currier, C Williams, C. Kretzler, M. Mittermeyer, S. Voss, S. Jansen
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

*TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
DM	VMP-8-5-100412	10/04/12	1249-1325	3390	-30	-9			X	X					
DM	VMP-8-5-100412-Dup	10/04/12	1249-1325	100188	-30	-8			X	X					
DM	VMP-8-9.5-100412	10/04/12	1350-1420	36554	-30	-10.5			X	X					
DM	VMP-8-23.5-100412	10/04/12	1440-1513	36406	-30	-10			X	X					
DM	VMP-20-5-100412	10/04/12	0946-0946	36695	-29	-9			X	X					
DM	VMP-20-10-100412	10/04/12	1031-1101	36496	-30	-7.5			X	X					
DM	VMP-20-25-100412	10/04/12	1335-1406	33736	-30	-9.5			X	X					
DM	VMP-21-5-100412	10/04/12	1300-1332	36471	-30	-10			X	X					
DM	VMP-21-10-100412	10/04/12	1347-1422	36442	-29.5	-8			X	X					
DM	VMP-21-25-100412	10/04/12	1440-1514	37744	-30	-8.5			X	X					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/5/12	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/8/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Custody Seal Intact?
Y N None Temp 4°C

05/3/06 Revision

1210164

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV SERVICES): 8 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 6 1

DATE: 10/05/12

PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

GTC ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA

State: IL

GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom CA 95630-4719

M. Curner, C Williams, C. Kretzer, M. Mittermeyer S. Voss, S. Jansen

TELEPHONE: FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
1A	VMP-21-33-100412	10/04/12	1528-1659	37672	-30	-8.5			X	X					
2A	VMP-22-5-100312	10/03/12	1035-1105	34658	-27	-8			X	X					
3A	VMP-22-5-100312-Dup	10/03/12	1035-1105	3060	-26.5	-7			X	X					
4A	VMP-22-10-100312	10/03/12	1317-1350	35634	-26.5	-8			X	X					
5A	VMP-22-18-100412	10/04/12	0914-0945	34578	-29	-10			X	X					
6A	VMP-22-38-100412	10/04/12	1015-1045	34614	-30	-11			X	X					
7A	VMP-23-5-100312	10/03/12	0950-1022	34402	-30	-8.5			X	X					
8A	VMP-23-10-100312	10/03/12	1109-1140	34106	-29	-10			X	X					
9A	VMP-23-25-100312	10/03/12	1400-1430	33636	-29	-9			X	X					
10A	VMP-23-40-100312	10/03/12	1500-1530	34661	-29	-9			X	X					

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX Fedex	10/5/12	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Custody Seal Intact? Y N None Temp N/A	10/8/12	0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

1210164

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10/21/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210164B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
11/1/2012

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WORK ORDER #: 1210164B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/21/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-8-5-100412	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-8-5-100412-Dup	Modified ASTM D-1946	7.0 "Hg	15 psi
03A	VMP-8-9.5-100412	Modified ASTM D-1946	10.0 "Hg	15 psi
04A	VMP-8-23.5-100412	Modified ASTM D-1946	9.0 "Hg	15 psi
05A	VMP-20-5-100412	Modified ASTM D-1946	9.0 "Hg	15 psi
06A	VMP-20-10-100412	Modified ASTM D-1946	7.5 "Hg	15 psi
07A	VMP-20-25-100412	Modified ASTM D-1946	9.5 "Hg	15 psi
08A	VMP-21-5-100412	Modified ASTM D-1946	10.5 "Hg	15 psi
09A	VMP-21-10-100412	Modified ASTM D-1946	8.5 "Hg	15 psi
10A	VMP-21-25-100412	Modified ASTM D-1946	9.0 "Hg	15 psi
11A	VMP-21-33-100412	Modified ASTM D-1946	8.5 "Hg	15 psi
12A	VMP-22-5-100312	Modified ASTM D-1946	6.0 "Hg	15 psi
13A	VMP-22-5-100312-Dup	Modified ASTM D-1946	3.5 "Hg	15 psi
14A	VMP-22-10-100312	Modified ASTM D-1946	5.0 "Hg	15 psi
15A	VMP-22-18-100412	Modified ASTM D-1946	9.0 "Hg	15 psi
16A	VMP-22-38-100412	Modified ASTM D-1946	10.0 "Hg	15 psi
17A	VMP-23-5-100312	Modified ASTM D-1946	9.0 "Hg	15 psi
18A	VMP-23-10-100312	Modified ASTM D-1946	10.5 "Hg	15 psi
19A	VMP-23-25-100312	Modified ASTM D-1946	10.0 "Hg	15 psi
20A	VMP-23-40-100312	Modified ASTM D-1946	9.4 "Hg	15 psi
21A	Lab Blank	Modified ASTM D-1946	NA	NA
21B	Lab Blank	Modified ASTM D-1946	NA	NA
22A	LCS	Modified ASTM D-1946	NA	NA

Continued on next page

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WORK ORDER #: 1210164B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/21/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
22AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/21/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210164B

Twenty 1 Liter Summa Canister samples were received on October 08, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-8-5-100412

Lab ID#: 1210164B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Methane	0.00028	0.000097 J
Carbon Dioxide	0.028	2.0
Helium	0.14	0.11 J

Client Sample ID: VMP-8-5-100412-Dup

Lab ID#: 1210164B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Nitrogen	0.26	80
Methane	0.00026	0.000099 J
Carbon Dioxide	0.026	2.0
Helium	0.13	0.051 J

Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	16
Nitrogen	0.30	80
Methane	0.00030	0.00016 J
Carbon Dioxide	0.030	4.4
Helium	0.15	0.032 J

Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	78

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164B-04A

Methane	0.00029	0.00038
Carbon Dioxide	0.029	5.9
Helium	0.14	0.14 J

Client Sample ID: VMP-20-5-100412

Lab ID#: 1210164B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	15
Nitrogen	0.29	79
Methane	0.00029	0.000051 J
Carbon Dioxide	0.029	6.0
Helium	0.14	0.063 J

Client Sample ID: VMP-20-10-100412

Lab ID#: 1210164B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	13
Nitrogen	0.27	79
Methane	0.00027	0.000037 J
Carbon Dioxide	0.027	8.3
Helium	0.13	0.055 J

Client Sample ID: VMP-20-25-100412

Lab ID#: 1210164B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	80
Carbon Dioxide	0.030	7.0
Helium	0.15	0.056 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-21-5-100412

Lab ID#: 1210164B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	17
Nitrogen	0.31	79
Methane	0.00031	0.000039 J
Carbon Dioxide	0.031	4.1
Helium	0.16	0.014 J

Client Sample ID: VMP-21-10-100412

Lab ID#: 1210164B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	79
Methane	0.00028	0.000019 J
Carbon Dioxide	0.028	6.6
Helium	0.14	0.017 J

Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	10
Nitrogen	0.29	81
Methane	0.00029	0.000058 J
Carbon Dioxide	0.029	8.9
Helium	0.14	0.037 J

Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.0
Nitrogen	0.28	83

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164B-11A

Methane	0.00028	0.000088 J
Carbon Dioxide	0.028	10
Helium	0.14	0.019 J

Client Sample ID: VMP-22-5-100312

Lab ID#: 1210164B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	19
Nitrogen	0.25	78
Methane	0.00025	0.000072 J
Carbon Dioxide	0.025	1.0
Helium	0.13	1.5

Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	79
Methane	0.00023	0.000098 J
Carbon Dioxide	0.023	0.90
Helium	0.11	0.45

Client Sample ID: VMP-22-10-100312

Lab ID#: 1210164B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	19
Nitrogen	0.24	80
Methane	0.00024	0.000044 J
Carbon Dioxide	0.024	1.5
Helium	0.12	0.047 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	78
Methane	0.00029	0.000018 J
Carbon Dioxide	0.029	2.9
Helium	0.14	0.029 J

Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	16
Nitrogen	0.30	78
Methane	0.00030	0.000021 J
Carbon Dioxide	0.030	5.5
Helium	0.15	0.063 J

Client Sample ID: VMP-23-5-100312

Lab ID#: 1210164B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	80
Methane	0.00029	0.000088 J
Carbon Dioxide	0.029	0.60
Helium	0.14	0.053 J

Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164B-18A

Methane	0.00031	0.000064 J
Carbon Dioxide	0.031	0.80
Helium	0.16	0.051 J

Client Sample ID: VMP-23-25-100312

Lab ID#: 1210164B-19A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	79
Carbon Dioxide	0.030	3.6
Helium	0.15	0.059 J

Client Sample ID: VMP-23-40-100312

Lab ID#: 1210164B-20A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	15
Nitrogen	0.29	79
Methane	0.00029	0.000031 J
Carbon Dioxide	0.029	5.6
Helium	0.15	0.081 J

eurofins | Air Toxics

Client Sample ID: VMP-8-5-100412

Lab ID#: 1210164B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101705**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/17/12 09:17 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000097 J
Carbon Dioxide	0.028	2.0
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.11 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-8-5-100412-Dup

Lab ID#: 1210164B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101706**	**Date of Collection:**	**10/4/12 1:25:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/17/12 09:39 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000099 J
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.051 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-8-9.5-100412

Lab ID#: 1210164B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101708**	**Date of Collection:**	**10/4/12 2:20:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/17/12 10:29 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	16
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00016 J
Carbon Dioxide	0.030	4.4
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.032 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-8-23.5-100412

Lab ID#: 1210164B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101709**	**Date of Collection:**	**10/4/12 3:13:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/17/12 10:59 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00038
Carbon Dioxide	0.029	5.9
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-20-5-100412

Lab ID#: 1210164B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101710**	**Date of Collection:**	**10/4/12 9:46:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/17/12 11:26 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	15
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000051 J
Carbon Dioxide	0.029	6.0
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.063 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-20-10-100412

Lab ID#: 1210164B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101711**	**Date of Collection:**	**10/4/12 11:01:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/17/12 11:54 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	13
Nitrogen	0.27	79
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.000037 J
Carbon Dioxide	0.027	8.3
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.055 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-20-25-100412

Lab ID#: 1210164B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101712**	**Date of Collection:**	**10/4/12 2:06:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/17/12 12:21 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	7.0
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.056 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-21-5-100412

Lab ID#: 1210164B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101713**	**Date of Collection:**	**10/4/12 1:32:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/17/12 12:45 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	17
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.000039 J
Carbon Dioxide	0.031	4.1
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	0.014 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-21-10-100412

Lab ID#: 1210164B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101714**	**Date of Collection:**	**10/4/12 2:22:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/17/12 01:08 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000019 J
Carbon Dioxide	0.028	6.6
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.017 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-21-25-100412

Lab ID#: 1210164B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101715**	**Date of Collection:**	**10/4/12 3:14:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/17/12 01:35 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	10
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000058 J
Carbon Dioxide	0.029	8.9
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.037 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-21-33-100412

Lab ID#: 1210164B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101716**	**Date of Collection:**	**10/4/12 3:59:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/17/12 02:01 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.0
Nitrogen	0.28	83
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000088 J
Carbon Dioxide	0.028	10
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-22-5-100312

Lab ID#: 1210164B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101717**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/17/12 02:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	19
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.000072 J
Carbon Dioxide	0.025	1.0
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	1.5

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-22-5-100312-Dup

Lab ID#: 1210164B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101718**	**Date of Collection:**	**10/3/12 11:05:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**10/17/12 02:54 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	79
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.000098 J
Carbon Dioxide	0.023	0.90
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	0.45

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-22-10-100312

Lab ID#: 1210164B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101719**	**Date of Collection:**	**10/3/12 1:50:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**10/17/12 03:15 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	19
Nitrogen	0.24	80
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.000044 J
Carbon Dioxide	0.024	1.5
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	0.047 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-22-18-100412

Lab ID#: 1210164B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101720**	**Date of Collection:**	**10/4/12 9:45:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/17/12 03:40 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000018 J
Carbon Dioxide	0.029	2.9
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.029 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-22-38-100412

Lab ID#: 1210164B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101721**	**Date of Collection:**	**10/4/12 10:45:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/17/12 04:06 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	16
Nitrogen	0.30	78
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000021 J
Carbon Dioxide	0.030	5.5
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.063 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-23-5-100312

Lab ID#: 1210164B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101722**	**Date of Collection:**	**10/3/12 10:22:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/17/12 04:31 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000088 J
Carbon Dioxide	0.029	0.60
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.053 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-23-10-100312

Lab ID#: 1210164B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101723**	**Date of Collection:**	**10/3/12 11:40:00 AM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/17/12 04:55 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.000064 J
Carbon Dioxide	0.031	0.80
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	0.051 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-23-25-100312

Lab ID#: 1210164B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101724**	**Date of Collection:**	**10/3/12 2:30:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/17/12 05:52 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	3.6
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.059 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-23-40-100312

Lab ID#: 1210164B-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101725**	**Date of Collection:**	**10/3/12 3:30:00 PM**
Dil. Factor:	**2.94**	**Date of Analysis:**	**10/17/12 06:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	15
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000031 J
Carbon Dioxide	0.029	5.6
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.15	0.081 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210164B-21A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 08:48 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.011 J
Nitrogen	0.10	0.047 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210164B-21B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101703b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 08:22 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210164B-22A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 07:59 AM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	96
Ethane	99
Ethene	97
Helium	101

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210164B-22AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101726**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 06:46 PM**

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	97
Methane	98
Carbon Dioxide	98
Ethane	99
Ethene	96
Helium	103

Container Type: NA - Not Applicable

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/05/12
PAGE: 1 of 2 incl

SAMPLING COMPANY: URS CORPORATION
LEG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

EDD DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
M. Currier, C Williams, C. Kretzer, M. Mittemeyer. S. Voss, S. Jansen

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-8-5-100412	10/04/12	1249-1325	3390	-30	-9			X	X	
02A	VMP-8-5-100412-Dup	10/04/12	1249-1325	100198	-30	-8			X	X	
03A	VMP-8-9.5-100412	10/04/12	1350-1429	36564	-30	-10.5			X	X	
04A	VMP-8-23.5-100412	10/04/12	1440-1513	36405	-30	-10			X	X	
05A	VMP-20-5-100412	10/04/12	0916-0946	36658	-29	-9			X	X	
06A	VMP-20-10-100412	10/04/12	1031-1101	36496	-30	-7.5			X	X	
07A	VMP-20-25-100412	10/04/12	1335-1406	33706	-30	-9.5			X	X	
08A	VMP-21-5-100412	10/04/12	1300 1332	36471	-30	-10			X	X	
09A	VMP-21-10-100412	10/04/12	1347-1422	36442	-29.5	-8			X	X	
10A	VMP-21-25-100412	10/04/12	1440-1514	07744	-30	-8.5			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/5/12	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) Fedex	Date: 10/8/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Custody Seal Intact? Y N None Temp 4°C

05/2/06 Revision

1210164

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #
INCIDENT # (ENV SERVICES): 97216640
SAP #: 340061
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/05/12
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom CA 95630-4719
M. Currier, C Williams, C. Kretzer, M. Mittermeyer S. Voss, S. Jansen
TELEPHONE:
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
1H	VMP-21-33-100412	10/04/12	1528-1559	3/672	-30	-8.5			X	X					
12A	VMP-22-5-100312	10/03/12	1035-1105	34658	-27	-8			X	X					
3A	VMP-22-5-100312-Dup	10/03/12	1035-1105	3060	-26.5	-7			X	X					
14A	VMP-22-10-100312	10/03/12	1317-1350	35634	-26.5	-8			X	X					
5A	VMP-22-18-100412	10/04/12	0914-0945	34578	-29	-10			X	X					
4A	VMP-22-38-100412	10/04/12	1015-1045	34614	-30	-11			X	X					
17A	VMP-23-5-100312	10/03/12	0950-1022	24402	-30	-8.5			X	X					
8A	VMP-23-10-100312	10/03/12	1109-1140	34106	-29	-10			X	X					
19A	VMP-23-25-100312	10/03/12	1400 1430	33636	-29	-9			X	X					
20A	VMP-23-40-100312	10/03/12	1500-1530	34661	-29	-9			X	X					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX Fedex	Date: 10/5/12	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/8/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Custody Seal Intact? (Y) N None Temp N/A

05/2/06 Revision

1210164

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210193A,B

Data Reviewer: Elizabeth Kunkel

Peer Reviewer: Steve Gragert

Date Reviewed: 11/5/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
VMP-20-39.5-100412

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-20-39.5-100412 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form; however, the canister identification number did not match the canister number on the COC; the sample was reported using the proper sample ID.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210193A-02A	TO-15	trans-1,3-Dichloropropene	0.083 ppbv / 0.38 µg/m^3
1210193A-02A	TO-15	m,p-Xylenes	0.11 ppbv / 0.48 µg/m^3
1210193A-02A	TO-15	o-Xylene	0.15 ppbv / 0.67 µg/m^3
1210193A-02A	TO-15	Cumene	0.15 ppbv / 0.76 µg/m^3
1210193A-02A	TO-15	Propylbenzene	0.13 ppbv / 0.64 µg/m^3
1210193A-02A	TO-15	4-Ethyltoluene	0.27 ppbv / 1.3 µg/m^3
1210193A-02A	TO-15	1,3,5-Trimethylbenzene	0.21 ppbv / 1.0 µg/m^3
1210193A-02A	TO-15	1,2,4-Trimethylbenzene	0.23 ppbv / 1.1 µg/m^3
1210193A-02A	TO-15	1,3-Dichlorobenzene	0.11 ppbv / 0.66 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210193A-02A	TO-15	1,4-Dichlrobenzene	0.11 ppbv / 0.69 µg/m^3
1210193A-02A	TO-15	1,2,4-Trichlorobenzene	0.32 ppbv / 2.4 µg/m^3
1210193A-02A	TO-15	Hexachlorobutadiene	0.33 ppbv / 3.5 µg/m^3
1210193B-02A	Natural gases	Oxygen	0.010%
1210193B-02A	Natural gases	Nitrogen	0.035%

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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10/25/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #:
Workorder #: 1210193A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/9/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
11/2/2012

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WORK ORDER #: 1210193A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	Roxana Soil Vapor
DATE RECEIVED:	10/09/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-20-39.5-100412	Modified TO-15	9.0 "Hg	15 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/25/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210193A

One 1 Liter Summa Canister sample was received on October 09, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-20-39.5-100412 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

Dilution was performed on sample VMP-20-39.5-100412 due to the presence of high level target species.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-20-39.5-100412

Lab ID#: 1210193A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	3600	730 J	7400	1500 J
Acetone	3600	19000	8600	44000
2-Propanol	1400	560 J	3500	1400 J
Carbon Disulfide	1400	1400 J	4500	4200 J
Methylene Chloride	3600	300 J	12000	1000 J
2,2,4-Trimethylpentane	360	88000	1700	410000
Benzene	360	88 J	1200	280 J
Toluene	360	460	1400	1700
m,p-Xylene	360	110 J	1600	460 J
Styrene	360	55 J	1500	230 J
1,4-Dichlorobenzene	360	48 J	2200	290 J
Butane	1400	620 J	3400	1500 J
Isopentane	1400	580 J	4300	1700 J

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Client Sample ID: VMP-20-39.5-100412

Lab ID#: 1210193A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101809**	**Date of Collection:**	**10/4/12 3:10:00 PM**
Dil. Factor:	**722**	**Date of Analysis:**	**10/18/12 01:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	360	Not Detected	1800	Not Detected
Freon 114	360	Not Detected	2500	Not Detected
Chloromethane	3600	730 J	7400	1500 J
Vinyl Chloride	360	Not Detected	920	Not Detected
1,3-Butadiene	360	Not Detected	800	Not Detected
Bromomethane	3600	Not Detected	14000	Not Detected
Chloroethane	1400	Not Detected	3800	Not Detected
Freon 11	360	Not Detected	2000	Not Detected
Ethanol	1400	Not Detected	2700	Not Detected
Freon 113	360	Not Detected	2800	Not Detected
1,1-Dichloroethene	360	Not Detected	1400	Not Detected
Acetone	3600	19000	8600	44000
2-Propanol	1400	560 J	3500	1400 J
Carbon Disulfide	1400	1400 J	4500	4200 J
3-Chloropropene	1400	Not Detected	4500	Not Detected
Methylene Chloride	3600	300 J	12000	1000 J
Methyl tert-butyl ether	360	Not Detected	1300	Not Detected
trans-1,2-Dichloroethene	360	Not Detected	1400	Not Detected
Hexane	360	Not Detected	1300	Not Detected
1,1-Dichloroethane	360	Not Detected	1500	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1400	Not Detected	4200	Not Detected
cis-1,2-Dichloroethene	360	Not Detected	1400	Not Detected
Tetrahydrofuran	360	Not Detected	1100	Not Detected
Chloroform	360	Not Detected	1800	Not Detected
1,1,1-Trichloroethane	360	Not Detected	2000	Not Detected
Cyclohexane	360	Not Detected	1200	Not Detected
Carbon Tetrachloride	360	Not Detected	2300	Not Detected
2,2,4-Trimethylpentane	360	88000	1700	410000
Benzene	360	88 J	1200	280 J
1,2-Dichloroethane	360	Not Detected	1500	Not Detected
Heptane	360	Not Detected	1500	Not Detected
Trichloroethene	360	Not Detected	1900	Not Detected
1,2-Dichloropropane	360	Not Detected	1700	Not Detected
1,4-Dioxane	1400	Not Detected	5200	Not Detected
Bromodichloromethane	360	Not Detected	2400	Not Detected
cis-1,3-Dichloropropene	360	Not Detected	1600	Not Detected
4-Methyl-2-pentanone	360	Not Detected	1500	Not Detected
Toluene	360	460	1400	1700
trans-1,3-Dichloropropene	360	Not Detected	1600	Not Detected
1,1,2-Trichloroethane	360	Not Detected	2000	Not Detected
Tetrachloroethene	360	Not Detected	2400	Not Detected
2-Hexanone	1400	Not Detected	5900	Not Detected

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Client Sample ID: VMP-20-39.5-100412

Lab ID#: 1210193A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101809**	**Date of Collection:**	**10/4/12 3:10:00 PM**
Dil. Factor:	**722**	**Date of Analysis:**	**10/18/12 01:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	360	Not Detected	3100	Not Detected
1,2-Dibromoethane (EDB)	360	Not Detected	2800	Not Detected
Chlorobenzene	360	Not Detected	1700	Not Detected
Ethyl Benzene	360	Not Detected	1600	Not Detected
m,p-Xylene	360	110 J	1600	460 J
o-Xylene	360	Not Detected	1600	Not Detected
Styrene	360	55 J	1500	230 J
Bromoform	360	Not Detected	3700	Not Detected
Cumene	360	Not Detected	1800	Not Detected
1,1,2,2-Tetrachloroethane	360	Not Detected	2500	Not Detected
Propylbenzene	360	Not Detected	1800	Not Detected
4-Ethyltoluene	360	Not Detected	1800	Not Detected
1,3,5-Trimethylbenzene	360	Not Detected	1800	Not Detected
1,2,4-Trimethylbenzene	360	Not Detected	1800	Not Detected
1,3-Dichlorobenzene	360	Not Detected	2200	Not Detected
1,4-Dichlorobenzene	360	48 J	2200	290 J
alpha-Chlorotoluene	360	Not Detected	1900	Not Detected
1,2-Dichlorobenzene	360	Not Detected	2200	Not Detected
1,2,4-Trichlorobenzene	1400	Not Detected	11000	Not Detected
Hexachlorobutadiene	1400	Not Detected	15000	Not Detected
Butane	1400	620 J	3400	1500 J
Isopentane	1400	580 J	4300	1700 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210193A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101806d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.083 J	2.3	0.38 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210193A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101806d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.11 J	2.2	0.48 J
o-Xylene	0.50	0.15 J	2.2	0.67 J
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.15 J	2.4	0.76 J
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.13 J	2.4	0.64 J
4-Ethyltoluene	0.50	0.27 J	2.4	1.3 J
1,3,5-Trimethylbenzene	0.50	0.21 J	2.4	1.0 J
1,2,4-Trimethylbenzene	0.50	0.23 J	2.4	1.1 J
1,3-Dichlorobenzene	0.50	0.11 J	3.0	0.66 J
1,4-Dichlorobenzene	0.50	0.11 J	3.0	0.69 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.32 J	15	2.4 J
Hexachlorobutadiene	2.0	0.33 J	21	3.5 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: CCV

Lab ID#: 1210193A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:09 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	94
Chloromethane	100
Vinyl Chloride	96
1,3-Butadiene	103
Bromomethane	96
Chloroethane	96
Freon 11	99
Ethanol	98
Freon 113	98
1,1-Dichloroethene	98
Acetone	98
2-Propanol	106
Carbon Disulfide	97
3-Chloropropene	93
Methylene Chloride	103
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	98
Hexane	101
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	98
Tetrahydrofuran	113
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	99
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	103
Benzene	99
1,2-Dichloroethane	102
Heptane	105
Trichloroethene	99
1,2-Dichloropropane	98
1,4-Dioxane	80
Bromodichloromethane	100
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	112
Toluene	99
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	98
Tetrachloroethene	95
2-Hexanone	108

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Client Sample ID: CCV

Lab ID#: 1210193A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:09 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	98
Chlorobenzene	94
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	101
Styrene	103
Bromoform	102
Cumene	100
1,1,2,2-Tetrachloroethane	97
Propylbenzene	99
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	88
Butane	98
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1210193A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:44 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	99
Chloromethane	98
Vinyl Chloride	106
1,3-Butadiene	108
Bromomethane	102
Chloroethane	100
Freon 11	106
Ethanol	95
Freon 113	107
1,1-Dichloroethene	111
Acetone	101
2-Propanol	110
Carbon Disulfide	128
3-Chloropropene	118
Methylene Chloride	107
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	118
Hexane	106
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	104
Tetrahydrofuran	113
Chloroform	106
1,1,1-Trichloroethane	110
Cyclohexane	108
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	111
Benzene	104
1,2-Dichloroethane	105
Heptane	107
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	78
Bromodichloromethane	106
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	114
Toluene	102
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	105
Tetrachloroethene	102
2-Hexanone	112

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Client Sample ID: LCS

Lab ID#: 1210193A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:44 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	106
Chlorobenzene	101
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	108
Styrene	109
Bromoform	106
Cumene	108
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	99
Butane	100
Isopentane	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1210193A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101804**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:16 AM**

Compound	%Recovery
Freon 12	102
Freon 114	98
Chloromethane	94
Vinyl Chloride	102
1,3-Butadiene	106
Bromomethane	101
Chloroethane	97
Freon 11	102
Ethanol	93
Freon 113	104
1,1-Dichloroethene	110
Acetone	102
2-Propanol	108
Carbon Disulfide	125
3-Chloropropene	115
Methylene Chloride	105
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	115
Hexane	106
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	104
Tetrahydrofuran	111
Chloroform	103
1,1,1-Trichloroethane	107
Cyclohexane	106
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	108
Benzene	102
1,2-Dichloroethane	103
Heptane	107
Trichloroethene	102
1,2-Dichloropropane	103
1,4-Dioxane	79
Bromodichloromethane	105
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	113
Toluene	102
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	102
Tetrachloroethene	100
2-Hexanone	112

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Client Sample ID: LCSD

Lab ID#: 1210193A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:16 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	105
m,p-Xylene	108
o-Xylene	109
Styrene	108
Bromoform	106
Cumene	108
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	100
Butane	94
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

1210193

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOACH ☐ CONSULTANT ☐ EXXES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moschegian
PO. #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 8 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/08/12
PAGE 1 of 1

URS CORPORATION
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
Air Toxics LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
314-429-0100 | 314-429-0462 | Robert.Moschegian@urs.com

SITE ADDRESS: Street and City: 600 SOUTH CENTRAL AVE – ROXANA | State: IL
Elizabeth Kunkel, URS, St. Louis | PHONE NO: 314-743-4179 | Elizabeth.Kunkel@URSCorp.com
S. Voss, S. Janson
CONSULTANT PROJECT NAME: Roxana Soil Vapor

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ IA - RWQCB REPORT FORMAT ☑ VST AGENCY
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
1	VMP-20-39.5-100412	10/04/12	1440-1518	37165	-29.5	-8.5			X	X	

10/8/12

Relinquished by (Signature): [signature] | Received by (Signature): FEDEX | Date: 10/8/12 | Time: 1700
Relinquished by (Signature): [signature] | Received by (Signature): [signature] ATL | Date: 10/9/12 | Time: 0900
Relinquished by (Signature): | Received by (Signature): | Date: | Time:

Custody Seal Intact?
Y N None Temp N/A

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10/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #:
Workorder #: 1210193B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/9/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
11/2/2012

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WORK ORDER #: 1210193B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	Roxana Soil Vapor
DATE RECEIVED:	10/09/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-20-39.5-100412	Modified ASTM D-1946	9.0 "Hg	15 psi
02A	Lab Blank	Modified ASTM D-1946	NA	NA
02B	Lab Blank	Modified ASTM D-1946	NA	NA
03A	LCS	Modified ASTM D-1946	NA	NA
03AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 10/26/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210193B

One 1 Liter Summa Canister sample was received on October 09, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-20-39.5-100412 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-20-39.5-100412

Lab ID#: 1210193B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.4
Nitrogen	0.29	89
Methane	0.00029	0.12
Carbon Dioxide	0.029	9.6
Helium	0.14	0.084 J

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Client Sample ID: VMP-20-39.5-100412

Lab ID#: 1210193B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101741**	**Date of Collection:**	**10/4/12 3:10:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 10:54 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.4
Nitrogen	0.29	89
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.12
Carbon Dioxide	0.029	9.6
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.084 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210193B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101734a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 07:37 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.010 J
Nitrogen	0.10	0.035 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210193B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101729ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 08:32 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210193B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101728**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/12 08:11 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	102
Methane	101
Carbon Dioxide	97
Ethane	103
Ethene	99
Helium	109

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210193B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9101742**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 11:25 AM**	

Compound	%Recovery
Oxygen	98
Nitrogen	101
Carbon Monoxide	98
Methane	102
Carbon Dioxide	99
Ethane	103
Ethene	100
Helium	101

Container Type: NA - Not Applicable

1210193

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CN ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/08/12

PO #:

SAP #: 3 4 0 0 6 1

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300: ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth.Kunkel@URSCorp.com

CONSULTANT PROJECT NAME: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

S. Voss, S. Jansen

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Sec To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
21H	VMP-20-39.5-100412	10/04/12	1440-1510	37156	-29.5	-8.5			X	X	

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/8/12	1700
Relinquished by: (Signature)	Received by: (Signature)	10/9/12	1000
Relinquished by: (Signature)	Received by: (Signature)		

Custody Seal Intact? Y N None Temp N/A

05/2006 Revision

SVE System O&M 2012 Data Review

Laboratory SDG: 1210194A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/2/2013

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-09282012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-09282012 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-15 CCV recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No problems were indicated on the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1210194A-02A	TO-15	1,4-Dichlorobenzene	1.3 ppbv / 8.0 µg/m^3
1210194A-02A	TO-15	alpha-Chlorotoluene	1.2 ppbv / 6.1 µg/m^3
1210194A-02A	TO-15	1,2,4-Trichlorobenzene	15 ppbv / 110 µg/m^3
1210194A-02A	TO-15	Hexachlorobutadiene	9.0 ppbv / 96 µg/m^3
1210194B-02A	ASTM D-1945	Nitrogen	0.047 %
1210194C-02A	TO-3	TPH (C2-C10)	0.012 ppmv / 0.051 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification was necessary.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1210194A-04A/AA	TO-15	1,2,4-Trichlorobenzene	**136**/128	6	70-130/25
1210194A-04A/AA	TO-15	Hexachlorobutadiene	**133**/119	11	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1210194A-03A	TO-15	1,2,4-Trichorobenzene	**135**	70-130
1210194A-03A	TO-15	Hexachlorobutadiene	**132**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

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10/21/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #:
Workorder #: 1210194A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/9/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/2/13

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WORK ORDER #: 1210194A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	Roxana SVE O&M
DATE RECEIVED:	10/09/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-09282012	Modified TO-15	8.6 "Hg	15 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 10/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210194A

One 1 Liter Summa Canister sample was received on October 09, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-09282012 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	2900	420	10000
Cyclohexane	120	640	410	2200
2,2,4-Trimethylpentane	120	2300	550	11000
Benzene	120	440	380	1400
Heptane	120	540	480	2200
Toluene	120	110 J	440	400 J
m,p-Xylene	120	36 J	510	150 J
Butane	470	9300	1100	22000
Isopentane	470	15000	1400	43000

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Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14101219**	**Date of Collection:**	**9/28/12 9:00:00 AM**
Dil. Factor:	**23.6**	**Date of Analysis:**	**10/12/12 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	580	Not Detected
Freon 114	120	Not Detected	820	Not Detected
Chloromethane	470	Not Detected	970	Not Detected
Vinyl Chloride	120	Not Detected	300	Not Detected
1,3-Butadiene	120	Not Detected	260	Not Detected
Bromomethane	120	Not Detected	460	Not Detected
Chloroethane	470	Not Detected	1200	Not Detected
Freon 11	120	Not Detected	660	Not Detected
Ethanol	470	Not Detected	890	Not Detected
Freon 113	120	Not Detected	900	Not Detected
1,1-Dichloroethene	120	Not Detected	470	Not Detected
Acetone	470	Not Detected	1100	Not Detected
2-Propanol	470	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	370	Not Detected
3-Chloropropene	470	Not Detected	1500	Not Detected
Methylene Chloride	120	Not Detected	410	Not Detected
Methyl tert-butyl ether	120	Not Detected	420	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Hexane	120	2900	420	10000
1,1-Dichloroethane	120	Not Detected	480	Not Detected
2-Butanone (Methyl Ethyl Ketone)	470	Not Detected	1400	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Tetrahydrofuran	120	Not Detected	350	Not Detected
Chloroform	120	Not Detected	580	Not Detected
1,1,1-Trichloroethane	120	Not Detected	640	Not Detected
Cyclohexane	120	640	410	2200
Carbon Tetrachloride	120	Not Detected	740	Not Detected
2,2,4-Trimethylpentane	120	2300	550	11000
Benzene	120	440	380	1400
1,2-Dichloroethane	120	Not Detected	480	Not Detected
Heptane	120	540	480	2200
Trichloroethene	120	Not Detected	630	Not Detected
1,2-Dichloropropane	120	Not Detected	540	Not Detected
1,4-Dioxane	470	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	790	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	540	Not Detected
4-Methyl-2-pentanone	120	Not Detected	480	Not Detected
Toluene	120	110 J	440	400 J
trans-1,3-Dichloropropene	120	Not Detected	540	Not Detected
1,1,2-Trichloroethane	120	Not Detected	640	Not Detected
Tetrachloroethene	120	Not Detected	800	Not Detected
2-Hexanone	470	Not Detected	1900	Not Detected

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Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14101219**	**Date of Collection:**	**9/28/12 9:00:00 AM**
Dil. Factor:	**23.6**	**Date of Analysis:**	**10/12/12 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	910	Not Detected
Chlorobenzene	120	Not Detected	540	Not Detected
Ethyl Benzene	120	Not Detected	510	Not Detected
m,p-Xylene	120	36 J	510	150 J
o-Xylene	120	Not Detected	510	Not Detected
Styrene	120	Not Detected	500	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	580	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	810	Not Detected
Propylbenzene	120	Not Detected	580	Not Detected
4-Ethyltoluene	120	Not Detected	580	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	580	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	580	Not Detected
1,3-Dichlorobenzene	120	Not Detected	710	Not Detected
1,4-Dichlorobenzene	120	Not Detected	710	Not Detected
alpha-Chlorotoluene	120	Not Detected	610	Not Detected
1,2-Dichlorobenzene	120	Not Detected	710	Not Detected
1,2,4-Trichlorobenzene	470	Not Detected	3500	Not Detected
Hexachlorobutadiene	470	Not Detected	5000	Not Detected
Butane	470	9300	1100	22000
Isopentane	470	15000	1400	43000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210194A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14101205c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:51 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank
Lab ID#: 1210194A-02A
EPA METHOD TO-15 GC/MS

File Name:	**14101205c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:51 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	1.3 J	30	8.0 J
alpha-Chlorotoluene	5.0	1.2 J	26	6.1 J
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	15 J	150	110 J
Hexachlorobutadiene	20	9.0 J	210	96 J
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV
Lab ID#: 1210194A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14101202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 10:42 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	99
Chloromethane	95
Vinyl Chloride	87
1,3-Butadiene	80
Bromomethane	98
Chloroethane	106
Freon 11	102
Ethanol	102
Freon 113	101
1,1-Dichloroethene	103
Acetone	96
2-Propanol	91
Carbon Disulfide	86
3-Chloropropene	88
Methylene Chloride	100
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	95
Hexane	93
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	99
Tetrahydrofuran	94
Chloroform	95
1,1,1-Trichloroethane	94
Cyclohexane	93
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	97
Benzene	95
1,2-Dichloroethane	98
Heptane	92
Trichloroethene	95
1,2-Dichloropropane	98
1,4-Dioxane	93
Bromodichloromethane	97
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	92
Toluene	93
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	98
Tetrachloroethene	100
2-Hexanone	95

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Client Sample ID: CCV
Lab ID#: 1210194A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14101202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 10:42 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	101
Chlorobenzene	98
Ethyl Benzene	93
m,p-Xylene	97
o-Xylene	97
Styrene	100
Bromoform	114
Cumene	100
1,1,2,2-Tetrachloroethane	101
Propylbenzene	102
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	135 Q
Hexachlorobutadiene	132 Q
Butane	78
Isopentane	101

Q = Exceeds Quality Control limits.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS
Lab ID#: 1210194A-04A
EPA METHOD TO-15 GC/MS

File Name:	**14101203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:06 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	109
Chloromethane	105
Vinyl Chloride	97
1,3-Butadiene	87
Bromomethane	114
Chloroethane	117
Freon 11	115
Ethanol	108
Freon 113	113
1,1-Dichloroethene	117
Acetone	107
2-Propanol	101
Carbon Disulfide	123
3-Chloropropene	114
Methylene Chloride	110
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	119
Hexane	102
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	110
Tetrahydrofuran	99
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	102
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	106
Benzene	106
1,2-Dichloroethane	110
Heptane	102
Trichloroethene	107
1,2-Dichloropropane	108
1,4-Dioxane	101
Bromodichloromethane	110
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	102
Toluene	103
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	107
Tetrachloroethene	110
2-Hexanone	100

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Client Sample ID: LCS
Lab ID#: 1210194A-04A
EPA METHOD TO-15 GC/MS

File Name:	**14101203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:06 AM**	

Compound	%Recovery
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	111
Chlorobenzene	107
Ethyl Benzene	104
m,p-Xylene	105
o-Xylene	103
Styrene	107
Bromoform	123
Cumene	110
1,1,2,2-Tetrachloroethane	114
Propylbenzene	110
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	115
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	136 Q
Hexachlorobutadiene	133 Q
Butane	79
Isopentane	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD
Lab ID#: 1210194A-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14101204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:25 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	108
Chloromethane	106
Vinyl Chloride	94
1,3-Butadiene	84
Bromomethane	94
Chloroethane	112
Freon 11	112
Ethanol	104
Freon 113	109
1,1-Dichloroethene	115
Acetone	102
2-Propanol	99
Carbon Disulfide	123
3-Chloropropene	111
Methylene Chloride	108
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	116
Hexane	99
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	108
Tetrahydrofuran	98
Chloroform	104
1,1,1-Trichloroethane	104
Cyclohexane	100
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	104
Benzene	103
1,2-Dichloroethane	108
Heptane	99
Trichloroethene	105
1,2-Dichloropropane	105
1,4-Dioxane	98
Bromodichloromethane	108
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	97
Toluene	100
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	106
Tetrachloroethene	108
2-Hexanone	98

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Client Sample ID: LCSD
Lab ID#: 1210194A-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14101204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:25 AM**	

Compound	%Recovery
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	108
Chlorobenzene	105
Ethyl Benzene	101
m,p-Xylene	105
o-Xylene	103
Styrene	106
Bromoform	123
Cumene	109
1,1,2,2-Tetrachloroethane	110
Propylbenzene	109
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	128
Hexachlorobutadiene	119
Butane	76
Isopentane	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

1210194

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana SVE O&M** **Project # 21562735.00018** Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian P.O. #	INCIDENT # (ENV SERVICES) 9 7 2 1 6 6 4 0 SAP # 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES DATE: 8-Oct-12 PAGE: 1 of 1			

SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 930 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		COC DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis	PHONE NO.: 314-743-4179
Mailing Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		E-MAIL: elizabeth.kunkel@urs.com	CONSULTANT PROJECT NAME#: Roxana SVE O&M
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: dave.palmer@urs.com	SAMPLER NAME(S) (Print): S. Wipfler, M. Currier

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab use only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Conister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1946 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-09282012	9/28/12	900	2131	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/8/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/9/12	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/00 Revision

Custody Seal Intact?
Y N None Temp N/A

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10/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #:
Workorder #: 1210194B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/9/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/2/13

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WORK ORDER #: 1210194B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	Roxana SVE O&M
DATE RECEIVED:	10/09/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-09282012	Modified ASTM D-1945	8.6 "Hg	15 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/26/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1210194B

One 1 Liter Summa Canister sample was received on October 09, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	80
Methane	0.00028	0.037
Carbon Dioxide	0.028	1.2
Ethene	0.0028	0.00010 J
Isobutane	0.0028	0.00015 J
Butane	0.0028	0.0013 J
Isopentane	0.0028	0.0017 J
Pentane	0.0028	0.00064 J
C6+	0.028	0.0039 J

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Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101227**	**Date of Collection:**	**9/28/12 9:00:00 AM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/12/12 06:51 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.037
Carbon Dioxide	0.028	1.2
Ethane	0.0028	Not Detected
Ethene	0.0028	0.00010 J
Acetylene	0.0028	Not Detected
Propane	0.0028	Not Detected
Isobutane	0.0028	0.00015 J
Butane	0.0028	0.0013 J
Neopentane	0.0028	Not Detected
Isopentane	0.0028	0.0017 J
Pentane	0.0028	0.00064 J
C6+	0.028	0.0039 J
Hydrogen	0.028	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.70

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210194B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101210a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 09:18 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.047 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210194B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101205ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 12:16 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210194B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/12 11:02 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	100
Methane	99
Carbon Dioxide	99
Ethane	100
Ethene	97
Acetylene	99
Propane	103
Isobutane	104
Butane	102
Neopentane	103
Isopentane	102
Pentane	102
C6+	104

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210194B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101234**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 09:45 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	101
Ethane	100
Ethene	97
Acetylene	98
Propane	102
Isobutane	103
Butane	102
Neopentane	102
Isopentane	102
Pentane	102
C6+	104

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210194B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101204b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/12 11:54 PM**	

Compound	%Recovery
Hydrogen	108

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210194B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9101235b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 10:07 PM**	

Compound	%Recovery
Hydrogen	105

Container Type: NA - Not Applicable

1210194

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 8-Oct-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LOC DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT MANAGER: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): S. Wipfler M. Curler
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1946 + BTU	Modified TO-3 (Shl)-TPHg		Sample PID (ppm)
01A	EXH-SVE-09282012	9/28/12	900	2131	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/8/12	1700
Relinquished by: (Signature)	Received by: (Signature)	10/9/12	1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/00 Revision

Custody Seal Intact?
Y N None Temp N/A

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10/22/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #:
Workorder #: 1210194C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/9/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/2/13

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WORK ORDER #: 1210194C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	Roxana SVE O&M
DATE RECEIVED:	10/09/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/22/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-09282012	Modified TO-3	8.6 "Hg	15 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/22/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1210194C

One 1 Liter Summa Canister sample was received on October 09, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	2.8	12	170	680

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Client Sample ID: EXH-SVE-09282012

Lab ID#: 1210194C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101212**	**Date of Collection: 9/28/12 9:00:00 AM**	
Dil. Factor:	**113**	**Date of Analysis: 10/12/12 08:43 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	2.8	12	170	680

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1210194C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101211a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 08:07 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.012 J	0.051 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150

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Client Sample ID: LCS

Lab ID#: 1210194C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/12/12 11:58 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	115

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	93	75-150

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Client Sample ID: LCSD

Lab ID#: 1210194C-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101218**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/12 12:23 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	107

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	102	75-150

1210194

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana SVE O&M** **Project # 21562735.00018** Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO #:	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 8-Oct-12 PAGE: 1 of 1
SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA	State: IL GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		LCF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis	PHONE NO.: 314-743-4179 E-MAIL: elizabeth.kunkel@urs.com CONSULTANT PROJECT NUMBER: Roxana SVE O&M
Invoice to Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		SAMPLER NAME(S) (Print): S. Wipfler, M. Currier	
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: dave.palmer@urs.com	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-09282012	9/28/12	900	2131	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/8/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/9/12	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/00 Revision

Custody Seal Intact?
Y N None Temp N/A

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210247A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-13-5-100912	VMP-13-10.5-100912
VMP-13-10.5-100912-Dup	VMP-13-21.5-100912
VMP-14-5-101012	VMP-14-11.5-101012
VMP-17-5-100912	VMP-18-8.5-100912
VMP-19-5-100912	VMP-24-5-100912
VMP-24-10-100912	VMP-24-22-100912
VMP-24-34-100912	VMP-29-10-100812
VMP-29-20-100812	VMP-29-30-100812
VMP-30-10-100812	VMP-30-20-100812
VMP-30-30-100812	VMP-41-10-100912
VMP-41-20-100912	VMP-41-20-100912-Dup
VMP-41-30-100912	VMP-7-5-101012
VMP-7-13.5-101012	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes, however analysis of sample VMP-24-5-100912 was cancelled due to a greater than 5.0" Hg difference between reported vacuum on the COC and laboratory measured canister receipt vacuum. Well VMP-24-5 was resampled on October 19, 2012, and results were reported in SDG 1210574A,B.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples VMP-29-20-100812 and VMP-30-10-100812 were diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Samples VMP-29-10-100812, VMP-29-20-100812, VMP-29-30-100812, VMP-30-10-100812, VMP-30-20-100812, and VMP-30-30-100812 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. The difference in ethanol results for the field duplicate pair VMP-13-10.5-100912/VMP-13-10.5-100912-Dup was greater than two times (2X) the reporting level; therefore, results were qualified as estimated. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210247A-26A	TO-15	trans-1,3-Dichloropropene	0.083 ppbv / 0.38 µg/m^3
1210247A-26A	TO-15	m,p-Xylenes	0.11 ppbv / 0.48 µg/m^3
1210247A-26A	TO-15	o-Xylene	0.15 ppbv / 0.67 µg/m^3
1210247A-26A	TO-15	Cumene	0.15 ppbv / 0.76 µg/m^3
1210247A-26A	TO-15	Propylbenzene	0.13 ppbv / 0.64 µg/m^3
1210247A-26A	TO-15	1,3,5-Trimethylbenzene	0.21 ppbv / 1.0 µg/m^3
1210247A-26A	TO-15	1,2,4-Trimethylbenzene	0.23 ppbv / 1.1 µg/m^3
1210247A-26A	TO-15	1,3-Dichlorobenzene	0.11 ppbv / 0.66 µg/m^3
1210247A-26A	TO-15	1,4-Dichlorobenzene	0.11 ppbv / 0.69 µg/m^3
1210247A-26A	TO-15	1,2,4-Trichlorobenzene	0.32 ppbv / 2.4 µg/m^3
1210247A-26A	TO-15	Hexachlorobutadiene	0.33 ppbv / 3.5 µg/m^3
1210247A-26B	TO-15	Methylene chloride	0.11 ppbv / 0.38 µg/m^3
1210247A-26B	TO-15	trans-1,3-Dichloropropene	0.12 ppbv / 0.53 µg/m^3
1210247A-26B	TO-15	Cumene	0.17 ppbv / 0.82 µg/m^3
1210247A-26B	TO-15	Propylbenzene	0.14 ppbv / 0.70 µg/m^3
1210247A-26B	TO-15	4-Ethyltoluene	0.14 ppbv / 0.68 µg/m^3
1210247A-26B	TO-15	1,3,5-Trimethylbenzene	0.24 ppbv / 1.2 µg/m^3
1210247A-26B	TO-15	1,2,4-Trimethylbenzene	0.18 ppbv / 0.88 µg/m^3
1210247A-26B	TO-15	1,3-Dichlorobenzene	0.086 ppbv / 0.52 µg/m^3
1210247A-26B	TO-15	1,4-Dichlorobenzene	0.12 ppbv / 0.73 µg/m^3
1210247A-26B	TO-15	alpha-Chlorotoluene	0.060 ppbv / 0.31 µg/m^3
1210247A-26B	TO-15	1,2-Dichlorobenzene	0.13 ppbv / 0.81 µg/m^3
1210247A-26B	TO-15	1,2,4-Trichlorobenzene	0.33 ppbv / 2.4 µg/m^3
1210247A-26B	TO-15	Hexachlorobutadiene	0.41 ppbv / 4.4 µg/m^3
1210247B-26B	Natural gases	Helium	0.013%

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-13-5-100912	TO-15	trans-1,3-Dichloropropene	-	**U**
VMP-13-5-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-13-10.5-100912	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-14-5-101012	TO-15	m,p-Xylene	-	**U**
VMP-17-5-100912	TO-15	o-Xylene	-	**U**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-17-5-100912	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-17-5-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-18-8.5-100912	TO-15	m,p-Xylene	-	**U**
VMP-18-8.5-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-19-5-100912	TO-15	Trans-1,3-Dichloropropene	-	**U**
VMP-19-5-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-24-10-100912	TO-15	m,p-Xylene	-	**U**
VMP-24-10-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-30-10-100812	TO-15	m,p-Xylene	-	**U**
VMP-41-20-100912-Dup	TO-15	Methylene chloride	-	**U**
VMP-41-20-100912-Dup	TO-15	trans-1,3-Dichloropropene	-	**U**
VMP-41-20-100912-Dup	TO-15	Propylbenzene	-	**U**
VMP-41-20-100912-Dup	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-41-20-100912-Dup	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-41-20-100912-Dup	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-41-20-100912-Dup	TO-15	Hexachlorobutadiene	-	**U**
VMP-41-30-100912	TO-15	Methylene chloride	-	**U**
VMP-41-30-100912	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-41-30-100912	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-13-10.5-100912	Natural gases	Helium	-	**U**
VMP-13-21.5-100912	Natural gases	Helium	-	**U**
VMP-14-11.5-101012	Natural gases	Helium	-	**U**
VMP-18-8.5-100912	Natural gases	Helium	-	**U**
VMP-19-5-100912	Natural gases	Helium	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-13-10.5-100912	VMP-13-10.5-100912-Dup
VMP-41-20-100912	VMP-41-20-100912-Dup

Were field duplicate sample RPDs within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-13-10.5-100912	VMP-13-10.5-100912-Dup	TO-15	Ethanol	**>2X RL**	**J/UJ**

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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10/25/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210247A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/11/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed
on
11/5/2012

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WORK ORDER #: 1210247A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/11/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-13-5-100912	Modified TO-15	9.0 "Hg	15 psi
02A	VMP13-10.5-100912	Modified TO-15	5.5 "Hg	15 psi
03A	VMP-13-10.5-100912-DUP	Modified TO-15	9.5 "Hg	15 psi
04A	VMP-13-21.5-100912	Modified TO-15	10.0 "Hg	15 psi
05A	VMP-14-5-101012	Modified TO-15	9.0 "Hg	15 psi
06A	VMP-14-11.5-101012	Modified TO-15	8.0 "Hg	15 psi
07A	VMP-17-5-100912	Modified TO-15	10.0 "Hg	15 psi
08A	VMP-18-8.5-100912	Modified TO-15	7.0 "Hg	15 psi
09A	VMP-19-5-100912	Modified TO-15	9.5 "Hg	15 psi
10A(cancelled)	VMP-24-5-100912	Modified TO-15	3.5 "Hg	15 psi
11A	VMP-24-10-100912	Modified TO-15	7.0 "Hg	15 psi
12A	VMP-24-22-100912	Modified TO-15	7.5 "Hg	15 psi
13A	VMP-24-34-100912	Modified TO-15	8.0 "Hg	15 psi
14A	VMP-29-10-100812	Modified TO-15	8.5 "Hg	15 psi
15A	VMP-29-20-100812	Modified TO-15	8.5 "Hg	15 psi
15B	VMP-29-20-100812	Modified TO-15	8.5 "Hg	15 psi
16A	VMP-29-30-100812	Modified TO-15	9.5 "Hg	15 psi
17A	VMP-30-10-100812	Modified TO-15	8.5 "Hg	15 psi
17B	VMP-30-10-100812	Modified TO-15	8.5 "Hg	15 psi
18A	VMP-30-20-100812	Modified TO-15	9.0 "Hg	15 psi
19A	VMP-30-30-100812	Modified TO-15	9.0 "Hg	15 psi
20A	VMP-41-10-100912	Modified TO-15	9.5 "Hg	15 psi
21A	VMP-41-20-100912	Modified TO-15	9.0 "Hg	15 psi

Continued on next page

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WORK ORDER #: 1210247A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/11/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
22A	VMP-41-20-100912-DUP	Modified TO-15	9.5 "Hg	15 psi
23A	VMP-41-30-100912	Modified TO-15	10.5 "Hg	15 psi
24A	VMP-7-5-101012	Modified TO-15	9.5 "Hg	15 psi
25A	VMP-7-13.5-101012	Modified TO-15	8.0 "Hg	15 psi
26A	Lab Blank	Modified TO-15	NA	NA
26B	Lab Blank	Modified TO-15	NA	NA
27A	CCV	Modified TO-15	NA	NA
27B	CCV	Modified TO-15	NA	NA
28A	LCS	Modified TO-15	NA	NA
28AA	LCSD	Modified TO-15	NA	NA
28B	LCS	Modified TO-15	NA	NA
28BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/25/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210247A

Twenty-five 1 Liter Summa Canister samples were received on October 11, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There was a significant difference (greater than 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) for sample VMP-24-5-100912. A leak test indicated that the valve was functioning properly.

Sample VMP-24-5-100912 was cancelled on 10/15/12 per client's request.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to high-level target compounds, samples VMP-29-20-100812 and VMP-30-10-100812 were analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Dilution was performed on samples VMP-29-10-100812, VMP-29-20-100812, VMP-29-30-100812, VMP-30-10-100812, VMP-30-20-100812, and VMP-30-30-100812 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-13-5-100912

Lab ID#: 1210247A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.1	2.5 J
Freon 11	1.4	0.27 J	8.1	1.5 J
Acetone	14	9.8 J	34	23 J
Methylene Chloride	14	0.80 J	50	2.8 J
Hexane	1.4	2.0	5.1	6.9
2-Butanone (Methyl Ethyl Ketone)	5.8	1.9 J	17	5.5 J
Cyclohexane	1.4	0.41 J	5.0	1.4 J
2,2,4-Trimethylpentane	1.4	9.2	6.8	43
Benzene	1.4	5.3	4.6	17
Heptane	1.4	0.92 J	5.9	3.8 J
trans-1,3-Dichloropropene	1.4	~~0.20 J~~ U	6.6	~~0.92 J~~ U
1,4-Dichlorobenzene	1.4	~~0.12 J~~ U	8.7	~~0.70 J~~ U
Isopentane	5.8	3.1 J	17	9.2 J

Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.50 J	6.1	2.4 J
Freon 11	1.2	0.29 J	6.9	1.6 J
Ethanol	4.9	12 J	9.3	22 J
Acetone	12	10 J	29	24 J
2-Propanol	4.9	5.4	12	13
Methylene Chloride	12	0.62 J	43	2.2 J
Hexane	1.2	0.85 J	4.4	3.0 J
2-Butanone (Methyl Ethyl Ketone)	4.9	1.2 J	14	3.6 J
Cyclohexane	1.2	0.88 J	4.2	3.0 J
2,2,4-Trimethylpentane	1.2	0.48 J	5.8	2.2 J
Benzene	1.2	7.9	3.9	25
Heptane	1.2	0.34 J	5.1	1.4 J
Toluene	1.2	2.3	4.6	8.7
m,p-Xylene	1.2	1.9	5.4	8.4
o-Xylene	1.2	0.91 J	5.4	3.9 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247A-02A

4-Ethyltoluene	1.2	0.63 J	6.1	3.1 J
1,2,4-Trimethylbenzene	1.2	~~0.76 J~~ U1	6.1	~~3.7 J~~ U1
Isopentane	4.9	2.2 J	14	6.6 J

Client Sample ID: VMP-13-10.5-100912-DUP

Lab ID#: 1210247A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.40 J	7.3	2.0 J
Freon 11	1.5	0.26 J	8.3	1.4 J
Acetone	15	4.7 J	35	11 J
Methylene Chloride	15	1.2 J	51	4.3 J
2,2,4-Trimethylpentane	1.5	0.26 J	6.9	1.2 J
Benzene	1.5	7.2	4.7	23
Toluene	1.5	0.24 J	5.6	0.89 J

Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.51 J	7.5	2.5 J
Acetone	15	5.2 J	36	12 J
Carbon Disulfide	6.1	1.5 J	19	4.7 J
Methylene Chloride	15	0.33 J	53	1.2 J
Methyl tert-butyl ether	1.5	2.6	5.5	9.2
Hexane	1.5	0.74 J	5.3	2.6 J
Cyclohexane	1.5	0.81 J	5.2	2.8 J
2,2,4-Trimethylpentane	1.5	64	7.1	300
Benzene	1.5	27	4.8	88
1,4-Dioxane	6.1	3.0 J	22	11 J
Toluene	1.5	0.30 J	5.7	1.2 J
Butane	6.1	100	14	240
Isopentane	6.1	75	18	220

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-14-5-101012

Lab ID#: 1210247A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.49 J	7.1	2.4 J
Ethanol	5.8	13	11	24
Acetone	14	5.2 J	34	12 J
2-Propanol	5.8	3.6 J	14	8.9 J
Methylene Chloride	14	0.94 J	50	3.3 J
2-Butanone (Methyl Ethyl Ketone)	5.8	1.3 J	17	3.8 J
2,2,4-Trimethylpentane	1.4	4.0	6.8	18
Benzene	1.4	7.9	4.6	25
4-Methyl-2-pentanone	1.4	9.0	5.9	37
Toluene	1.4	2.0	5.4	7.8
Tetrachloroethene	1.4	0.60 J	9.8	4.0 J
m,p-Xylene	1.4	~~0.31 J~~ U	6.3	~~1.4 J~~ U
Cumene	1.4	1.2 J	7.1	6.1 J

Client Sample ID: VMP-14-11.5-101012

Lab ID#: 1210247A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Ethanol	5.5	11	10	21
Acetone	14	10 J	33	24 J
2-Propanol	5.5	4.8 J	14	12 J
Carbon Disulfide	5.5	2.6 J	17	8.0 J
Methylene Chloride	14	1.5 J	48	5.2 J
Hexane	1.4	2.8	4.9	9.7
Cyclohexane	1.4	0.85 J	4.8	2.9 J
2,2,4-Trimethylpentane	1.4	2.9	6.4	14
Benzene	1.4	1.2 J	4.4	3.9 J
Toluene	1.4	0.72 J	5.2	2.7 J
Butane	5.5	7.7	13	18
Isopentane	5.5	32	16	94

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-17-5-100912

Lab ID#: 1210247A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.43 J	7.5	2.1 J
Ethanol	6.1	2.8 J	11	5.2 J
Acetone	15	26	36	62
2-Propanol	6.1	2.0 J	15	4.9 J
Methylene Chloride	15	0.66 J	53	2.3 J
2-Butanone (Methyl Ethyl Ketone)	6.1	1.9 J	18	5.5 J
2,2,4-Trimethylpentane	1.5	5.3	7.1	25
Benzene	1.5	1.3 J	4.8	4.3 J
Toluene	1.5	0.29 J	5.7	1.1 J
m,p-Xylene	1.5	1.3 J	6.6	5.8 J
o-Xylene	1.5	~~0.60 J~~ 4	6.6	~~2.6 J~~ 4
4-Ethyltoluene	1.5	0.92 J	7.4	4.5 J
1,2,4-Trimethylbenzene	1.5	~~1.1 J~~ 4	7.4	~~5.2 J~~ 4
1,4-Dichlorobenzene	1.5	~~0.12 J~~ 4	9.1	~~0.74 J~~ 4

Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.49 J	6.5	2.4 J
Freon 11	1.3	0.23 J	7.4	1.3 J
Ethanol	5.3	12	9.9	22
Acetone	13	43	31	100
2-Propanol	5.3	15	13	38
Methylene Chloride	13	3.9 J	46	14 J
Hexane	1.3	0.58 J	4.6	2.0 J
2-Butanone (Methyl Ethyl Ketone)	5.3	4.5 J	16	13 J
2,2,4-Trimethylpentane	1.3	4.4	6.2	21
Benzene	1.3	2.0	4.2	6.4
Heptane	1.3	0.65 J	5.4	2.7 J
Toluene	1.3	1.2 J	5.0	4.5 J
m,p-Xylene	1.3	~~0.33 J~~ 4	5.7	~~1.4 J~~ 4
1,4-Dichlorobenzene	1.3	~~0.13 J~~ 4	7.9	~~0.79 J~~ 4

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247A-08A

Isopentane	5.3	1.9 J	16	5.6 J

Client Sample ID: VMP-19-5-100912

Lab ID#: 1210247A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.56 J	7.3	2.8 J
Acetone	15	13 J	35	32 J
2-Propanol	5.9	34	14	85
Carbon Disulfide	5.9	0.90 J	18	2.8 J
Methylene Chloride	15	0.84 J	51	2.9 J
Hexane	1.5	0.28 J	5.2	0.97 J
2,2,4-Trimethylpentane	1.5	3.5	6.9	16
Benzene	1.5	1.0 J	4.7	3.3 J
trans-1,3-Dichloropropene	1.5	~~0.36 J~~ 4	6.7	~~1.6 J~~ 4
1,4-Dichlorobenzene	1.5	~~0.14 J~~ 4	8.9	~~0.83 J~~ 4

Client Sample ID: VMP-24-10-100912

Lab ID#: 1210247A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.52 J	6.5	2.6 J
Freon 11	1.3	0.26 J	7.4	1.4 J
Ethanol	5.3	19	9.9	36
Acetone	13	6.6 J	31	16 J
2-Propanol	5.3	30	13	74
Methylene Chloride	13	0.80 J	46	2.8 J
Hexane	1.3	0.28 J	4.6	0.99 J
2,2,4-Trimethylpentane	1.3	0.46 J	6.2	2.1 J
Benzene	1.3	0.31 J	4.2	0.99 J
Toluene	1.3	1.1 J	5.0	4.2 J
m,p-Xylene	1.3	~~0.42 J~~ 4	5.7	~~1.8 J~~ 4
1,4-Dichlorobenzene	1.3	~~0.15 J~~ 4	7.9	~~0.92 J~~ 4
Isopentane	5.3	2.4 J	16	7.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.6	2.7 J
Freon 11	1.3	0.27 J	7.6	1.5 J
Acetone	13	5.9 J	32	14 J
2-Propanol	5.4	21	13	51
Methylene Chloride	13	0.70 J	47	2.4 J
Hexane	1.3	0.33 J	4.7	1.1 J
2,2,4-Trimethylpentane	1.3	0.72 J	6.3	3.4 J
Benzene	1.3	0.42 J	4.3	1.3 J

Client Sample ID: VMP-24-34-100912

Lab ID#: 1210247A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.48 J	6.8	2.4 J
Freon 11	1.4	0.30 J	7.8	1.7 J
Ethanol	5.5	3.1 J	10	5.9 J
Acetone	14	6.4 J	33	15 J
2-Propanol	5.5	28	14	70
Methylene Chloride	14	0.49 J	48	1.7 J
Hexane	1.4	0.96 J	4.9	3.4 J
Cyclohexane	1.4	0.53 J	4.8	1.8 J
2,2,4-Trimethylpentane	1.4	9.0	6.4	42
Benzene	1.4	2.1	4.4	6.7
Heptane	1.4	0.72 J	5.6	3.0 J
Toluene	1.4	0.49 J	5.2	1.9 J
Isopentane	5.5	4.4 J	16	13 J

Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	190	3600	450	8400
2-Propanol	75	19 J	180	47 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247A-14A

Carbon Disulfide	75	49 J	230	150 J
2-Butanone (Methyl Ethyl Ketone)	75	7400	220	22000
Tetrahydrofuran	19	4800	55	14000
Benzene	19	150	60	470
4-Methyl-2-pentanone	19	14 J	77	59 J
Toluene	19	4.3 J	71	16 J

Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247A-15A DF = 37.6 X

* Use these results only. All other data was reported from the 37.6X dilution analysis.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	170	61 J	320	120 J
Acetone	420	8000	1000	19000
2-Propanol	170	72 J	420	180 J
Carbon Disulfide	170	120 J	530	380 J
Methylene Chloride	420	28 J	1500	99 J
Hexane	42	11 J	150	37 J
* 2-Butanone (Methyl Ethyl Ketone)	170	10000	500	31000
Tetrahydrofuran	42	5300	120	16000
Benzene	42	31 J	140	99 J
4-Methyl-2-pentanone	42	22 J	170	89 J
Toluene	42	32 J	160	120 J
Isopentane	170	72 J	500	210 J

Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247A-15B DF = 37.6 X

* Do not use this data. Use all other data.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	75	41 J	140	77 J
Acetone	190	6200	450	15000
2-Propanol	75	40 J	180	97 J
Carbon Disulfide	75	73 J	230	230 J
(*) 2-Butanone (Methyl Ethyl Ketone)	75	14000 E	220	40000 E
Tetrahydrofuran	19	6900	55	20000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247A-15B

Benzene	19	38	60	120
4-Methyl-2-pentanone	19	23	77	93
Toluene	19	6.2 J	71	23 J

Client Sample ID: VMP-29-30-100812

Lab ID#: 1210247A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	920	23000	2200	54000
2-Propanol	370	220 J	910	550 J
Carbon Disulfide	370	490	1200	1500
Methylene Chloride	920	98 J	3200	340 J
Hexane	92	30 J	330	100 J
2-Butanone (Methyl Ethyl Ketone)	370	24000	1100	72000
Tetrahydrofuran	92	16000	270	47000
Benzene	92	34 J	300	110 J
Toluene	92	150	350	550
Styrene	92	28 J	390	120 J
1,4-Dichlorobenzene	92	9.8 J	560	59 J
Isopentane	370	160 J	1100	460 J

Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247A-17A DF = 5.64

* Use these results only. All other data was reported from the 2.82 X dilution analysis.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	11	10 J	21	19 J
Acetone	28	380	67	900
2-Propanol	11	7.8 J	28	19 J
Carbon Disulfide	11	6.6 J	35	21 J
Methylene Chloride	28	0.46 J	98	1.6 J
* 2-Butanone (Methyl Ethyl Ketone)	11	780	33	2300
Tetrahydrofuran	2.8	540	8.3	1600
2,2,4-Trimethylpentane	2.8	7.6	13	36
Benzene	2.8	4.9	9.0	16

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247A-17A

4-Methyl-2-pentanone	2.8	11	12	44
Toluene	2.8	2.1 J	11	7.9 J
Tetrachloroethene	2.8	0.66 J	19	4.5 J
Cumene	2.8	1.5 J	14	7.2 J
Isopentane	11	5.4 J	33	16 J

Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247A-17B DF = 2.82

(*) Do not use this data. Use all other data.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.0	2.2 J
Ethanol	5.6	12	11	22
Acetone	14	360	33	870
2-Propanol	5.6	7.9	14	19
Carbon Disulfide	5.6	6.4	18	20
Methylene Chloride	14	0.58 J	49	2.0 J
Hexane	1.4	0.28 J	5.0	0.99 J
(*) ~~2-Butanone (Methyl Ethyl Ketone)~~	~~5.6~~	~~770 E~~	~~17~~	~~2300 E~~
Tetrahydrofuran	1.4	530	4.2	1600
Cyclohexane	1.4	0.38 J	4.8	1.3 J
2,2,4-Trimethylpentane	1.4	7.8	6.6	36
Benzene	1.4	5.0	4.5	16
Heptane	1.4	0.69 J	5.8	2.8 J
4-Methyl-2-pentanone	1.4	12	5.8	51
Toluene	1.4	2.5	5.3	9.6
Tetrachloroethene	1.4	0.60 J	9.6	4.1 J
m,p-Xylene	1.4	~~0.43 J~~ u	6.1	~~1.8 J~~ u
Cumene	1.4	1.6	6.9	7.8
Isopentane	5.6	4.8 J	17	14 J

Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	230	130 J	440	250 J
Acetone	580	19000	1400	44000
2-Propanol	230	110 J	570	260 J
Carbon Disulfide	230	370	720	1100
Methylene Chloride	580	72 J	2000	250 J
2-Butanone (Methyl Ethyl Ketone)	230	15000	680	45000
Tetrahydrofuran	58	9800	170	29000
Benzene	58	110	180	350
Toluene	58	100	220	390
Styrene	58	29 J	250	120 J
1,4-Dichlorobenzene	58	5.6 J	350	34 J
Isopentane	230	61 J	680	180 J

Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247A-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1200	32000	2900	75000
2-Propanol	480	190 J	1200	460 J
Carbon Disulfide	480	380 J	1500	1200 J
Methylene Chloride	1200	81 J	4200	280 J
Hexane	120	30 J	420	110 J
2-Butanone (Methyl Ethyl Ketone)	480	35000	1400	100000
Tetrahydrofuran	120	23000	360	67000
2,2,4-Trimethylpentane	120	21 J	560	100 J
Benzene	120	1700	380	5400
Toluene	120	130	450	490
Styrene	120	22 J	510	93 J
Butane	480	200 J	1100	490 J
Isopentane	480	350 J	1400	1000 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-41-10-100912

Lab ID#: 1210247A-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.65 J	7.3	3.2 J
Ethanol	5.9	19	11	35
Acetone	15	8.5 J	35	20 J
2-Propanol	5.9	14	14	35
Methylene Chloride	15	0.67 J	51	2.3 J
2-Butanone (Methyl Ethyl Ketone)	5.9	4.2 J	17	12 J
2,2,4-Trimethylpentane	1.5	0.19 J	6.9	0.89 J
Benzene	1.5	10	4.7	34
Heptane	1.5	0.62 J	6.1	2.5 J
4-Methyl-2-pentanone	1.5	25	6.1	100
Toluene	1.5	5.9	5.6	22
Tetrachloroethene	1.5	1.7	10	12
m,p-Xylene	1.5	0.87 J	6.4	3.8 J
Cumene	1.5	4.2	7.3	21

Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247A-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	7.1	2.6 J
Chloromethane	14	3.8 J	30	7.9 J
Ethanol	5.8	17	11	31
Acetone	14	23	34	55
2-Propanol	5.8	8.2	14	20
Methylene Chloride	14	1.2 J	50	4.2 J
Hexane	1.4	0.30 J	5.1	1.0 J
2-Butanone (Methyl Ethyl Ketone)	5.8	3.9 J	17	12 J
Benzene	1.4	8.4	4.6	27
Heptane	1.4	0.59 J	5.9	2.4 J
4-Methyl-2-pentanone	1.4	19	5.9	79
Toluene	1.4	4.0	5.4	15
Tetrachloroethene	1.4	1.3 J	9.8	9.1 J
2-Hexanone	5.8	0.34 J	24	1.4 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247A-21A

m,p-Xylene	1.4	0.86 J	6.3	3.7 J
Styrene	1.4	0.22 J	6.2	0.92 J
Cumene	1.4	3.9	7.1	19

Client Sample ID: VMP-41-20-100912-DUP

Lab ID#: 1210247A-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.57 J	7.3	2.8 J
Ethanol	5.9	17	11	32
Acetone	15	10 J	35	24 J
2-Propanol	5.9	7.8	14	19
Methylene Chloride	15	~~0.47 J~~ U	51	~~1.6 J~~ U
2-Butanone (Methyl Ethyl Ketone)	5.9	3.1 J	17	9.0 J
Benzene	1.5	8.5	4.7	27
Heptane	1.5	0.50 J	6.1	2.0 J
4-Methyl-2-pentanone	1.5	20	6.1	84
Toluene	1.5	4.2	5.6	16
trans-1,3-Dichloropropene	1.5	~~0.24 J~~ U	6.7	~~1.1 J~~ U
Tetrachloroethene	1.5	1.1 J	10	7.3 J
m,p-Xylene	1.5	0.81 J	6.4	3.5 J
Styrene	1.5	0.30 J	6.3	1.3 J
Cumene	1.5	4.2	7.3	21
Propylbenzene	1.5	~~0.30 J~~ U	7.3	~~1.5 J~~ U
1,2,4-Trimethylbenzene	1.5	~~0.64 J~~ U	7.3	~~3.2 J~~ U
1,3-Dichlorobenzene	1.5	~~0.25 J~~ U	8.9	~~1.5 J~~ U
1,4-Dichlorobenzene	1.5	~~0.23 J~~ U	8.9	~~1.4 J~~ U
Hexachlorobutadiene	5.9	~~0.58 J~~ U	63	~~6.2 J~~ U

Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247A-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.63 J	7.7	3.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247A-23A

Ethanol	6.2	13	12	24
Acetone	16	8.0 J	37	19 J
2-Propanol	6.2	3.8 J	15	9.3 J
Methylene Chloride	16	~~0.53 J~~ U	54	~~1.8 J~~ U
Hexane	1.6	0.38 J	5.5	1.3 J
2-Butanone (Methyl Ethyl Ketone)	6.2	2.7 J	18	8.0 J
2,2,4-Trimethylpentane	1.6	0.82 J	7.3	3.8 J
Benzene	1.6	13	5.0	41
Heptane	1.6	0.57 J	6.4	2.4 J
4-Methyl-2-pentanone	1.6	9.9	6.4	41
Toluene	1.6	2.6	5.8	9.8
Tetrachloroethene	1.6	0.68 J	10	4.6 J
m,p-Xylene	1.6	0.43 J	6.8	1.8 J
Cumene	1.6	2.6	7.6	13
1,2,4-Trimethylbenzene	1.6	~~0.45 J~~ U	7.6	~~2.2 J~~ U
1,4-Dichlorobenzene	1.6	~~0.14 J~~ U	9.3	~~0.85 J~~ U

Client Sample ID: VMP-7-5-101012

Lab ID#: 1210247A-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.3	2.6 J
Freon 11	1.5	0.25 J	8.3	1.4 J
Ethanol	5.9	2.1 J	11	4.0 J
Acetone	15	15	35	37
Carbon Disulfide	5.9	1.1 J	18	3.4 J
Methylene Chloride	15	0.97 J	51	3.4 J
Hexane	1.5	0.33 J	5.2	1.2 J
2,2,4-Trimethylpentane	1.5	0.70 J	6.9	3.3 J
Benzene	1.5	0.75 J	4.7	2.4 J
Toluene	1.5	0.28 J	5.6	1.1 J

Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247A-25A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247A-25A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	6.8	2.6 J
Freon 11	1.4	0.24 J	7.8	1.4 J
Ethanol	5.5	6.0	10	11
Acetone	14	28	33	65
Carbon Disulfide	5.5	1.3 J	17	4.2 J
Methylene Chloride	14	1.2 J	48	4.1 J
Hexane	1.4	0.99 J	4.9	3.5 J
2-Butanone (Methyl Ethyl Ketone)	5.5	2.2 J	16	6.6 J
2,2,4-Trimethylpentane	1.4	2.4	6.4	11
Benzene	1.4	1.8	4.4	5.8
Heptane	1.4	0.66 J	5.6	2.7 J
Toluene	1.4	0.30 J	5.2	1.1 J
Isopentane	5.5	1.1 J	16	3.3 J

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Client Sample ID: VMP-13-5-100912

Lab ID#: 1210247A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101810**	**Date of Collection:**	**10/9/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 01:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.1	2.5 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.27 J	8.1	1.5 J
Ethanol	5.8	Not Detected	11	Not Detected
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	9.8 J	34	23 J
2-Propanol	5.8	Not Detected	14	Not Detected
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.80 J	50	2.8 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	2.0	5.1	6.9
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	1.9 J	17	5.5 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.41 J	5.0	1.4 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	9.2	6.8	43
Benzene	1.4	5.3	4.6	17
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.92 J	5.9	3.8 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	Not Detected	5.4	Not Detected
trans-1,3-Dichloropropene	1.4	~~0.20 J~~ U	6.6	~~0.92 J~~ U
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-13-5-100912

Lab ID#: 1210247A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101810**	**Date of Collection:**	**10/9/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 01:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	~~0.12 J~~ U	8.7	~~0.70 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	3.1 J	17	9.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101811**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**10/18/12 02:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.50 J	6.1	2.4 J
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	0.29 J	6.9	1.6 J
Ethanol	4.9	12 J	9.3	22 J
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	10 J	29	24 J
2-Propanol	4.9	5.4	12	13
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	0.62 J	43	2.2 J
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	0.85 J	4.4	3.0 J
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	1.2 J	14	3.6 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	0.88 J	4.2	3.0 J
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	0.48 J	5.8	2.2 J
Benzene	1.2	7.9	3.9	25
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	0.34 J	5.1	1.4 J
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	2.3	4.6	8.7
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected

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Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101811**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**10/18/12 02:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	1.9	5.4	8.4
o-Xylene	1.2	0.91 J	5.4	3.9 J
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	0.63 J	6.1	3.1 J
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	~~0.76 J~~ U	6.1	~~3.7 J~~ U
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
Butane	4.9	Not Detected	12	Not Detected
Isopentane	4.9	2.2 J	14	6.6 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-13-10.5-100912-DUP

Lab ID#: 1210247A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101812**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/18/12 02:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.40 J	7.3	2.0 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.26 J	8.3	1.4 J
Ethanol	5.9	Not Detected UJ	11	Not Detected UJ
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	4.7 J	35	11 J
2-Propanol	5.9	Not Detected	14	Not Detected
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	1.2 J	51	4.3 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	Not Detected	5.2	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	0.26 J	6.9	1.2 J
Benzene	1.5	7.2	4.7	23
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	0.24 J	5.6	0.89 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-13-10.5-100912-DUP

Lab ID#: 1210247A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101812**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/18/12 02:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101813**	**Date of Collection:**	**10/9/12 11:10:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/18/12 02:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.51 J	7.5	2.5 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	Not Detected	11	Not Detected
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	5.2 J	36	12 J
2-Propanol	6.1	Not Detected	15	Not Detected
Carbon Disulfide	6.1	1.5 J	19	4.7 J
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	0.33 J	53	1.2 J
Methyl tert-butyl ether	1.5	2.6	5.5	9.2
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	0.74 J	5.3	2.6 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	0.81 J	5.2	2.8 J
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	64	7.1	300
Benzene	1.5	27	4.8	88
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	Not Detected	6.2	Not Detected
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	3.0 J	22	11 J
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	0.30 J	5.7	1.2 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101813**	**Date of Collection: 10/9/12 11:10:00 AM**	
Dil. Factor:	**3.03**	**Date of Analysis: 10/18/12 02:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	Not Detected	45	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	100	14	240
Isopentane	6.1	75	18	220

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-14-5-101012

Lab ID#: 1210247A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101814**	**Date of Collection:**	**10/10/12 9:17:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 03:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.49 J	7.1	2.4 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	13	11	24
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	5.2 J	34	12 J
2-Propanol	5.8	3.6 J	14	8.9 J
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.94 J	50	3.3 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	Not Detected	5.1	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	1.3 J	17	3.8 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	4.0	6.8	18
Benzene	1.4	7.9	4.6	25
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	9.0	5.9	37
Toluene	1.4	2.0	5.4	7.8
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	0.60 J	9.8	4.0 J
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-14-5-101012

Lab ID#: 1210247A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101814**	**Date of Collection:**	**10/10/12 9:17:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 03:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	~~0.31 J~~ U	6.3	~~1.4 J~~ U
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	1.2 J	7.1	6.1 J
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-14-11.5-101012

Lab ID#: 1210247A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101815**	**Date of Collection:**	**10/10/12 10:06:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	11	10	21
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	10 J	33	24 J
2-Propanol	5.5	4.8 J	14	12 J
Carbon Disulfide	5.5	2.6 J	17	8.0 J
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	1.5 J	48	5.2 J
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	2.8	4.9	9.7
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.85 J	4.8	2.9 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	2.9	6.4	14
Benzene	1.4	1.2 J	4.4	3.9 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.72 J	5.2	2.7 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-14-11.5-101012

Lab ID#: 1210247A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101815**	**Date of Collection:**	**10/10/12 10:06:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	7.7	13	18
Isopentane	5.5	32	16	94

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-17-5-100912

Lab ID#: 1210247A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101816**	**Date of Collection:**	**10/9/12 3:42:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/18/12 04:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.43 J	7.5	2.1 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	2.8 J	11	5.2 J
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	26	36	62
2-Propanol	6.1	2.0 J	15	4.9 J
Carbon Disulfide	6.1	Not Detected	19	Not Detected
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	0.66 J	53	2.3 J
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	Not Detected	5.3	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	1.9 J	18	5.5 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	Not Detected	5.2	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	5.3	7.1	25
Benzene	1.5	1.3 J	4.8	4.3 J
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	Not Detected	6.2	Not Detected
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	0.29 J	5.7	1.1 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-17-5-100912

Lab ID#: 1210247A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101816**	**Date of Collection:**	**10/9/12 3:42:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/18/12 04:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	1.3 J	6.6	5.8 J
o-Xylene	1.5	~~0.60 J~~ U	6.6	~~2.6 J~~ U
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	0.92 J	7.4	4.5 J
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	~~1.1 J~~ U	7.4	~~5.2 J~~ U
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	~~0.12 J~~ U	9.1	~~0.74 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	Not Detected	45	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	Not Detected	14	Not Detected
Isopentane	6.1	Not Detected	18	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101817**	**Date of Collection: 10/9/12 2:30:00 PM**	
Dil. Factor:	**2.64**	**Date of Analysis: 10/18/12 05:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.49 J	6.5	2.4 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.23 J	7.4	1.3 J
Ethanol	5.3	12	9.9	22
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	43	31	100
2-Propanol	5.3	15	13	38
Carbon Disulfide	5.3	Not Detected	16	Not Detected
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	3.9 J	46	14 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	0.58 J	4.6	2.0 J
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	4.5 J	16	13 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	4.4	6.2	21
Benzene	1.3	2.0	4.2	6.4
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	0.65 J	5.4	2.7 J
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	1.2 J	5.0	4.5 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101817**	**Date of Collection: 10/9/12 2:30:00 PM**	
Dil. Factor:	**2.64**	**Date of Analysis: 10/18/12 05:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	~~0.33 J~~	5.7	~~1.4 J~~
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	~~0.13 J~~	7.9	~~0.79 J~~
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	Not Detected	12	Not Detected
Isopentane	5.3	1.9 J	16	5.6 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-19-5-100912

Lab ID#: 1210247A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101818**	**Date of Collection: 10/9/12 1:29:00 PM**	
Dil. Factor:	**2.96**	**Date of Analysis: 10/18/12 06:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.56 J	7.3	2.8 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	Not Detected	11	Not Detected
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	13 J	35	32 J
2-Propanol	5.9	34	14	85
Carbon Disulfide	5.9	0.90 J	18	2.8 J
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	0.84 J	51	2.9 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.28 J	5.2	0.97 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	3.5	6.9	16
Benzene	1.5	1.0 J	4.7	3.3 J
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	Not Detected	5.6	Not Detected
trans-1,3-Dichloropropene	1.5	~~0.30 J~~ u	6.7	~~1.6 J~~ u
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-19-5-100912

Lab ID#: 1210247A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101818**	**Date of Collection: 10/9/12 1:29:00 PM**	
Dil. Factor:	**2.96**	**Date of Analysis: 10/18/12 06:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	~~0.14 J~~ U	8.9	~~0.83 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-24-10-100912

Lab ID#: 1210247A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101819**	**Date of Collection:**	**10/9/12 9:50:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/18/12 06:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.52 J	6.5	2.6 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.26 J	7.4	1.4 J
Ethanol	5.3	19	9.9	36
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	6.6 J	31	16 J
2-Propanol	5.3	30	13	74
Carbon Disulfide	5.3	Not Detected	16	Not Detected
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	0.80 J	46	2.8 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	0.28 J	4.6	0.99 J
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	0.46 J	6.2	2.1 J
Benzene	1.3	0.31 J	4.2	0.99 J
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	Not Detected	5.4	Not Detected
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	1.1 J	5.0	4.2 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: VMP-24-10-100912

Lab ID#: 1210247A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101819**	**Date of Collection:**	**10/9/12 9:50:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/18/12 06:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	~~0.42 J~~	5.7	~~1.8 J~~
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	~~0.15 J~~	7.9	~~0.92 J~~
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	Not Detected	12	Not Detected
Isopentane	5.3	2.4 J	16	7.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101820**	**Date of Collection:**	**10/9/12 10:37:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/18/12 07:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.6	2.7 J
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	0.27 J	7.6	1.5 J
Ethanol	5.4	Not Detected	10	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	5.9 J	32	14 J
2-Propanol	5.4	21	13	51
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	0.70 J	47	2.4 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	0.33 J	4.7	1.1 J
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	0.72 J	6.3	3.4 J
Benzene	1.3	0.42 J	4.3	1.3 J
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101820**	**Date of Collection:**	**10/9/12 10:37:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/18/12 07:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	Not Detected	13	Not Detected
Isopentane	5.4	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-24-34-100912

Lab ID#: 1210247A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101821**	**Date of Collection:**	**10/9/12 11:20:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 07:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.48 J	6.8	2.4 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.30 J	7.8	1.7 J
Ethanol	5.5	3.1 J	10	5.9 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	6.4 J	33	15 J
2-Propanol	5.5	28	14	70
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	0.49 J	48	1.7 J
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.96 J	4.9	3.4 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.53 J	4.8	1.8 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	9.0	6.4	42
Benzene	1.4	2.1	4.4	6.7
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.72 J	5.6	3.0 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.49 J	5.2	1.9 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-24-34-100912

Lab ID#: 1210247A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101821**	**Date of Collection:**	**10/9/12 11:20:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 07:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	4.4 J	16	13 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101914**	**Date of Collection:**	**10/8/12 1:39:00 PM**
Dil. Factor:	**37.6**	**Date of Analysis:**	**10/19/12 03:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	19	Not Detected	93	Not Detected
Freon 114	19	Not Detected	130	Not Detected
Chloromethane	190	Not Detected	390	Not Detected
Vinyl Chloride	19	Not Detected	48	Not Detected
1,3-Butadiene	19	Not Detected	42	Not Detected
Bromomethane	190	Not Detected	730	Not Detected
Chloroethane	75	Not Detected	200	Not Detected
Freon 11	19	Not Detected	100	Not Detected
Ethanol	75	Not Detected	140	Not Detected
Freon 113	19	Not Detected	140	Not Detected
1,1-Dichloroethene	19	Not Detected	74	Not Detected
Acetone	190	3600	450	8400
2-Propanol	75	19 J	180	47 J
Carbon Disulfide	75	49 J	230	150 J
3-Chloropropene	75	Not Detected	240	Not Detected
Methylene Chloride	190	Not Detected	650	Not Detected
Methyl tert-butyl ether	19	Not Detected	68	Not Detected
trans-1,2-Dichloroethene	19	Not Detected	74	Not Detected
Hexane	19	Not Detected	66	Not Detected
1,1-Dichloroethane	19	Not Detected	76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	75	7400	220	22000
cis-1,2-Dichloroethene	19	Not Detected	74	Not Detected
Tetrahydrofuran	19	4800	55	14000
Chloroform	19	Not Detected	92	Not Detected
1,1,1-Trichloroethane	19	Not Detected	100	Not Detected
Cyclohexane	19	Not Detected	65	Not Detected
Carbon Tetrachloride	19	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	19	Not Detected	88	Not Detected
Benzene	19	150	60	470
1,2-Dichloroethane	19	Not Detected	76	Not Detected
Heptane	19	Not Detected	77	Not Detected
Trichloroethene	19	Not Detected	100	Not Detected
1,2-Dichloropropane	19	Not Detected	87	Not Detected
1,4-Dioxane	75	Not Detected	270	Not Detected
Bromodichloromethane	19	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	19	Not Detected	85	Not Detected
4-Methyl-2-pentanone	19	14 J	77	59 J
Toluene	19	4.3 J	71	16 J
trans-1,3-Dichloropropene	19	Not Detected	85	Not Detected
1,1,2-Trichloroethane	19	Not Detected	100	Not Detected
Tetrachloroethene	19	Not Detected	130	Not Detected
2-Hexanone	75	Not Detected	310	Not Detected

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Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101914**	**Date of Collection:**	**10/8/12 1:39:00 PM**
Dil. Factor:	**37.6**	**Date of Analysis:**	**10/19/12 03:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	19	Not Detected	160	Not Detected
1,2-Dibromoethane (EDB)	19	Not Detected	140	Not Detected
Chlorobenzene	19	Not Detected	86	Not Detected
Ethyl Benzene	19	Not Detected	82	Not Detected
m,p-Xylene	19	Not Detected	82	Not Detected
o-Xylene	19	Not Detected	82	Not Detected
Styrene	19	Not Detected	80	Not Detected
Bromoform	19	Not Detected	190	Not Detected
Cumene	19	Not Detected	92	Not Detected
1,1,2,2-Tetrachloroethane	19	Not Detected	130	Not Detected
Propylbenzene	19	Not Detected	92	Not Detected
4-Ethyltoluene	19	Not Detected	92	Not Detected
1,3,5-Trimethylbenzene	19	Not Detected	92	Not Detected
1,2,4-Trimethylbenzene	19	Not Detected	92	Not Detected
1,3-Dichlorobenzene	19	Not Detected	110	Not Detected
1,4-Dichlorobenzene	19	Not Detected	110	Not Detected
alpha-Chlorotoluene	19	Not Detected	97	Not Detected
1,2-Dichlorobenzene	19	Not Detected	110	Not Detected
1,2,4-Trichlorobenzene	75	Not Detected	560	Not Detected
Hexachlorobutadiene	75	Not Detected	800	Not Detected
Butane	75	Not Detected	180	Not Detected
Isopentane	75	Not Detected	220	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-29-20-100812
Lab ID#: 1210247A-15A
EPA METHOD TO-15 GC/MS FULL SCAN

* Use these results only. All other data was reported from the 37.6 X dilution analysis.

File Name:	**3101916**	**Date of Collection:**	**10/8/12 2:29:00 PM**
Dil. Factor:	**84.6**	**Date of Analysis:**	**10/19/12 05:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	42	Not Detected	210	Not Detected
Freon 114	42	Not Detected	300	Not Detected
Chloromethane	420	Not Detected	870	Not Detected
Vinyl Chloride	42	Not Detected	110	Not Detected
1,3-Butadiene	42	Not Detected	94	Not Detected
Bromomethane	420	Not Detected	1600	Not Detected
Chloroethane	170	Not Detected	450	Not Detected
Freon 11	42	Not Detected	240	Not Detected
Ethanol	170	61 J	320	120 J
Freon 113	42	Not Detected	320	Not Detected
1,1-Dichloroethene	42	Not Detected	170	Not Detected
Acetone	420	8000	1000	19000
2-Propanol	170	72 J	420	180 J
Carbon Disulfide	170	120 J	530	380 J
3-Chloropropene	170	Not Detected	530	Not Detected
Methylene Chloride	420	28 J	1500	99 J
Methyl tert-butyl ether	42	Not Detected	150	Not Detected
trans-1,2-Dichloroethene	42	Not Detected	170	Not Detected
Hexane	42	11 J	150	37 J
1,1-Dichloroethane	42	Not Detected	170	Not Detected
* 2-Butanone (Methyl Ethyl Ketone)	170	10000	500	31000
cis-1,2-Dichloroethene	42	Not Detected	170	Not Detected
Tetrahydrofuran	42	5300	120	16000
Chloroform	42	Not Detected	210	Not Detected
1,1,1-Trichloroethane	42	Not Detected	230	Not Detected
Cyclohexane	42	Not Detected	140	Not Detected
Carbon Tetrachloride	42	Not Detected	270	Not Detected
2,2,4-Trimethylpentane	42	Not Detected	200	Not Detected
Benzene	42	31 J	140	99 J
1,2-Dichloroethane	42	Not Detected	170	Not Detected
Heptane	42	Not Detected	170	Not Detected
Trichloroethene	42	Not Detected	230	Not Detected
1,2-Dichloropropane	42	Not Detected	200	Not Detected
1,4-Dioxane	170	Not Detected	610	Not Detected
Bromodichloromethane	42	Not Detected	280	Not Detected
cis-1,3-Dichloropropene	42	Not Detected	190	Not Detected
4-Methyl-2-pentanone	42	22 J	170	89 J
Toluene	42	32 J	160	120 J
trans-1,3-Dichloropropene	42	Not Detected	190	Not Detected
1,1,2-Trichloroethane	42	Not Detected	230	Not Detected
Tetrachloroethene	42	Not Detected	290	Not Detected
2-Hexanone	170	Not Detected	690	Not Detected

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Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101916**	**Date of Collection:**	**10/8/12 2:29:00 PM**
Dil. Factor:	**84.6**	**Date of Analysis:**	**10/19/12 05:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	42	Not Detected	360	Not Detected
1,2-Dibromoethane (EDB)	42	Not Detected	320	Not Detected
Chlorobenzene	42	Not Detected	190	Not Detected
Ethyl Benzene	42	Not Detected	180	Not Detected
m,p-Xylene	42	Not Detected	180	Not Detected
o-Xylene	42	Not Detected	180	Not Detected
Styrene	42	Not Detected	180	Not Detected
Bromoform	42	Not Detected	440	Not Detected
Cumene	42	Not Detected	210	Not Detected
1,1,2,2-Tetrachloroethane	42	Not Detected	290	Not Detected
Propylbenzene	42	Not Detected	210	Not Detected
4-Ethyltoluene	42	Not Detected	210	Not Detected
1,3,5-Trimethylbenzene	42	Not Detected	210	Not Detected
1,2,4-Trimethylbenzene	42	Not Detected	210	Not Detected
1,3-Dichlorobenzene	42	Not Detected	250	Not Detected
1,4-Dichlorobenzene	42	Not Detected	250	Not Detected
alpha-Chlorotoluene	42	Not Detected	220	Not Detected
1,2-Dichlorobenzene	42	Not Detected	250	Not Detected
1,2,4-Trichlorobenzene	170	Not Detected	1200	Not Detected
Hexachlorobutadiene	170	Not Detected	1800	Not Detected
Butane	170	Not Detected	400	Not Detected
Isopentane	170	72 J	500	210 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: VMP-29-20-100812
Lab ID#: 1210247A-15B

(*) Do not use this data. Use all other data.

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101915**	**Date of Collection:**	**10/8/12 2:29:00 PM**
Dil. Factor:	**37.6**	**Date of Analysis:**	**10/19/12 04:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	19	Not Detected	93	Not Detected
Freon 114	19	Not Detected	130	Not Detected
Chloromethane	190	Not Detected	390	Not Detected
Vinyl Chloride	19	Not Detected	48	Not Detected
1,3-Butadiene	19	Not Detected	42	Not Detected
Bromomethane	190	Not Detected	730	Not Detected
Chloroethane	75	Not Detected	200	Not Detected
Freon 11	19	Not Detected	100	Not Detected
Ethanol	75	41 J	140	77 J
Freon 113	19	Not Detected	140	Not Detected
1,1-Dichloroethene	19	Not Detected	74	Not Detected
Acetone	190	6200	450	15000
2-Propanol	75	40 J	180	97 J
Carbon Disulfide	75	73 J	230	230 J
3-Chloropropene	75	Not Detected	240	Not Detected
Methylene Chloride	190	Not Detected	650	Not Detected
Methyl tert-butyl ether	19	Not Detected	68	Not Detected
trans-1,2-Dichloroethene	19	Not Detected	74	Not Detected
Hexane	19	Not Detected	66	Not Detected
1,1-Dichloroethane	19	Not Detected	76	Not Detected
(*) 2-Butanone (Methyl Ethyl Ketone)	75	14000 E	220	40000 E
cis-1,2-Dichloroethene	19	Not Detected	74	Not Detected
Tetrahydrofuran	19	6900	55	20000
Chloroform	19	Not Detected	92	Not Detected
1,1,1-Trichloroethane	19	Not Detected	100	Not Detected
Cyclohexane	19	Not Detected	65	Not Detected
Carbon Tetrachloride	19	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	19	Not Detected	88	Not Detected
Benzene	19	38	60	120
1,2-Dichloroethane	19	Not Detected	76	Not Detected
Heptane	19	Not Detected	77	Not Detected
Trichloroethene	19	Not Detected	100	Not Detected
1,2-Dichloropropane	19	Not Detected	87	Not Detected
1,4-Dioxane	75	Not Detected	270	Not Detected
Bromodichloromethane	19	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	19	Not Detected	85	Not Detected
4-Methyl-2-pentanone	19	23	77	93
Toluene	19	6.2 J	71	23 J
trans-1,3-Dichloropropene	19	Not Detected	85	Not Detected
1,1,2-Trichloroethane	19	Not Detected	100	Not Detected
Tetrachloroethene	19	Not Detected	130	Not Detected
2-Hexanone	75	Not Detected	310	Not Detected

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Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247A-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101915**	**Date of Collection: 10/8/12 2:29:00 PM**	
Dil. Factor:	**37.6**	**Date of Analysis: 10/19/12 04:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	19	Not Detected	160	Not Detected
1,2-Dibromoethane (EDB)	19	Not Detected	140	Not Detected
Chlorobenzene	19	Not Detected	86	Not Detected
Ethyl Benzene	19	Not Detected	82	Not Detected
m,p-Xylene	19	Not Detected	82	Not Detected
o-Xylene	19	Not Detected	82	Not Detected
Styrene	19	Not Detected	80	Not Detected
Bromoform	19	Not Detected	190	Not Detected
Cumene	19	Not Detected	92	Not Detected
1,1,2,2-Tetrachloroethane	19	Not Detected	130	Not Detected
Propylbenzene	19	Not Detected	92	Not Detected
4-Ethyltoluene	19	Not Detected	92	Not Detected
1,3,5-Trimethylbenzene	19	Not Detected	92	Not Detected
1,2,4-Trimethylbenzene	19	Not Detected	92	Not Detected
1,3-Dichlorobenzene	19	Not Detected	110	Not Detected
1,4-Dichlorobenzene	19	Not Detected	110	Not Detected
alpha-Chlorotoluene	19	Not Detected	97	Not Detected
1,2-Dichlorobenzene	19	Not Detected	110	Not Detected
1,2,4-Trichlorobenzene	75	Not Detected	560	Not Detected
Hexachlorobutadiene	75	Not Detected	800	Not Detected
Butane	75	Not Detected	180	Not Detected
Isopentane	75	Not Detected	220	Not Detected

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: VMP-29-30-100812

Lab ID#: 1210247A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101913**	**Date of Collection:**	**10/8/12 3:20:00 PM**
Dil. Factor:	**185**	**Date of Analysis:**	**10/19/12 02:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	92	Not Detected	460	Not Detected
Freon 114	92	Not Detected	650	Not Detected
Chloromethane	920	Not Detected	1900	Not Detected
Vinyl Chloride	92	Not Detected	240	Not Detected
1,3-Butadiene	92	Not Detected	200	Not Detected
Bromomethane	920	Not Detected	3600	Not Detected
Chloroethane	370	Not Detected	980	Not Detected
Freon 11	92	Not Detected	520	Not Detected
Ethanol	370	Not Detected	700	Not Detected
Freon 113	92	Not Detected	710	Not Detected
1,1-Dichloroethene	92	Not Detected	370	Not Detected
Acetone	920	23000	2200	54000
2-Propanol	370	220 J	910	550 J
Carbon Disulfide	370	490	1200	1500
3-Chloropropene	370	Not Detected	1200	Not Detected
Methylene Chloride	920	98 J	3200	340 J
Methyl tert-butyl ether	92	Not Detected	330	Not Detected
trans-1,2-Dichloroethene	92	Not Detected	370	Not Detected
Hexane	92	30 J	330	100 J
1,1-Dichloroethane	92	Not Detected	370	Not Detected
2-Butanone (Methyl Ethyl Ketone)	370	24000	1100	72000
cis-1,2-Dichloroethene	92	Not Detected	370	Not Detected
Tetrahydrofuran	92	16000	270	47000
Chloroform	92	Not Detected	450	Not Detected
1,1,1-Trichloroethane	92	Not Detected	500	Not Detected
Cyclohexane	92	Not Detected	320	Not Detected
Carbon Tetrachloride	92	Not Detected	580	Not Detected
2,2,4-Trimethylpentane	92	Not Detected	430	Not Detected
Benzene	92	34 J	300	110 J
1,2-Dichloroethane	92	Not Detected	370	Not Detected
Heptane	92	Not Detected	380	Not Detected
Trichloroethene	92	Not Detected	500	Not Detected
1,2-Dichloropropane	92	Not Detected	430	Not Detected
1,4-Dioxane	370	Not Detected	1300	Not Detected
Bromodichloromethane	92	Not Detected	620	Not Detected
cis-1,3-Dichloropropene	92	Not Detected	420	Not Detected
4-Methyl-2-pentanone	92	Not Detected	380	Not Detected
Toluene	92	150	350	550
trans-1,3-Dichloropropene	92	Not Detected	420	Not Detected
1,1,2-Trichloroethane	92	Not Detected	500	Not Detected
Tetrachloroethene	92	Not Detected	630	Not Detected
2-Hexanone	370	Not Detected	1500	Not Detected

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Client Sample ID: VMP-29-30-100812

Lab ID#: 1210247A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101913**	**Date of Collection:**	**10/8/12 3:20:00 PM**
Dil. Factor:	**185**	**Date of Analysis:**	**10/19/12 02:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	92	Not Detected	790	Not Detected
1,2-Dibromoethane (EDB)	92	Not Detected	710	Not Detected
Chlorobenzene	92	Not Detected	420	Not Detected
Ethyl Benzene	92	Not Detected	400	Not Detected
m,p-Xylene	92	Not Detected	400	Not Detected
o-Xylene	92	Not Detected	400	Not Detected
Styrene	92	28 J	390	120 J
Bromoform	92	Not Detected	960	Not Detected
Cumene	92	Not Detected	450	Not Detected
1,1,2,2-Tetrachloroethane	92	Not Detected	640	Not Detected
Propylbenzene	92	Not Detected	450	Not Detected
4-Ethyltoluene	92	Not Detected	450	Not Detected
1,3,5-Trimethylbenzene	92	Not Detected	450	Not Detected
1,2,4-Trimethylbenzene	92	Not Detected	450	Not Detected
1,3-Dichlorobenzene	92	Not Detected	560	Not Detected
1,4-Dichlorobenzene	92	9.8 J	560	59 J
alpha-Chlorotoluene	92	Not Detected	480	Not Detected
1,2-Dichlorobenzene	92	Not Detected	560	Not Detected
1,2,4-Trichlorobenzene	370	Not Detected	2700	Not Detected
Hexachlorobutadiene	370	Not Detected	3900	Not Detected
Butane	370	Not Detected	880	Not Detected
Isopentane	370	160 J	1100	460 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: VMP-30-10-100812
Lab ID#: 1210247A-17A
EPA METHOD TO-15 GC/MS FULL SCAN

* Use these results only. All other data was reported from the 2.82X dilution analysis.

File Name:	**3101823**	**Date of Collection:**	**10/8/12 10:18:00 AM**
Dil. Factor:	**5.64**	**Date of Analysis:**	**10/18/12 09:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.8	Not Detected	14	Not Detected
Freon 114	2.8	Not Detected	20	Not Detected
Chloromethane	28	Not Detected	58	Not Detected
Vinyl Chloride	2.8	Not Detected	7.2	Not Detected
1,3-Butadiene	2.8	Not Detected	6.2	Not Detected
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	11	Not Detected	30	Not Detected
Freon 11	2.8	Not Detected	16	Not Detected
Ethanol	11	10 J	21	19 J
Freon 113	2.8	Not Detected	22	Not Detected
1,1-Dichloroethene	2.8	Not Detected	11	Not Detected
Acetone	28	380	67	900
2-Propanol	11	7.8 J	28	19 J
Carbon Disulfide	11	6.6 J	35	21 J
3-Chloropropene	11	Not Detected	35	Not Detected
Methylene Chloride	28	0.46 J	98	1.6 J
Methyl tert-butyl ether	2.8	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Hexane	2.8	Not Detected	9.9	Not Detected
1,1-Dichloroethane	2.8	Not Detected	11	Not Detected
* 2-Butanone (Methyl Ethyl Ketone)	11	780	33	2300
cis-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Tetrahydrofuran	2.8	540	8.3	1600
Chloroform	2.8	Not Detected	14	Not Detected
1,1,1-Trichloroethane	2.8	Not Detected	15	Not Detected
Cyclohexane	2.8	Not Detected	9.7	Not Detected
Carbon Tetrachloride	2.8	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	2.8	7.6	13	36
Benzene	2.8	4.9	9.0	16
1,2-Dichloroethane	2.8	Not Detected	11	Not Detected
Heptane	2.8	Not Detected	12	Not Detected
Trichloroethene	2.8	Not Detected	15	Not Detected
1,2-Dichloropropane	2.8	Not Detected	13	Not Detected
1,4-Dioxane	11	Not Detected	41	Not Detected
Bromodichloromethane	2.8	Not Detected	19	Not Detected
cis-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.8	11	12	44
Toluene	2.8	2.1 J	11	7.9 J
trans-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
1,1,2-Trichloroethane	2.8	Not Detected	15	Not Detected
Tetrachloroethene	2.8	0.66 J	19	4.5 J
2-Hexanone	11	Not Detected	46	Not Detected

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Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101823**	**Date of Collection:**	**10/8/12 10:18:00 AM**
Dil. Factor:	**5.64**	**Date of Analysis:**	**10/18/12 09:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.8	Not Detected	24	Not Detected
1,2-Dibromoethane (EDB)	2.8	Not Detected	22	Not Detected
Chlorobenzene	2.8	Not Detected	13	Not Detected
Ethyl Benzene	2.8	Not Detected	12	Not Detected
m,p-Xylene	2.8	Not Detected	12	Not Detected
o-Xylene	2.8	Not Detected	12	Not Detected
Styrene	2.8	Not Detected	12	Not Detected
Bromoform	2.8	Not Detected	29	Not Detected
Cumene	2.8	1.5 J	14	7.2 J
1,1,2,2-Tetrachloroethane	2.8	Not Detected	19	Not Detected
Propylbenzene	2.8	Not Detected	14	Not Detected
4-Ethyltoluene	2.8	Not Detected	14	Not Detected
1,3,5-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,2,4-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,3-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,4-Dichlorobenzene	2.8	Not Detected	17	Not Detected
alpha-Chlorotoluene	2.8	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	84	Not Detected
Hexachlorobutadiene	11	Not Detected	120	Not Detected
Butane	11	Not Detected	27	Not Detected
Isopentane	11	5.4 J	33	16 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-30-10-100812 ⊗ Do not use this data. Use all other data.
Lab ID#: 1210247A-17B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101822**	**Date of Collection:**	**10/8/12 10:18:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 08:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.0	2.2 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	7.9	Not Detected
Ethanol	5.6	12	11	22
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	360	33	870
2-Propanol	5.6	7.9	14	19
Carbon Disulfide	5.6	6.4	18	20
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	0.58 J	49	2.0 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.28 J	5.0	0.99 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
⊗ 2-Butanone (Methyl Ethyl Ketone)	5.6	770 E	17	2300 E
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	530	4.2	1600
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	0.38 J	4.8	1.3 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	7.8	6.6	36
Benzene	1.4	5.0	4.5	16
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	0.69 J	5.8	2.8 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	12	5.8	51
Toluene	1.4	2.5	5.3	9.6
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	0.60 J	9.6	4.1 J
2-Hexanone	5.6	Not Detected	23	Not Detected

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Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247A-17B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101822**	**Date of Collection:**	**10/8/12 10:18:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 08:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	~~0.43 J~~ U	6.1	~~1.8 J~~ U
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	1.6	6.9	7.8
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	Not Detected	13	Not Detected
Isopentane	5.6	4.8 J	17	14 J

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101912**	**Date of Collection:**	**10/8/12 11:11:00 AM**
Dil. Factor:	**116**	**Date of Analysis:**	**10/19/12 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	58	Not Detected	290	Not Detected
Freon 114	58	Not Detected	400	Not Detected
Chloromethane	580	Not Detected	1200	Not Detected
Vinyl Chloride	58	Not Detected	150	Not Detected
1,3-Butadiene	58	Not Detected	130	Not Detected
Bromomethane	580	Not Detected	2200	Not Detected
Chloroethane	230	Not Detected	610	Not Detected
Freon 11	58	Not Detected	320	Not Detected
Ethanol	230	130 J	440	250 J
Freon 113	58	Not Detected	440	Not Detected
1,1-Dichloroethene	58	Not Detected	230	Not Detected
Acetone	580	19000	1400	44000
2-Propanol	230	110 J	570	260 J
Carbon Disulfide	230	370	720	1100
3-Chloropropene	230	Not Detected	730	Not Detected
Methylene Chloride	580	72 J	2000	250 J
Methyl tert-butyl ether	58	Not Detected	210	Not Detected
trans-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Hexane	58	Not Detected	200	Not Detected
1,1-Dichloroethane	58	Not Detected	230	Not Detected
2-Butanone (Methyl Ethyl Ketone)	230	15000	680	45000
cis-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Tetrahydrofuran	58	9800	170	29000
Chloroform	58	Not Detected	280	Not Detected
1,1,1-Trichloroethane	58	Not Detected	320	Not Detected
Cyclohexane	58	Not Detected	200	Not Detected
Carbon Tetrachloride	58	Not Detected	360	Not Detected
2,2,4-Trimethylpentane	58	Not Detected	270	Not Detected
Benzene	58	110	180	350
1,2-Dichloroethane	58	Not Detected	230	Not Detected
Heptane	58	Not Detected	240	Not Detected
Trichloroethene	58	Not Detected	310	Not Detected
1,2-Dichloropropane	58	Not Detected	270	Not Detected
1,4-Dioxane	230	Not Detected	840	Not Detected
Bromodichloromethane	58	Not Detected	390	Not Detected
cis-1,3-Dichloropropene	58	Not Detected	260	Not Detected
4-Methyl-2-pentanone	58	Not Detected	240	Not Detected
Toluene	58	100	220	390
trans-1,3-Dichloropropene	58	Not Detected	260	Not Detected
1,1,2-Trichloroethane	58	Not Detected	320	Not Detected
Tetrachloroethene	58	Not Detected	390	Not Detected
2-Hexanone	230	Not Detected	950	Not Detected

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Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101912**	**Date of Collection:**	**10/8/12 11:11:00 AM**
Dil. Factor:	**116**	**Date of Analysis:**	**10/19/12 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	58	Not Detected	490	Not Detected
1,2-Dibromoethane (EDB)	58	Not Detected	440	Not Detected
Chlorobenzene	58	Not Detected	270	Not Detected
Ethyl Benzene	58	Not Detected	250	Not Detected
m,p-Xylene	58	Not Detected	250	Not Detected
o-Xylene	58	Not Detected	250	Not Detected
Styrene	58	29 J	250	120 J
Bromoform	58	Not Detected	600	Not Detected
Cumene	58	Not Detected	280	Not Detected
1,1,2,2-Tetrachloroethane	58	Not Detected	400	Not Detected
Propylbenzene	58	Not Detected	280	Not Detected
4-Ethyltoluene	58	Not Detected	280	Not Detected
1,3,5-Trimethylbenzene	58	Not Detected	280	Not Detected
1,2,4-Trimethylbenzene	58	Not Detected	280	Not Detected
1,3-Dichlorobenzene	58	Not Detected	350	Not Detected
1,4-Dichlorobenzene	58	5.6 J	350	34 J
alpha-Chlorotoluene	58	Not Detected	300	Not Detected
1,2-Dichlorobenzene	58	Not Detected	350	Not Detected
1,2,4-Trichlorobenzene	230	Not Detected	1700	Not Detected
Hexachlorobutadiene	230	Not Detected	2500	Not Detected
Butane	230	Not Detected	550	Not Detected
Isopentane	230	61 J	680	180 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101911**	**Date of Collection:**	**10/8/12 12:11:00 PM**
Dil. Factor:	**241**	**Date of Analysis:**	**10/19/12 01:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	600	Not Detected
Freon 114	120	Not Detected	840	Not Detected
Chloromethane	1200	Not Detected	2500	Not Detected
Vinyl Chloride	120	Not Detected	310	Not Detected
1,3-Butadiene	120	Not Detected	270	Not Detected
Bromomethane	1200	Not Detected	4700	Not Detected
Chloroethane	480	Not Detected	1300	Not Detected
Freon 11	120	Not Detected	680	Not Detected
Ethanol	480	Not Detected	910	Not Detected
Freon 113	120	Not Detected	920	Not Detected
1,1-Dichloroethene	120	Not Detected	480	Not Detected
Acetone	1200	32000	2900	75000
2-Propanol	480	190 J	1200	460 J
Carbon Disulfide	480	380 J	1500	1200 J
3-Chloropropene	480	Not Detected	1500	Not Detected
Methylene Chloride	1200	81 J	4200	280 J
Methyl tert-butyl ether	120	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	480	Not Detected
Hexane	120	30 J	420	110 J
1,1-Dichloroethane	120	Not Detected	490	Not Detected
2-Butanone (Methyl Ethyl Ketone)	480	35000	1400	100000
cis-1,2-Dichloroethene	120	Not Detected	480	Not Detected
Tetrahydrofuran	120	23000	360	67000
Chloroform	120	Not Detected	590	Not Detected
1,1,1-Trichloroethane	120	Not Detected	660	Not Detected
Cyclohexane	120	Not Detected	410	Not Detected
Carbon Tetrachloride	120	Not Detected	760	Not Detected
2,2,4-Trimethylpentane	120	21 J	560	100 J
Benzene	120	1700	380	5400
1,2-Dichloroethane	120	Not Detected	490	Not Detected
Heptane	120	Not Detected	490	Not Detected
Trichloroethene	120	Not Detected	650	Not Detected
1,2-Dichloropropane	120	Not Detected	560	Not Detected
1,4-Dioxane	480	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	810	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	550	Not Detected
4-Methyl-2-pentanone	120	Not Detected	490	Not Detected
Toluene	120	130	450	490
trans-1,3-Dichloropropene	120	Not Detected	550	Not Detected
1,1,2-Trichloroethane	120	Not Detected	660	Not Detected
Tetrachloroethene	120	Not Detected	820	Not Detected
2-Hexanone	480	Not Detected	2000	Not Detected

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Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101911**	**Date of Collection:**	**10/8/12 12:11:00 PM**
Dil. Factor:	**241**	**Date of Analysis:**	**10/19/12 01:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	920	Not Detected
Chlorobenzene	120	Not Detected	550	Not Detected
Ethyl Benzene	120	Not Detected	520	Not Detected
m,p-Xylene	120	Not Detected	520	Not Detected
o-Xylene	120	Not Detected	520	Not Detected
Styrene	120	22 J	510	93 J
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	590	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	830	Not Detected
Propylbenzene	120	Not Detected	590	Not Detected
4-Ethyltoluene	120	Not Detected	590	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	590	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	590	Not Detected
1,3-Dichlorobenzene	120	Not Detected	720	Not Detected
1,4-Dichlorobenzene	120	Not Detected	720	Not Detected
alpha-Chlorotoluene	120	Not Detected	620	Not Detected
1,2-Dichlorobenzene	120	Not Detected	720	Not Detected
1,2,4-Trichlorobenzene	480	Not Detected	3600	Not Detected
Hexachlorobutadiene	480	Not Detected	5100	Not Detected
Butane	480	200 J	1100	490 J
Isopentane	480	350 J	1400	1000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: VMP-41-10-100912

Lab ID#: 1210247A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101825**	**Date of Collection:**	**10/9/12 2:10:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/18/12 10:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.65 J	7.3	3.2 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	19	11	35
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	8.5 J	35	20 J
2-Propanol	5.9	14	14	35
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	0.67 J	51	2.3 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	Not Detected	5.2	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	4.2 J	17	12 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	0.19 J	6.9	0.89 J
Benzene	1.5	10	4.7	34
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	0.62 J	6.1	2.5 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	25	6.1	100
Toluene	1.5	5.9	5.6	22
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	1.7	10	12
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-41-10-100912

Lab ID#: 1210247A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101825**	**Date of Collection: 10/9/12 2:10:00 PM**	
Dil. Factor:	**2.96**	**Date of Analysis: 10/18/12 10:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.87 J	6.4	3.8 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	4.2	7.3	21
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101826**	**Date of Collection: 10/9/12 3:00:00 PM**	
Dil. Factor:	**2.89**	**Date of Analysis: 10/18/12 11:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	7.1	2.6 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	3.8 J	30	7.9 J
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	17	11	31
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	23	34	55
2-Propanol	5.8	8.2	14	20
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	1.2 J	50	4.2 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.30 J	5.1	1.0 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	3.9 J	17	12 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.8	Not Detected
Benzene	1.4	8.4	4.6	27
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.59 J	5.9	2.4 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	19	5.9	79
Toluene	1.4	4.0	5.4	15
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	1.3 J	9.8	9.1 J
2-Hexanone	5.8	0.34 J	24	1.4 J

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Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101826**	**Date of Collection: 10/9/12 3:00:00 PM**	
Dil. Factor:	**2.89**	**Date of Analysis: 10/18/12 11:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	0.86 J	6.3	3.7 J
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	0.22 J	6.2	0.92 J
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	3.9	7.1	19
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-41-20-100912-DUP

Lab ID#: 1210247A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101907**	**Date of Collection:**	**10/9/12 3:00:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/19/12 11:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.57 J	7.3	2.8 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	17	11	32
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	10 J	35	24 J
2-Propanol	5.9	7.8	14	19
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	~~0.47 J~~ U	51	~~1.6 J~~ U
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	Not Detected	5.2	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	3.1 J	17	9.0 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	Not Detected	6.9	Not Detected
Benzene	1.5	8.5	4.7	27
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	0.50 J	6.1	2.0 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	20	6.1	84
Toluene	1.5	4.2	5.6	16
trans-1,3-Dichloropropene	1.5	~~0.24 J~~ U	6.7	~~1.1 J~~ U
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	1.1 J	10	7.3 J
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-41-20-100912-DUP

Lab ID#: 1210247A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101907**	**Date of Collection:**	**10/9/12 3:00:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/19/12 11:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.81 J	6.4	3.5 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	0.30 J	6.3	1.3 J
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	4.2	7.3	21
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.30 J~~ U	7.3	~~1.5 J~~ U
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	~~0.64 J~~ U	7.3	~~3.2 J~~ U
1,3-Dichlorobenzene	1.5	~~0.25 J~~ U	8.9	~~1.5 J~~ U
1,4-Dichlorobenzene	1.5	~~0.23 J~~ U	8.9	~~1.4 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	~~0.58 J~~ U	63	~~6.2 J~~ U
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247A-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101908**	**Date of Collection: 10/9/12 3:42:00 PM**	
Dil. Factor:	**3.11**	**Date of Analysis: 10/19/12 12:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.63 J	7.7	3.1 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	32	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	13	12	24
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	8.0 J	37	19 J
2-Propanol	6.2	3.8 J	15	9.3 J
Carbon Disulfide	6.2	Not Detected	19	Not Detected
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	~~0.53 J~~	54	~~1.8 J~~
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	0.38 J	5.5	1.3 J
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	2.7 J	18	8.0 J
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	Not Detected	5.4	Not Detected
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	0.82 J	7.3	3.8 J
Benzene	1.6	13	5.0	41
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	0.57 J	6.4	2.4 J
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	9.9	6.4	41
Toluene	1.6	2.6	5.8	9.8
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	0.68 J	10	4.6 J
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247A-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101908**	**Date of Collection: 10/9/12 3:42:00 PM**	
Dil. Factor:	**3.11**	**Date of Analysis: 10/19/12 12:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	Not Detected	6.8	Not Detected
m,p-Xylene	1.6	0.43 J	6.8	1.8 J
o-Xylene	1.6	Not Detected	6.8	Not Detected
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	2.6	7.6	13
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.6	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,2,4-Trimethylbenzene	1.6	~~0.45 J~~ U	7.6	~~2.2 J~~ U
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	~~0.14 J~~ U	9.3	~~0.85 J~~ U
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	Not Detected	15	Not Detected
Isopentane	6.2	Not Detected	18	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-7-5-101012

Lab ID#: 1210247A-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101909**	**Date of Collection:**	**10/10/12 11:42:00 A**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/19/12 12:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.3	2.6 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.25 J	8.3	1.4 J
Ethanol	5.9	2.1 J	11	4.0 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	15	35	37
2-Propanol	5.9	Not Detected	14	Not Detected
Carbon Disulfide	5.9	1.1 J	18	3.4 J
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	0.97 J	51	3.4 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.33 J	5.2	1.2 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	0.70 J	6.9	3.3 J
Benzene	1.5	0.75 J	4.7	2.4 J
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	0.28 J	5.6	1.1 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-7-5-101012

Lab ID#: 1210247A-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101909**	**Date of Collection:**	**10/10/12 11:42:00 A**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/19/12 12:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247A-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101910**	**Date of Collection:**	**10/10/12 12:50:00 P**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/19/12 12:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	6.8	2.6 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.24 J	7.8	1.4 J
Ethanol	5.5	6.0	10	11
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	28	33	65
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	5.5	1.3 J	17	4.2 J
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	1.2 J	48	4.1 J
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.99 J	4.9	3.5 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	2.2 J	16	6.6 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	2.4	6.4	11
Benzene	1.4	1.8	4.4	5.8
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.66 J	5.6	2.7 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.30 J	5.2	1.1 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247A-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101910**	**Date of Collection:**	**10/10/12 12:50:00 P**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/19/12 12:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.1 J	16	3.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210247A-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101806e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.083 J	2.3	0.38 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210247A-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101806e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.11 J	2.2	0.48 J
o-Xylene	0.50	0.15 J	2.2	0.67 J
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.15 J	2.4	0.76 J
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.13 J	2.4	0.64 J
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.21 J	2.4	1.0 J
1,2,4-Trimethylbenzene	0.50	0.23 J	2.4	1.1 J
1,3-Dichlorobenzene	0.50	0.11 J	3.0	0.66 J
1,4-Dichlorobenzene	0.50	0.11 J	3.0	0.69 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.32 J	15	2.4 J
Hexachlorobutadiene	2.0	0.33 J	21	3.5 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210247A-26B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 11:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.11 J	17	0.38 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.12 J	2.3	0.53 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210247A-26B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 11:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.17 J	2.4	0.82 J
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.14 J	2.4	0.70 J
4-Ethyltoluene	0.50	0.14 J	2.4	0.68 J
1,3,5-Trimethylbenzene	0.50	0.24 J	2.4	1.2 J
1,2,4-Trimethylbenzene	0.50	0.18 J	2.4	0.88 J
1,3-Dichlorobenzene	0.50	0.086 J	3.0	0.52 J
1,4-Dichlorobenzene	0.50	0.12 J	3.0	0.73 J
alpha-Chlorotoluene	0.50	0.060 J	2.6	0.31 J
1,2-Dichlorobenzene	0.50	0.13 J	3.0	0.81 J
1,2,4-Trichlorobenzene	2.0	0.33 J	15	2.4 J
Hexachlorobutadiene	2.0	0.41 J	21	4.4 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1210247A-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:09 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	94
Chloromethane	100
Vinyl Chloride	96
1,3-Butadiene	103
Bromomethane	96
Chloroethane	96
Freon 11	99
Ethanol	98
Freon 113	98
1,1-Dichloroethene	98
Acetone	98
2-Propanol	106
Carbon Disulfide	97
3-Chloropropene	93
Methylene Chloride	103
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	98
Hexane	101
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	98
Tetrahydrofuran	113
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	99
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	103
Benzene	99
1,2-Dichloroethane	102
Heptane	105
Trichloroethene	99
1,2-Dichloropropane	98
1,4-Dioxane	80
Bromodichloromethane	100
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	112
Toluene	99
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	98
Tetrachloroethene	95
2-Hexanone	108

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1210247A-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:09 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	98
Chlorobenzene	94
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	101
Styrene	103
Bromoform	102
Cumene	100
1,1,2,2-Tetrachloroethane	97
Propylbenzene	99
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	88
Butane	98
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1210247A-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 08:47 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	96
Chloromethane	106
Vinyl Chloride	98
1,3-Butadiene	106
Bromomethane	98
Chloroethane	96
Freon 11	103
Ethanol	103
Freon 113	100
1,1-Dichloroethene	97
Acetone	101
2-Propanol	109
Carbon Disulfide	99
3-Chloropropene	101
Methylene Chloride	109
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	98
Hexane	103
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	97
Tetrahydrofuran	114
Chloroform	100
1,1,1-Trichloroethane	103
Cyclohexane	98
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	104
Benzene	101
1,2-Dichloroethane	108
Heptane	106
Trichloroethene	100
1,2-Dichloropropane	100
1,4-Dioxane	79
Bromodichloromethane	104
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	114
Toluene	101
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	99
Tetrachloroethene	98
2-Hexanone	111

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1210247A-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 08:47 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	103
Styrene	106
Bromoform	108
Cumene	104
1,1,2,2-Tetrachloroethane	100
Propylbenzene	103
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	95
Butane	98
Isopentane	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 1210247A-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:44 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	99
Chloromethane	98
Vinyl Chloride	106
1,3-Butadiene	108
Bromomethane	102
Chloroethane	100
Freon 11	106
Ethanol	95
Freon 113	107
1,1-Dichloroethene	111
Acetone	101
2-Propanol	110
Carbon Disulfide	128
3-Chloropropene	118
Methylene Chloride	107
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	118
Hexane	106
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	104
Tetrahydrofuran	113
Chloroform	106
1,1,1-Trichloroethane	110
Cyclohexane	108
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	111
Benzene	104
1,2-Dichloroethane	105
Heptane	107
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	78
Bromodichloromethane	106
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	114
Toluene	102
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	105
Tetrachloroethene	102
2-Hexanone	112

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Client Sample ID: LCS

Lab ID#: 1210247A-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:44 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	106
Chlorobenzene	101
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	108
Styrene	109
Bromoform	106
Cumene	108
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	99
Butane	100
Isopentane	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1210247A-28AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:16 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	98
Chloromethane	94
Vinyl Chloride	102
1,3-Butadiene	106
Bromomethane	101
Chloroethane	97
Freon 11	102
Ethanol	93
Freon 113	104
1,1-Dichloroethene	110
Acetone	102
2-Propanol	108
Carbon Disulfide	125
3-Chloropropene	115
Methylene Chloride	105
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	115
Hexane	106
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	104
Tetrahydrofuran	111
Chloroform	103
1,1,1-Trichloroethane	107
Cyclohexane	106
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	108
Benzene	102
1,2-Dichloroethane	103
Heptane	107
Trichloroethene	102
1,2-Dichloropropane	103
1,4-Dioxane	79
Bromodichloromethane	105
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	113
Toluene	102
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	102
Tetrachloroethene	100
2-Hexanone	112

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Client Sample ID: LCSD

Lab ID#: 1210247A-28AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:16 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	105
m,p-Xylene	108
o-Xylene	109
Styrene	108
Bromoform	106
Cumene	108
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	100
Butane	94
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1210247A-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 09:24 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	98
Chloromethane	94
Vinyl Chloride	104
1,3-Butadiene	109
Bromomethane	101
Chloroethane	98
Freon 11	106
Ethanol	92
Freon 113	105
1,1-Dichloroethene	108
Acetone	100
2-Propanol	111
Carbon Disulfide	126
3-Chloropropene	118
Methylene Chloride	108
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	114
Hexane	106
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	102
Tetrahydrofuran	114
Chloroform	104
1,1,1-Trichloroethane	106
Cyclohexane	102
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	108
Benzene	102
1,2-Dichloroethane	106
Heptane	104
Trichloroethene	103
1,2-Dichloropropane	103
1,4-Dioxane	77
Bromodichloromethane	104
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	111
Toluene	101
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	100
Tetrachloroethene	97
2-Hexanone	109

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210247A-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 09:24 AM**	

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	103
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	105
o-Xylene	107
Styrene	106
Bromoform	104
Cumene	106
1,1,2,2-Tetrachloroethane	104
Propylbenzene	106
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	100
Butane	101
Isopentane	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	102	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210247A-28BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 09:56 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	97
Chloromethane	91
Vinyl Chloride	103
1,3-Butadiene	105
Bromomethane	97
Chloroethane	97
Freon 11	103
Ethanol	91
Freon 113	104
1,1-Dichloroethene	108
Acetone	98
2-Propanol	109
Carbon Disulfide	124
3-Chloropropene	118
Methylene Chloride	105
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	114
Hexane	104
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	102
Tetrahydrofuran	107
Chloroform	102
1,1,1-Trichloroethane	106
Cyclohexane	103
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	106
Benzene	102
1,2-Dichloroethane	104
Heptane	105
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	77
Bromodichloromethane	106
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	112
Toluene	101
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	100
Tetrachloroethene	97
2-Hexanone	106

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210247A-28BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/19/12 09:56 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	102
m,p-Xylene	104
o-Xylene	106
Styrene	105
Bromoform	104
Cumene	106
1,1,2,2-Tetrachloroethane	102
Propylbenzene	105
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	98
Butane	96
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	101	70-130

Shell Oil Products Chain Of Custody Record

1210247

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/10/12
PAGE 1 of 3

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
REP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L Rathnow, S. Jansen, C. Williams, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Conister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-13-5-100912	10/09/12	0903-0933	9453	-29.5	-9			X	X	
02A	VMP-13-10.5-100912	10/09/12	0952-1025	9378	-27.5	-6			X	X	
03A	VMP-13-10.5-100912-DUP	10/09/12	0952-1025	2050	-29	-10			X	X	
04A	VMP-13-21.5-100912	10/09/12	1040-1110	24389	-30	-9.5			X	X	
05A	VMP-14-5-101012	10/10/12	0845-0917	8021	-30	-9.5			X	X	
06A	VMP-14-11.5-101012	10/10/12	0936-1006	23830	-27	-8.5			X	X	
07A	VMP-17-5-100912	10/09/12	1510-1542	31786	-30	-11.5			X	X	
08A	VMP-18-8.5-100912	10/09/12	1358-1430	33408	-28.5	-7.5			X	X	
09A	VMP-19-5-100912	10/09/12	1259-1329	35687	-30	-10.5			X	X	
										dnc	

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/10/12	1640
	AR 10/11/12	10/11/12	0925

Custody Seal Intact? Y N None Temp N/A

05/2006 Revision

Shell Oil Products Chain Of Custody Record

121047

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT #: (ENV SERVICES) 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/10/12

PAGE: 2 of 3

PO #

SAP # 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME#: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L.Rathnow, S. Jansen, C. Williams, C. Kretzer

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
10A	VMP-24-5-100912	10/09/12	0836-0903	33946	-30	-9.5			X	X						
11A	VMP-24-10-100912	10/09/12	0920-0950	37394	-28.5	-8			X	X						
12A	VMP-24-22-100912	10/09/12	1006-1037	35633	-30	-9			X	X						
13A	VMP-24-34-100912	10/09/12	1050-1120	30823	-30	-9			X	X						
14A	VMP-29-10-100812	10/08/12	1305-1339	37736	-29.5	-8			X	X						
15A	VMP-29-20-100812	10/08/12	1356-1429	8001	-30	-8.5			X	X						
16A	VMP-29-30-100812	10/08/12	1448-1520	36524	-29.5	-9.5			X	X						
17A	VMP-30-10-100812	10/08/12	0948-1018	34088	-29.5	-8			X	X						
18A	VMP-30-20-100812	10/08/12	1040-1111	36404	-30	-9			X	X						
19A	VMP-30-30-100812	10/08/12	1147-1211	3997	-29.5	-8.5			X	X						

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/10/12	Time: 1640
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/11/12	Time: 0925
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/08 Revision

Custody Seal Intact?
Y N None Temp N/A
fedex

1210247

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 8 1

DATE: 10/10/12

PAGE: 3 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO Name, Company, Office Location: Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME #: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L.Rathnow, S. Jansen, C. Williams, C. Kretzer

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Moosheglan@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ 1A - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
20A	VMP-41-10-100912	10/09/12	1337-1410	37712	-29.5	-9			X	X	
21A	VMP-41-20-100912	10/09/12	1430-1500	9494	-29.5	-8.5			X	X	
22A	VMP-41-20-100912-DUP	10/09/12	1430-1500	9388	-29.5	-9.5			X	X	
23A	VMP-41-30-100912	10/09/12	1512-1542	15770	-30	-10.5			X	X	
24A	VMP-7-5-101012	10/10/12	1109-1142	30620	-30	-10			X	X	
25A	VMP-7-13.5-101012	10/10/12	1206-1250	30812	-30	-8			X	X	

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/10/12	Time: 1640
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/11/12	Time: 0825
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2005 Revision

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11/1/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210247B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/11/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner
Project Manager

Reviewed
on
11/5/2012

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WORK ORDER #: 1210247B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/11/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/01/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-13-5-100912	Modified ASTM D-1946	9.0 "Hg	15 psi
02A	VMP13-10.5-100912	Modified ASTM D-1946	5.5 "Hg	15 psi
03A	VMP-13-10.5-100912-DUP	Modified ASTM D-1946	9.5 "Hg	15 psi
04A	VMP-13-21.5-100912	Modified ASTM D-1946	10.0 "Hg	15 psi
05A	VMP-14-5-101012	Modified ASTM D-1946	9.0 "Hg	15 psi
06A	VMP-14-11.5-101012	Modified ASTM D-1946	8.0 "Hg	15 psi
07A	VMP-17-5-100912	Modified ASTM D-1946	10.0 "Hg	15 psi
08A	VMP-18-8.5-100912	Modified ASTM D-1946	7.0 "Hg	15 psi
09A	VMP-19-5-100912	Modified ASTM D-1946	9.5 "Hg	15 psi
10A(cancelled)	VMP-24-5-100912	Modified ASTM D-1946	3.5 "Hg	15 psi
11A	VMP-24-10-100912	Modified ASTM D-1946	7.0 "Hg	15 psi
12A	VMP-24-22-100912	Modified ASTM D-1946	7.5 "Hg	15 psi
13A	VMP-24-34-100912	Modified ASTM D-1946	8.0 "Hg	15 psi
14A	VMP-29-10-100812	Modified ASTM D-1946	8.5 "Hg	15 psi
15A	VMP-29-20-100812	Modified ASTM D-1946	8.5 "Hg	15 psi
16A	VMP-29-30-100812	Modified ASTM D-1946	9.5 "Hg	15 psi
17A	VMP-30-10-100812	Modified ASTM D-1946	8.5 "Hg	15 psi
18A	VMP-30-20-100812	Modified ASTM D-1946	9.0 "Hg	15 psi
19A	VMP-30-30-100812	Modified ASTM D-1946	9.0 "Hg	15 psi
20A	VMP-41-10-100912	Modified ASTM D-1946	9.5 "Hg	15 psi
21A	VMP-41-20-100912	Modified ASTM D-1946	9.0 "Hg	15 psi
22A	VMP-41-20-100912-DUP	Modified ASTM D-1946	9.5 "Hg	15 psi
23A	VMP-41-30-100912	Modified ASTM D-1946	10.5 "Hg	15 psi

Continued on next page

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WORK ORDER #: 1210247B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/11/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/01/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	VMP-7-5-101012	Modified ASTM D-1946	9.5 "Hg	15 psi
25A	VMP-7-13.5-101012	Modified ASTM D-1946	8.0 "Hg	15 psi
26A	Lab Blank	Modified ASTM D-1946	NA	NA
26B	Lab Blank	Modified ASTM D-1946	NA	NA
26C	Lab Blank	Modified ASTM D-1946	NA	NA
26D	Lab Blank	Modified ASTM D-1946	NA	NA
27A	LCS	Modified ASTM D-1946	NA	NA
27AA	LCSD	Modified ASTM D-1946	NA	NA
27B	LCS	Modified ASTM D-1946	NA	NA
27BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/01/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210247B

Twenty-five 1 Liter Summa Canister samples were received on October 11, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There was a significant difference (greater than 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) for sample VMP-24-5-100912. A leak test indicated that the valve was functioning properly.

Sample VMP-24-5-100912 was cancelled on 10/15/2012 per client request.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-13-5-100912

Lab ID#: 1210247B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	18
Nitrogen	0.37	79
Methane	0.00037	0.000091 J
Carbon Dioxide	0.037	2.8
Helium	0.18	0.034 J

Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	18
Nitrogen	0.25	78
Methane	0.00025	0.000085 J
Carbon Dioxide	0.025	3.4
Helium	0.12	0.025 J

Client Sample ID: VMP-13-10.5-100912-DUP

Lab ID#: 1210247B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.38	17
Nitrogen	0.38	79
Methane	0.00038	0.000066 J
Carbon Dioxide	0.038	3.6
Helium	0.19	0.023 J

Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	2.0
Nitrogen	0.30	83

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247B-04A

Methane	0.00030	0.0015
Carbon Dioxide	0.030	15
Helium	0.15	0.051

Client Sample ID: VMP-14-5-101012

Lab ID#: 1210247B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	21
Nitrogen	0.29	78
Methane	0.00029	0.000042 J
Carbon Dioxide	0.029	1.2
Helium	0.14	0.14

Client Sample ID: VMP-14-11.5-101012

Lab ID#: 1210247B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	74
Methane	0.00028	0.000072 J
Carbon Dioxide	0.028	6.7
Helium	0.14	0.022 J

Client Sample ID: VMP-17-5-100912

Lab ID#: 1210247B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	80
Methane	0.00030	0.000030 J
Carbon Dioxide	0.030	0.37
Helium	0.15	0.089

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19
Nitrogen	0.26	77
Methane	0.00026	0.000084 J
Carbon Dioxide	0.026	4.1
Helium	0.13	0.044

Client Sample ID: VMP-19-5-100912

Lab ID#: 1210247B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	79
Methane	0.00030	0.000068 J
Carbon Dioxide	0.030	0.51
Helium	0.15	0.040

Client Sample ID: VMP-24-10-100912

Lab ID#: 1210247B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	16
Nitrogen	0.26	78
Methane	0.00026	0.000072 J
Carbon Dioxide	0.026	6.3
Helium	0.13	0.070

Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	15
Nitrogen	0.27	77

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247B-12A

Methane	0.00027	0.000033 J
Carbon Dioxide	0.027	7.7
Helium	0.13	0.018 J

Client Sample ID: VMP-24-34-100912

Lab ID#: 1210247B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	77
Methane	0.00028	0.00017 J
Carbon Dioxide	0.028	6.7
Helium	0.14	0.025 J

Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	10
Nitrogen	0.28	82
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	8.5

Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.1
Nitrogen	0.28	81
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	9.5
Helium	0.14	0.018 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-29-30-100812

Lab ID#: 1210247B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	6.1
Nitrogen	0.30	82
Methane	0.00030	0.000021 J
Carbon Dioxide	0.030	12
Helium	0.15	0.026 J

Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Methane	0.00028	0.000049 J
Carbon Dioxide	0.028	2.5
Helium	0.14	0.028 J

Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	8.3
Nitrogen	0.29	81
Methane	0.00029	0.000089 J
Carbon Dioxide	0.029	11
Helium	0.14	0.036

Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247B-19A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	5.4
Nitrogen	0.29	81

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247B-19A

Methane	0.00029	0.00050
Carbon Dioxide	0.029	14

Client Sample ID: VMP-41-10-100912

Lab ID#: 1210247B-20A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	81
Methane	0.00030	0.000022 J
Carbon Dioxide	0.030	4.8
Helium	0.15	0.011 J

Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247B-21A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	81
Methane	0.00029	0.000027 J
Carbon Dioxide	0.029	6.5
Helium	0.14	0.53

Client Sample ID: VMP-41-20-100912-DUP

Lab ID#: 1210247B-22A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	12
Nitrogen	0.30	81
Methane	0.00030	0.000024 J
Carbon Dioxide	0.030	6.7
Helium	0.15	0.019 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247B-23A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	10
Nitrogen	0.31	81
Methane	0.00031	0.000058 J
Carbon Dioxide	0.031	8.6

Client Sample ID: VMP-7-5-101012

Lab ID#: 1210247B-24A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	80
Methane	0.00030	0.00011 J
Carbon Dioxide	0.030	0.23
Helium	0.15	0.032

Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247B-25A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	80
Methane	0.00028	0.000039 J
Carbon Dioxide	0.028	0.44
Helium	0.14	0.028

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Client Sample ID: VMP-13-5-100912

Lab ID#: 1210247B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102217**	**Date of Collection:**	**10/9/12 9:33:00 AM**
Dil. Factor:	**3.67**	**Date of Analysis:**	**10/22/12 03:50 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	18
Nitrogen	0.37	79
Carbon Monoxide	0.037	Not Detected
Methane	0.00037	0.000091 J
Carbon Dioxide	0.037	2.8
Ethane	0.0037	Not Detected
Ethene	0.0037	Not Detected
Helium	0.18	0.034 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP13-10.5-100912

Lab ID#: 1210247B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102110**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**10/21/12 11:04 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	18
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.000085 J
Carbon Dioxide	0.025	3.4
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	~~0.025 J~~ U

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-13-10.5-100912-DUP

Lab ID#: 1210247B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102218**	**Date of Collection:**	**10/9/12 10:25:00 AM**
Dil. Factor:	**3.82**	**Date of Analysis:**	**10/22/12 04:33 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.38	17
Nitrogen	0.38	79
Carbon Monoxide	0.038	Not Detected
Methane	0.00038	0.000066 J
Carbon Dioxide	0.038	3.6
Ethane	0.0038	Not Detected
Ethene	0.0038	Not Detected
Helium	0.19	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-13-21.5-100912

Lab ID#: 1210247B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102112**	**Date of Collection:**	**10/9/12 11:10:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/21/12 11:53 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	2.0
Nitrogen	0.30	83
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0015
Carbon Dioxide	0.030	15
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	~~0.051~~ U

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-14-5-101012

Lab ID#: 1210247B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102113**	**Date of Collection:**	**10/10/12 9:17:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/21/12 12:47 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	21
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000042 J
Carbon Dioxide	0.029	1.2
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.14

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-14-11.5-101012

Lab ID#: 1210247B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102114**	**Date of Collection:**	**10/10/12 10:06:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/21/12 01:11 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	74
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000072 J
Carbon Dioxide	0.028	6.7
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	~~0.022 J~~ in

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-17-5-100912

Lab ID#: 1210247B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102115**	**Date of Collection:**	**10/9/12 3:42:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/21/12 01:32 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.30	20
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000030 J
Carbon Dioxide	0.030	0.37
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.089

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-18-8.5-100912

Lab ID#: 1210247B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102116**	**Date of Collection:**	**10/9/12 2:30:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/21/12 01:55 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	19
Nitrogen	0.26	77
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000084 J
Carbon Dioxide	0.026	4.1
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	~~0.044~~ U

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-19-5-100912

Lab ID#: 1210247B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102111**	**Date of Collection: 10/9/12 1:29:00 PM**	
Dil. Factor:	**2.96**	**Date of Analysis: 10/21/12 11:30 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.30	20
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000068 J
Carbon Dioxide	0.030	0.51
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	~~0.040~~ U

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-24-10-100912

Lab ID#: 1210247B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102205**	**Date of Collection:**	**10/9/12 9:50:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/22/12 09:13 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	16
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000072 J
Carbon Dioxide	0.026	6.3
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.070

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-24-22-100912

Lab ID#: 1210247B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102206**	**Date of Collection: 10/9/12 10:37:00 AM**	
Dil. Factor:	**2.69**	**Date of Analysis: 10/22/12 09:48 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.27	15
Nitrogen	0.27	77
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.000033 J
Carbon Dioxide	0.027	7.7
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-24-34-100912

Lab ID#: 1210247B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102207**	**Date of Collection:**	**10/9/12 11:20:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 10:19 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	77
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00017 J
Carbon Dioxide	0.028	6.7
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.025 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-29-10-100812

Lab ID#: 1210247B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102208**	**Date of Collection:**	**10/8/12 1:39:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/22/12 10:50 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	10
Nitrogen	0.28	82
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	8.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-29-20-100812

Lab ID#: 1210247B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102209**	**Date of Collection:**	**10/8/12 2:29:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/22/12 11:25 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.1
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	9.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-29-30-100812

Lab ID#: 1210247B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102219**	**Date of Collection:**	**10/8/12 3:20:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/22/12 05:32 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	6.1
Nitrogen	0.30	82
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000021 J
Carbon Dioxide	0.030	12
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-30-10-100812

Lab ID#: 1210247B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102210**	**Date of Collection:**	**10/8/12 10:18:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/22/12 11:57 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000049 J
Carbon Dioxide	0.028	2.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-30-20-100812

Lab ID#: 1210247B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102220**	**Date of Collection: 10/8/12 11:11:00 AM**	
Dil. Factor:	**2.89**	**Date of Analysis: 10/22/12 05:57 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	8.3
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000089 J
Carbon Dioxide	0.029	11
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.036

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-30-30-100812

Lab ID#: 1210247B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102221**	**Date of Collection:**	**10/8/12 12:11:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/22/12 06:25 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	5.4
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00050
Carbon Dioxide	0.029	14
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-41-10-100912

Lab ID#: 1210247B-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102211**	**Date of Collection: 10/9/12 2:10:00 PM**	
Dil. Factor:	**2.96**	**Date of Analysis: 10/22/12 12:24 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000022 J
Carbon Dioxide	0.030	4.8
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.011 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-41-20-100912

Lab ID#: 1210247B-21A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102212**	**Date of Collection:**	**10/9/12 3:00:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/22/12 12:55 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000027 J
Carbon Dioxide	0.029	6.5
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.53

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-41-20-100912-DUP

Lab ID#: 1210247B-22A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102213**	**Date of Collection:**	**10/9/12 3:00:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/22/12 01:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	12
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000024 J
Carbon Dioxide	0.030	6.7
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-41-30-100912

Lab ID#: 1210247B-23A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102214**	**Date of Collection:**	**10/9/12 3:42:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/22/12 01:53 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	10
Nitrogen	0.31	81
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.000058 J
Carbon Dioxide	0.031	8.6
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-7-5-101012

Lab ID#: 1210247B-24A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102215**	**Date of Collection:**	**10/10/12 11:42:00 A**
Dil. Factor:	**2.98**	**Date of Analysis:**	**10/22/12 02:20 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00011 J
Carbon Dioxide	0.030	0.23
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.032

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-7-13.5-101012

Lab ID#: 1210247B-25A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102216**	**Date of Collection:**	**10/10/12 12:50:00 P**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 03:08 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000039 J
Carbon Dioxide	0.028	0.44
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.028

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210247B-26A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 08:58 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210247B-26B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102104b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 08:35 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	0.013 J

J = Estimated value.

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210247B-26C

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 08:33 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210247B-26D

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102203b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 08:07 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210247B-27A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 07:50 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	102
Methane	97
Carbon Dioxide	103
Ethane	98
Ethene	95
Helium	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210247B-27AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102122**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 04:25 PM**	

Compound	%Recovery
Oxygen	101
Nitrogen	101
Carbon Monoxide	96
Methane	98
Carbon Dioxide	106
Ethane	100
Ethene	97
Helium	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210247B-27B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 07:29 AM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	96
Methane	99
Carbon Dioxide	96
Ethane	101
Ethene	98
Helium	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210247B-27BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102225**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 08:52 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	97
Methane	100
Carbon Dioxide	106
Ethane	102
Ethene	99
Helium	102

Container Type: NA - Not Applicable

Shell Oil Products Chain Of Custody Record

1210247

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** **Lab Vendor #**	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&OM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO #	INCIDENT # (ENV SERVICES) 9 7 2 1 6 6 4 0 SAP # 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/10/12

PAGE ___1___ of _3___

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 000 SOUTH CENTRAL AVE -- ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO: 314-743-4179

EMAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L Rathnow, S. Jansen, C. Williams, C. Kretzer

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Conister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01A	VMP-13-5-100912	10/09/12	0903-0933	9453	-29.5	-9			X	X						
02A	VMP-13-10.5-100912	10/09/12	0952-1025	9378	-27.5	-6			X	X						
03A	VMP-13-10.5-100912-DUP	10/09/12	0952-1025	2050	-29	-10			X	X						
04A	VMP-13-21.5-100912	10/09/12	1040-1110	24389	-30	-9.5			X	X						
05A	VMP-14-5-101012	10/10/12	0845-0917	8021	-30	-9.5			X	X						
06A	VMP-14-11.5-101012	10/10/12	0936-1005	23830	-27	-8.5			X	X						
07A	VMP-17-5-100912	10/09/12	1510-1542	31786	-30	-11.5			X	X						
08A	VMP-18-8.5-100912	10/09/12	1358-1430	33408	-28.5	-7.5			X	X						
09A	VMP-19-5-100912	10/09/12	1259-1329	35687	-30	-10.5			X	X						
										dec C						

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/10/12	Time: 1640
Relinquished by: (Signature)	Received by: (Signature) 10/11/12	Date: 10/11/12	Time: 0925
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Custody Seal Intact? Y N None Temp N/A

06/206 Revision

Shell Oil Products Chain Of Custody Record

1210247

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER: _____

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 3 4 0 0 6 1
DATE: 10/10/12
PAGE: 2 of 3

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
CDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L.Rathnow, S. Jansen, C. Williams, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ COD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
10A	VMP-24-5-100912	10/09/12	0836-0908	33648	-30	-9.5			X	X						
11A	VMP-24-10-100912	10/09/12	0920-0950	37394	-28.5	-8			X	X						
12A	VMP-24-22-100912	10/09/12	1006-1037	35633	-30	-9			X	X						
13A	VMP-24-34-100912	10/09/12	1050-1120	30823	-30	-9			X	X						
14A	VMP-29-10-100812	10/08/12	1305-1339	37738	-29.5	-8			X	X						
15A	VMP-29-20-100812	10/08/12	1356-1429	8001	-30	-8.5			X	X						
16A	VMP-29-30-100812	10/08/12	1448-1520	36524	-29.5	-9.5			X	X						
17A	VMP-30-10-100812	10/08/12	0948-1018	34088	-29.5	-8			X	X						
18A	VMP-30-20-100812	10/08/12	1040-1111	36404	-30	-9			X	X						
19A	VMP-30-30-100812	10/08/12	1147-1211	3997	-29.5	-8.5			X	X						

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	FEDEX	10/10/12	1640
Relinquished by: (Signature)		10/11/12	0925
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/08 Revision

Custody Seal Intact?
Y N None Temp 1.4
fedex

Shell Oil Products Chain Of Custody Record

1210247

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO: #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/10/12
PAGE: 3 of 3

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
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GLOBAL ID NO.:
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Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-Mail: Robert.Mooshegian@urs.com
L.Rathnow, S. Jansen, C. Williams, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
20A	VMP-41-10-100912	10/09/12	1337-1410	37712	-29.5	-9			X	X	
21A	VMP-41-20-100912	10/09/12	1430-1500	9494	-29.5	-8.5			X	X	
22A	VMP-41-20-100912-DUP	10/09/12	1430-1500	9388	-29.5	-9.5			X	X	
23A	VMP-41-30-100912	10/09/12	1512-1542	15770	-30	-10.5			X	X	
24A	VMP-7-5-101012	10/10/12	1109-1142	30820	-30	-10			X	X	
25A	VMP-7-13.5-101012	10/10/12	1208-1250	30812	-30	-8			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/10/12	Time: 1640
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/11/12	Time: 0825
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210301A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/18/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-1-5-101112	VMP-1-8.5-101112
VMP-5-12.5-101112	VMP-5-31-101112
VMP-5-40-101112	VMP-6-5-101012
VMP-6-10-101112	VMP-6-31.5-101112
VMP-6-39-101112	VMP-7-29.5-101012
VMP-7-38-101112	VMP-9-5-101012
VMP-9-11.5-101012	VMP-9-25.5-101012
VMP-9-38.5-101012	-

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-1-5-101112 was diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Samples VMP-1-5-101112, VMP-6-39-101112, and VMP-9-38.5-101012 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. The TO-15 LCS/LCSD recovery for ethanol was outside evaluation criteria. The CCV recoveries for 1,4-dioxane and 2-hexanone were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form, however the COC was revised on October 24, 2012 to correct sample ID VMP-9-25.5-101012. Revised COC information was correctly used to report the results.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210301A-16A	TO-15	Carbon disulfide	0.38 ppbv / 1.2 µg/m^3
1210301A-16A	TO-15	Methylene chloride	0.10 ppbv / 0.36 µg/m^3
1210301A-16A	TO-15	Chlorobenzene	0.071 ppbv / 0.33 µg/m^3
1210301A-16A	TO-15	1,3-Dichlorobenzene	0.11 ppbv / 0.69 µg/m^3
1210301A-16A	TO-15	1,4-Dichlorobenzene	0.15 ppbv / 0.89 µg/m^3
1210301A-16A	TO-15	1,2,4-Trichlorobenzene	0.45 ppbv / 3.3 µg/m^3
1210301A-16A	TO-15	Hexachlorobutadiene	0.28 ppbv / 0.30 µg/m^3

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-1-8.5-101112	TO-15	Carbon disulfide	-	**U**
VMP-1-8.5-101112	TO-15	Methylene chloride	-	**U**
VMP-1-8.5-101112	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-1-8.5-101112	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-1-8.5-101112	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-5-12.5-101112	TO-15	Carbon disulfide	-	**U**
VMP-5-31-101112	TO-15	Carbon disulfide	-	**U**
VMP-5-40-101112	TO-15	Carbon disulfide	-	**U**
VMP-6-5-101012	TO-15	Carbon disulfide	-	**U**
VMP-6-5-101012	TO-15	Methylene choride	-	**U**
VMP-6-10-101112	TO-15	Carbon disulfide	-	**U**
VMP-6-10-101112	TO-15	Methylene chloride	-	**U**
VMP-6-31.5-101112	TO-15	Carbon disulfide	-	**U**
VMP-6-39-101112	TO-15	Carbon disulfide	-	**U**
VMP-7-29.5-101012	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-7.29.5-101012	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-7-38-101112	TO-15	Carbon disulfide	-	**U**
VMP-9-5-101012	TO-15	Carbon disulfide	-	**U**
VMP-9-11.5-101012	TO-15	Carbon disulfide	-	**U**
VMP-9-25.5-101012	TO-15	Carbon disulfide	-	**U**
VMP-9-25.5-101012	TO-15	Methylene chloride	-	**U**
VMP-9-38.5-101012	TO-15	Carbon disulfide	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210301A-18A	TO-15	Ethanol	**63/64**	2	70-130/25

Analytical data that required qualification based on LCS data are included in the table below.

Sample ID	Parameter	Analyte	Qualification
VMP-1-5-101112	TO-15	Ethanol	**J**
VMP-1-8.5-101112	TO-15	Ethanol	**J**
VMP-5-12.5-101112	TO-15	Ethanol	**J**
VMP-5-31-101112	TO-15	Ethanol	**J**
VMP-5-40-101112	TO-15	Ethanol	**J**
VMP-6-5-101012	TO-15	Ethanol	**J**
VMP-6-10-101112	TO-15	Ethanol	**J**
VMP-6-31.5-101112	TO-15	Ethanol	**J**
VMP-6-39-101112	TO-15	Ethanol	**UJ**
VMP-7-29.5-101012	TO-15	Ethanol	**J**
VMP-7-38-101112	TO-15	Ethanol	**J**
VMP-9-5-101012	TO-15	Ethanol	**J**
VMP-9-11.5-101012	TO-15	Ethanol	**J**
VMP-9-25.5-101012	TO-15	Ethanol	**J**
VMP-9-38.5-101012	TO-15	Ethanol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, the CCV percent recovery for 1,4-dioxane and 2-hexanaone was outside evaluation criteria as summarized in the table below.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1210301A-17A	TO-15	1,4-Dioxane	**61**	70-130
1210301A-17A	TO-15	2-Hexanone	**66**	70-130

Data requiring qualification based on CCV recoveries are summarized in the following table.

Sample ID	Parameter	Analyte	Qualification
VMP-1-5-101112	TO-15	1,4-Dioxane	**UJ**
VMP-1-5-101112	TO-15	2-Hexanone	**UJ**
VMP-1-8.5-101112	TO-15	1,4-Dioxane	**UJ**
VMP-1-8.5-101112	TO-15	2-Hexanone	**UJ**
VMP-5-12.5-101112	TO-15	1,4-Dioxane	**UJ**
VMP-5-12.5-101112	TO-15	2-Hexanone	**UJ**
VMP-5-31-101112	TO-15	1,4-Dioxane	**UJ**
VMP-5-31-101112	TO-15	2-Hexanone	**UJ**
VMP-5-40-101112	TO-15	1,4-Dioxane	**UJ**
VMP-5-40-101112	TO-15	2-Hexanone	**UJ**
VMP-6-5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-6-5-101012	TO-15	2-Hexanone	**UJ**
VMP-6-10-101112	TO-15	1,4-Dioxane	**UJ**
VMP-6-10-101112	TO-15	2-Hexanone	**UJ**
VMP-6-31.5-101112	TO-15	1,4-Dioxane	**UJ**
VMP-6-31.5-101112	TO-15	2-Hexanone	**UJ**
VMP-6-39-101112	TO-15	1,4-Dioxane	**UJ**
VMP-6-39-101112	TO-15	2-Hexanone	**UJ**
VMP-7-29.5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-7-29.5-101012	TO-15	2-Hexanone	**UJ**
VMP-7-38-101112	TO-15	1,4-Dioxane	**UJ**
VMP-7-38-101112	TO-15	2-Hexanone	**UJ**
VMP-9-5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-9-5-101012	TO-15	2-Hexanone	**UJ**
VMP-9-11.5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-9-11.5-101012	TO-15	2-Hexanone	**UJ**
VMP-9-25.5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-9-25.5-101012	TO-15	2-Hexanone	**UJ**
VMP-9-38.5-101012	TO-15	1,4-Dioxane	**UJ**
VMP-9-38.5-101012	TO-15	2-Hexanone	**UJ**

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10/30/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #:
Workorder #: 1210301A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/15/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/18/12

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WORK ORDER #: 1210301A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	Roxana Soil Vapor
DATE RECEIVED:	10/15/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/30/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-5-101112	Modified TO-15	8.0 "Hg	15 psi
01B	VMP-1-5-101112	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-1-8.5-101112	Modified TO-15	8.5 "Hg	15 psi
03A	VMP-5-12.5-101112	Modified TO-15	5.0 "Hg	15 psi
04A	VMP-5-31-101112	Modified TO-15	8.5 "Hg	15 psi
05A	VMP-5-40-101112	Modified TO-15	9.5 "Hg	15 psi
06A	VMP-6-5-101012	Modified TO-15	8.0 "Hg	15 psi
07A	VMP-6-10-101112	Modified TO-15	9.0 "Hg	15 psi
08A	VMP-6-31.5-101112	Modified TO-15	8.5 "Hg	15 psi
09A	VMP-6-39-101112	Modified TO-15	7.5 "Hg	15 psi
10A	VMP-7-29.5-101012	Modified TO-15	9.0 "Hg	15 psi
11A	VMP-7-38-101112	Modified TO-15	7.5 "Hg	15 psi
12A	VMP-9-5-101012	Modified TO-15	9.0 "Hg	15 psi
13A	VMP-9-11.5-101012	Modified TO-15	8.0 "Hg	15 psi
14A	VMP-9-25.5-101012	Modified TO-15	7.0 "Hg	15 psi
15A	VMP-9-38.5-101012	Modified TO-15	8.0 "Hg	15 psi
16A	Lab Blank	Modified TO-15	NA	NA
17A	CCV	Modified TO-15	NA	NA
18A	LCS	Modified TO-15	NA	NA
18AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Mayes DATE: 10/30/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210301A

Fifteen 1 Liter Summa Canister samples were received on October 15, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to high-level target compounds, sample VMP-1-5-101112 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Dilution was performed on samples VMP-1-5-101112, VMP-6-39-101112, and VMP-9-38.5-101012 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-1-5-101112 *Use these results only. All other data was reported from the 4.60x dilution analysis.

Lab ID#: 1210301A-01A

DF = 9.20

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	46	12 J	110	28 J
Carbon Disulfide	18	2.6 J	57	8.1 J
Methylene Chloride	46	0.65 J	160	2.2 J
Hexane	4.6	42	16	150
Cyclohexane	4.6	34	16	120
2,2,4-Trimethylpentane	4.6	240	21	1100
Heptane	4.6	5.2	19	21
* Butane	18	1100	44	2700
* Isopentane	18	1600	54	4800

Client Sample ID: VMP-1-5-101112 * Do not use this data. Use all other data.

Lab ID#: 1210301A-01B

DF = 4.60

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	0.51 J	11	2.5 J
Ethanol	9.2	1.7 J J	17	3.3 J J
Acetone	23	12 J	55	28 J
Carbon Disulfide	9.2	2.4 J	29	7.6 J
Methylene Chloride	23	0.71 J	80	2.5 J
Hexane	2.3	46	8.1	160
Cyclohexane	2.3	38	7.9	130
2,2,4-Trimethylpentane	2.3	260	11	1200
Heptane	2.3	5.2	9.4	21
Toluene	2.3	0.38 J	8.7	1.4 J
m,p-Xylene	2.3	0.80 J	10	3.4 J
* ~~Butane~~	~~9.2~~	~~1200 E~~	~~22~~	~~2800 E~~
* ~~Isopentane~~	~~9.2~~	~~1700 E~~	~~27~~	~~5000 E~~

Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.0	2.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301A-02A

Freon 11	1.4	0.24 J	7.9	1.4 J
Ethanol	5.6	1.4 J J	11	2.6 J J
Acetone	14	2.8 J	33	6.6 J
2-Propanol	5.6	0.51 J	14	1.2 J
Carbon Disulfide	5.6	~~1.5 J~~ U	18	~~4.6 J~~ U
Methylene Chloride	14	~~0.50 J~~ U	49	~~1.7 J~~ U
Hexane	1.4	41	5.0	140
Cyclohexane	1.4	21	4.8	73
2,2,4-Trimethylpentane	1.4	170	6.6	820
Benzene	1.4	1.2 J	4.5	3.7 J
Heptane	1.4	33	5.8	140
Toluene	1.4	0.37 J	5.3	1.4 J
1,3-Dichlorobenzene	1.4	~~0.22 J~~ U	8.5	~~1.3 J~~ U
1,4-Dichlorobenzene	1.4	~~0.24 J~~ U	8.5	~~1.4 J~~ U
1,2,4-Trichlorobenzene	5.6	~~0.50 J~~ U	42	~~3.7 J~~ U
Butane	5.6	29	13	70
Isopentane	5.6	74	17	220

Client Sample ID: VMP-5-12.5-101112

Lab ID#: 1210301A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.4	0.44 J	12	2.2 J
Ethanol	9.8	8.0 J J	18	15 J J
Acetone	24	8.6 J	58	20 J
2-Propanol	9.8	5.0 J	24	12 J
Carbon Disulfide	9.8	~~1.6 J~~ U	30	~~5.1 J~~ U
Methylene Chloride	24	1.4 J	85	4.7 J
Hexane	2.4	0.46 J	8.6	1.6 J
2,2,4-Trimethylpentane	2.4	1.9 J	11	9.0 J
Benzene	2.4	4.6	7.8	15
4-Methyl-2-pentanone	2.4	0.81 J	10	3.3 J
Toluene	2.4	1.4 J	9.2	5.4 J
Tetrachloroethene	2.4	0.26 J	16	1.8 J
Isopentane	9.8	3.8 J	29	11 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	7.0	2.3 J
Freon 11	1.4	0.23 J	7.9	1.3 J
Ethanol	5.6	2.9 J J	11	5.5 J J
Acetone	14	35	33	82
2-Propanol	5.6	1.1 J	14	2.7 J
Carbon Disulfide	5.6	~~1.6 J~~ U	18	~~4.8 J~~ U
Methylene Chloride	14	0.69 J	49	2.4 J
Hexane	1.4	4.2	5.0	15
2-Butanone (Methyl Ethyl Ketone)	5.6	1.4 J	17	4.2 J
Chloroform	1.4	2.1	6.9	10
Cyclohexane	1.4	1.2 J	4.8	4.1 J
2,2,4-Trimethylpentane	1.4	10	6.6	48
Benzene	1.4	2.4	4.5	7.8
Heptane	1.4	0.95 J	5.8	3.9 J
Toluene	1.4	1.1 J	5.3	4.2 J
Butane	5.6	32	13	75
Isopentane	5.6	43	17	130

Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.43 J	7.3	2.1 J
Freon 11	1.5	0.47 J	8.3	2.7 J
Ethanol	5.9	4.0 J J	11	7.5 J J
Acetone	15	12 J	35	28 J
2-Propanol	5.9	3.3 J	14	8.1 J
Carbon Disulfide	5.9	~~1.2 J~~ U	18	~~3.8 J~~ U
Methylene Chloride	15	1.4 J	51	4.9 J
Hexane	1.5	2.2	5.2	7.6
Chloroform	1.5	5.2	7.2	25
Cyclohexane	1.5	0.88 J	5.1	3.0 J
2,2,4-Trimethylpentane	1.5	240	6.9	1100

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301A-05A

Benzene	1.5	3.6	4.7	11
Heptane	1.5	0.75 J	6.1	3.1 J
4-Methyl-2-pentanone	1.5	3.4	6.1	14
Toluene	1.5	1.2 J	5.6	4.6 J
Tetrachloroethene	1.5	0.23 J	10	1.6 J
Cumene	1.5	0.34 J	7.3	1.7 J
Butane	5.9	110	14	270
Isopentane	5.9	400	17	1200

Client Sample ID: VMP-6-5-101012

Lab ID#: 1210301A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	6.8	2.2 J
Freon 11	1.4	0.16 J	7.8	0.89 J
Ethanol	5.5	1.5 J J	10	2.8 J J
Acetone	14	17	33	41
2-Propanol	5.5	4.7 J	14	12 J
Carbon Disulfide	5.5	~~1.1 J~~ U	17	~~3.5 J~~ U
Methylene Chloride	14	~~0.39 J~~ U	48	~~1.4 J~~ U
2,2,4-Trimethylpentane	1.4	3.6	6.4	16
Benzene	1.4	0.95 J	4.4	3.0 J
Toluene	1.4	0.20 J	5.2	0.77 J
Isopentane	5.5	0.84 J	16	2.5 J

Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.1	2.5 J
Freon 11	1.4	0.27 J	8.1	1.5 J
Ethanol	5.8	2.0 J J	11	3.7 J J
Acetone	14	3.6 J	34	8.5 J
2-Propanol	5.8	1.5 J	14	3.7 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301A-07A

Carbon Disulfide	5.8	~~0.93 J~~ U	18	~~2.9 J~~ U
Methylene Chloride	14	~~0.40 J~~ U	50	~~1.4 J~~ U
Hexane	1.4	0.62 J	5.1	2.2 J
Cyclohexane	1.4	0.74 J	5.0	2.5 J
2,2,4-Trimethylpentane	1.4	9.2	6.8	43
Benzene	1.4	2.1	4.6	6.6
Heptane	1.4	0.65 J	5.9	2.6 J
Toluene	1.4	0.72 J	5.4	2.7 J
Isopentane	5.8	1.9 J	17	5.7 J

Client Sample ID: VMP-6-31.5-101112

Lab ID#: 1210301A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.0	2.5 J
Freon 11	1.4	0.37 J	7.9	2.1 J
Ethanol	5.6	3.9 J J	11	7.3 J J
Acetone	14	6.0 J	33	14 J
2-Propanol	5.6	2.4 J	14	5.9 J
Carbon Disulfide	5.6	~~1.4 J~~	18	~~4.5 J~~
Methylene Chloride	14	0.80 J	49	2.8 J
Hexane	1.4	0.48 J	5.0	1.7 J
Chloroform	1.4	0.96 J	6.9	4.7 J
Cyclohexane	1.4	0.52 J	4.8	1.8 J
2,2,4-Trimethylpentane	1.4	150	6.6	710
Benzene	1.4	1.5	4.5	4.9
Trichloroethene	1.4	1.0 J	7.6	5.5 J
4-Methyl-2-pentanone	1.4	0.60 J	5.8	2.4 J
Toluene	1.4	0.43 J	5.3	1.6 J
Butane	5.6	7.7	13	18
Isopentane	5.6	3.2 J	17	9.4 J

Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301A-09A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	0.56 J	13	2.8 J
Acetone	27	12 J	64	30 J
2-Propanol	11	2.9 J	26	7.1 J
Carbon Disulfide	11	~~1.7 J~~ U	34	~~5.4 J~~ U
Methylene Chloride	27	0.93 J	93	3.2 J
Hexane	2.7	0.60 J	9.5	2.1 J
Cyclohexane	2.7	0.92 J	9.2	3.2 J
2,2,4-Trimethylpentane	2.7	1000	12	4900
Benzene	2.7	2.6 J	8.6	8.2 J
Toluene	2.7	0.93 J	10	3.5 J
Isopentane	11	2.0 J	32	5.9 J

Client Sample ID: VMP-7-29.5-101012

Lab ID#: 1210301A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	7.1	2.3 J
Freon 11	1.4	0.24 J	8.1	1.4 J
Ethanol	5.8	4.0 J J	11	7.6 J J
Acetone	14	27	34	64
2-Propanol	5.8	1.1 J	14	2.6 J
Carbon Disulfide	5.8	3.0 J	18	9.3 J
Methylene Chloride	14	0.66 J	50	2.3 J
Hexane	1.4	0.84 J	5.1	2.9 J
2-Butanone (Methyl Ethyl Ketone)	5.8	1.0 J	17	3.1 J
2,2,4-Trimethylpentane	1.4	2.8	6.8	13
Benzene	1.4	3.1	4.6	9.8
Toluene	1.4	0.35 J	5.4	1.3 J
trans-1,3-Dichloropropene	1.4	0.38 J	6.6	1.7 J
1,4-Dichlorobenzene	1.4	~~0.27 J~~ U	8.7	~~1.6 J~~ U
1,2,4-Trichlorobenzene	5.8	~~0.40 J~~ U	43	~~3.0 J~~ U
Butane	5.8	2.2 J	14	5.2 J
Isopentane	5.8	1.9 J	17	5.7 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.55 J	6.6	2.7 J
Freon 11	1.3	0.20 J	7.6	1.1 J
Ethanol	5.4	3.2 J J	10	6.0 J J
Acetone	13	8.9 J	32	21 J
2-Propanol	5.4	1.6 J	13	3.9 J
Carbon Disulfide	5.4	~~1.6 J~~ U	17	~~5.1 J~~ U
Methylene Chloride	13	0.58 J	47	2.0 J
Hexane	1.3	0.48 J	4.7	1.7 J
2,2,4-Trimethylpentane	1.3	2.4	6.3	11
Benzene	1.3	3.9	4.3	12
4-Methyl-2-pentanone	1.3	0.73 J	5.5	3.0 J
Toluene	1.3	0.57 J	5.1	2.2 J
Isopentane	5.4	1.1 J	16	3.3 J

Client Sample ID: VMP-9-5-101012

Lab ID#: 1210301A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.1	2.5 J
Freon 11	1.4	0.25 J	8.1	1.4 J
Ethanol	5.8	1.3 J J	11	2.5 J J
Acetone	14	11 J	34	26 J
2-Propanol	5.8	1.6 J	14	3.9 J
Carbon Disulfide	5.8	~~1.1 J~~ U	18	~~3.6 J~~ U
Methylene Chloride	14	0.84 J	50	2.9 J
2,2,4-Trimethylpentane	1.4	3.4	6.8	16
Benzene	1.4	1.1 J	4.6	3.7 J
Toluene	1.4	0.13 J	5.4	0.50 J
Isopentane	5.8	0.71 J	17	2.1 J

Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301A-13A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	6.8	2.8 J
Freon 11	1.4	0.28 J	7.8	1.6 J
Ethanol	5.5	5.8 J	10	11 J
Acetone	14	21	33	51
2-Propanol	5.5	26	14	63
Carbon Disulfide	5.5	~~1.2 J~~ U	17	~~3.8 J~~ U
Methylene Chloride	14	0.65 J	48	2.2 J
Hexane	1.4	0.60 J	4.9	2.1 J
Tetrahydrofuran	1.4	0.46 J	4.1	1.4 J
Chloroform	1.4	0.97 J	6.7	4.8 J
Cyclohexane	1.4	0.60 J	4.8	2.1 J
2,2,4-Trimethylpentane	1.4	7.3	6.4	34
Benzene	1.4	2.0	4.4	6.6
Heptane	1.4	0.50 J	5.6	2.1 J
Toluene	1.4	0.81 J	5.2	3.1 J
Ethyl Benzene	1.4	0.25 J	6.0	1.1 J
m,p-Xylene	1.4	0.37 J	6.0	1.6 J
Isopentane	5.5	2.4 J	16	7.1 J

Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.5	2.7 J
Freon 11	1.3	0.27 J	7.4	1.5 J
Ethanol	5.3	2.3 J J	9.9	4.3 J J
Acetone	13	8.0 J	31	19 J
2-Propanol	5.3	3.5 J	13	8.7 J
Carbon Disulfide	5.3	~~1.0 J~~ U	16	~~3.2 J~~ U
Methylene Chloride	13	~~0.52 J~~ U	46	~~1.8 J~~ U
Chloroform	1.3	3.1	6.4	15
2,2,4-Trimethylpentane	1.3	1.7	6.2	8.1
Benzene	1.3	1.6	4.2	5.0

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301A-14A

Toluene	1.3	0.32 J	5.0	1.2 J

Client Sample ID: VMP-9-38.5-101012

Lab ID#: 1210301A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	39	8.1 J	94	19 J
2-Propanol	16	1.6 J	39	4.0 J
Carbon Disulfide	16	~~1.6 J~~ U	49	~~5.0 J~~ U
Hexane	3.9	1.5 J	14	5.2 J
Cyclohexane	3.9	6.0	14	20
2,2,4-Trimethylpentane	3.9	1000	18	4800
Benzene	3.9	380	12	1200
Toluene	3.9	0.61 J	15	2.3 J
Butane	16	98	37	230
Isopentane	16	880	46	2600

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Use these results only. All other data was reported from the 460x dilution analysis.

Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101824**	**Date of Collection:**	**10/11/12 2:44:00 PM**
Dil. Factor:	**9.20**	**Date of Analysis:**	**10/18/12 08:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.6	Not Detected	23	Not Detected
Freon 114	4.6	Not Detected	32	Not Detected
Chloromethane	46	Not Detected	95	Not Detected
Vinyl Chloride	4.6	Not Detected	12	Not Detected
1,3-Butadiene	4.6	Not Detected	10	Not Detected
Bromomethane	46	Not Detected	180	Not Detected
Chloroethane	18	Not Detected	48	Not Detected
Freon 11	4.6	Not Detected	26	Not Detected
Ethanol	18	Not Detected	35	Not Detected
Freon 113	4.6	Not Detected	35	Not Detected
1,1-Dichloroethene	4.6	Not Detected	18	Not Detected
Acetone	46	12 J	110	28 J
2-Propanol	18	Not Detected	45	Not Detected
Carbon Disulfide	18	2.6 J	57	8.1 J
3-Chloropropene	18	Not Detected	58	Not Detected
Methylene Chloride	46	0.65 J	160	2.2 J
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	4.6	Not Detected	18	Not Detected
Hexane	4.6	42	16	150
1,1-Dichloroethane	4.6	Not Detected	19	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18	Not Detected	54	Not Detected
cis-1,2-Dichloroethene	4.6	Not Detected	18	Not Detected
Tetrahydrofuran	4.6	Not Detected	14	Not Detected
Chloroform	4.6	Not Detected	22	Not Detected
1,1,1-Trichloroethane	4.6	Not Detected	25	Not Detected
Cyclohexane	4.6	34	16	120
Carbon Tetrachloride	4.6	Not Detected	29	Not Detected
2,2,4-Trimethylpentane	4.6	240	21	1100
Benzene	4.6	Not Detected	15	Not Detected
1,2-Dichloroethane	4.6	Not Detected	19	Not Detected
Heptane	4.6	5.2	19	21
Trichloroethene	4.6	Not Detected	25	Not Detected
1,2-Dichloropropane	4.6	Not Detected	21	Not Detected
1,4-Dioxane	18	Not Detected UJ	66	Not Detected UJ
Bromodichloromethane	4.6	Not Detected	31	Not Detected
cis-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
4-Methyl-2-pentanone	4.6	Not Detected	19	Not Detected
Toluene	4.6	Not Detected	17	Not Detected
trans-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
1,1,2-Trichloroethane	4.6	Not Detected	25	Not Detected
Tetrachloroethene	4.6	Not Detected	31	Not Detected
2-Hexanone	18	Not Detected UJ	75	Not Detected UJ

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Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101824**	**Date of Collection:**	**10/11/12 2:44:00 PM**
Dil. Factor:	**9.20**	**Date of Analysis:**	**10/18/12 08:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	4.6	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	4.6	Not Detected	35	Not Detected
Chlorobenzene	4.6	Not Detected	21	Not Detected
Ethyl Benzene	4.6	Not Detected	20	Not Detected
m,p-Xylene	4.6	Not Detected	20	Not Detected
o-Xylene	4.6	Not Detected	20	Not Detected
Styrene	4.6	Not Detected	20	Not Detected
Bromoform	4.6	Not Detected	48	Not Detected
Cumene	4.6	Not Detected	23	Not Detected
1,1,2,2-Tetrachloroethane	4.6	Not Detected	32	Not Detected
Propylbenzene	4.6	Not Detected	23	Not Detected
4-Ethyltoluene	4.6	Not Detected	23	Not Detected
1,3,5-Trimethylbenzene	4.6	Not Detected	23	Not Detected
1,2,4-Trimethylbenzene	4.6	Not Detected	23	Not Detected
1,3-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,4-Dichlorobenzene	4.6	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.6	Not Detected	24	Not Detected
1,2-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	18	Not Detected	140	Not Detected
Hexachlorobutadiene	18	Not Detected	200	Not Detected
Butane	18	1100	44	2700
Isopentane	18	1600	54	4800

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301A-01B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101826**	**Date of Collection:**	**10/11/12 2:44:00 PM**
Dil. Factor:	**4.60**	**Date of Analysis:**	**10/18/12 10:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	0.51 J	11	2.5 J
Freon 114	2.3	Not Detected	16	Not Detected
Chloromethane	23	Not Detected	47	Not Detected
Vinyl Chloride	2.3	Not Detected	5.9	Not Detected
1,3-Butadiene	2.3	Not Detected	5.1	Not Detected
Bromomethane	23	Not Detected	89	Not Detected
Chloroethane	9.2	Not Detected	24	Not Detected
Freon 11	2.3	Not Detected	13	Not Detected
Ethanol	9.2	1.7 J ~~J~~ (J)	17	3.3 J J
Freon 113	2.3	Not Detected	18	Not Detected
1,1-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Acetone	23	12 J	55	28 J
2-Propanol	9.2	Not Detected	23	Not Detected
Carbon Disulfide	9.2	2.4 J	29	7.6 J
3-Chloropropene	9.2	Not Detected	29	Not Detected
Methylene Chloride	23	0.71 J	80	2.5 J
Methyl tert-butyl ether	2.3	Not Detected	8.3	Not Detected
trans-1,2-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Hexane	2.3	46	8.1	160
1,1-Dichloroethane	2.3	Not Detected	9.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.2	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Tetrahydrofuran	2.3	Not Detected	6.8	Not Detected
Chloroform	2.3	Not Detected	11	Not Detected
1,1,1-Trichloroethane	2.3	Not Detected	12	Not Detected
Cyclohexane	2.3	38	7.9	130
Carbon Tetrachloride	2.3	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	2.3	260	11	1200
Benzene	2.3	Not Detected	7.3	Not Detected
1,2-Dichloroethane	2.3	Not Detected	9.3	Not Detected
Heptane	2.3	5.2	9.4	21
Trichloroethene	2.3	Not Detected	12	Not Detected
1,2-Dichloropropane	2.3	Not Detected	11	Not Detected
1,4-Dioxane	9.2	Not Detected UJ UJ	33	Not Detected UJ UJ
Bromodichloromethane	2.3	Not Detected	15	Not Detected
cis-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
4-Methyl-2-pentanone	2.3	Not Detected	9.4	Not Detected
Toluene	2.3	0.38 J	8.7	1.4 J
trans-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.3	Not Detected	12	Not Detected
Tetrachloroethene	2.3	Not Detected	16	Not Detected
2-Hexanone	9.2	Not Detected UJ UJ	38	Not Detected UJ UJ

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Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301A-01B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101826**	**Date of Collection:**	**10/11/12 2:44:00 PM**
Dil. Factor:	**4.60**	**Date of Analysis:**	**10/18/12 10:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.3	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	2.3	Not Detected	18	Not Detected
Chlorobenzene	2.3	Not Detected	10	Not Detected
Ethyl Benzene	2.3	Not Detected	10	Not Detected
m,p-Xylene	2.3	0.80 J	10	3.4 J
o-Xylene	2.3	Not Detected	10	Not Detected
Styrene	2.3	Not Detected	9.8	Not Detected
Bromoform	2.3	Not Detected	24	Not Detected
Cumene	2.3	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.3	Not Detected	16	Not Detected
Propylbenzene	2.3	Not Detected	11	Not Detected
4-Ethyltoluene	2.3	Not Detected	11	Not Detected
1,3,5-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.3	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.3	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	9.2	Not Detected	68	Not Detected
Hexachlorobutadiene	9.2	Not Detected	98	Not Detected
~~Butane~~	~~9.2~~	~~1200 E~~	~~22~~	~~2800 E~~
~~Isopentane~~	~~9.2~~	~~1700 E~~	~~27~~	~~5000 E~~

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	125	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101809**	**Date of Collection:**	**10/11/12 3:31:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 12:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.0	2.1 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.24 J	7.9	1.4 J
Ethanol	5.6	1.4 J J	11	2.6 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	2.8 J	33	6.6 J
2-Propanol	5.6	0.51 J	14	1.2 J
Carbon Disulfide	5.6	~~1.5 J~~ U	18	~~4.6 J~~ U
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.50 J~~ U	49	~~1.7 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	41	5.0	140
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	21	4.8	73
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	170	6.6	820
Benzene	1.4	1.2 J	4.5	3.7 J
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	33	5.8	140
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected UJ UJ	20	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	0.37 J	5.3	1.4 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected
2-Hexanone	5.6	Not Detected UJ UJ	23	Not Detected UJ UJ

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Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101809**	**Date of Collection:**	**10/11/12 3:31:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 12:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	~~0.22 J~~ UJ	8.5	~~1.3 J~~ UJ
1,4-Dichlorobenzene	1.4	~~0.24 J~~ UJ	8.5	~~1.4 J~~ UJ
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	~~0.50 J~~ UJ	42	~~3.7 J~~ UJ
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	29	13	70
Isopentane	5.6	74	17	220

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-5-12.5-101112

Lab ID#: 1210301A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101811**	**Date of Collection:**	**10/11/12 12:01:00 P**
Dil. Factor:	**4.89**	**Date of Analysis:**	**10/18/12 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.4	0.44 J	12	2.2 J
Freon 114	2.4	Not Detected	17	Not Detected
Chloromethane	24	Not Detected	50	Not Detected
Vinyl Chloride	2.4	Not Detected	6.2	Not Detected
1,3-Butadiene	2.4	Not Detected	5.4	Not Detected
Bromomethane	24	Not Detected	95	Not Detected
Chloroethane	9.8	Not Detected	26	Not Detected
Freon 11	2.4	Not Detected	14	Not Detected
Ethanol	9.8	8.0 J J	18	15 J J
Freon 113	2.4	Not Detected	19	Not Detected
1,1-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Acetone	24	8.6 J	58	20 J
2-Propanol	9.8	5.0 J	24	12 J
Carbon Disulfide	9.8	~~1.6 J~~ U	30	~~5.1 J~~ U
3-Chloropropene	9.8	Not Detected	31	Not Detected
Methylene Chloride	24	1.4 J	85	4.7 J
Methyl tert-butyl ether	2.4	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Hexane	2.4	0.46 J	8.6	1.6 J
1,1-Dichloroethane	2.4	Not Detected	9.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.8	Not Detected	29	Not Detected
cis-1,2-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Tetrahydrofuran	2.4	Not Detected	7.2	Not Detected
Chloroform	2.4	Not Detected	12	Not Detected
1,1,1-Trichloroethane	2.4	Not Detected	13	Not Detected
Cyclohexane	2.4	Not Detected	8.4	Not Detected
Carbon Tetrachloride	2.4	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	2.4	1.9 J	11	9.0 J
Benzene	2.4	4.6	7.8	15
1,2-Dichloroethane	2.4	Not Detected	9.9	Not Detected
Heptane	2.4	Not Detected	10	Not Detected
Trichloroethene	2.4	Not Detected	13	Not Detected
1,2-Dichloropropane	2.4	Not Detected	11	Not Detected
1,4-Dioxane	9.8	Not Detected UJ UJ	35	Not Detected UJ UJ
Bromodichloromethane	2.4	Not Detected	16	Not Detected
cis-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.4	0.81 J	10	3.3 J
Toluene	2.4	1.4 J	9.2	5.4 J
trans-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.4	Not Detected	13	Not Detected
Tetrachloroethene	2.4	0.26 J	16	1.8 J
2-Hexanone	9.8	Not Detected UJ UJ	40	Not Detected UJ UJ

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Client Sample ID: VMP-5-12.5-101112

Lab ID#: 1210301A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101811**	**Date of Collection:**	**10/11/12 12:01:00 P**
Dil. Factor:	**4.89**	**Date of Analysis:**	**10/18/12 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.4	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.4	Not Detected	19	Not Detected
Chlorobenzene	2.4	Not Detected	11	Not Detected
Ethyl Benzene	2.4	Not Detected	11	Not Detected
m,p-Xylene	2.4	Not Detected	11	Not Detected
o-Xylene	2.4	Not Detected	11	Not Detected
Styrene	2.4	Not Detected	10	Not Detected
Bromoform	2.4	Not Detected	25	Not Detected
Cumene	2.4	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	2.4	Not Detected	17	Not Detected
Propylbenzene	2.4	Not Detected	12	Not Detected
4-Ethyltoluene	2.4	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.4	Not Detected	15	Not Detected
1,4-Dichlorobenzene	2.4	Not Detected	15	Not Detected
alpha-Chlorotoluene	2.4	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.4	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	9.8	Not Detected	72	Not Detected
Hexachlorobutadiene	9.8	Not Detected	100	Not Detected
Butane	9.8	Not Detected	23	Not Detected
Isopentane	9.8	3.8 J	29	11 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101810**	**Date of Collection:**	**10/11/12 2:30:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 01:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	7.0	2.3 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.23 J	7.9	1.3 J
Ethanol	5.6	2.9 J J	11	5.5 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	35	33	82
2-Propanol	5.6	1.1 J	14	2.7 J
Carbon Disulfide	5.6	~~1.6 J~~ u	18	~~4.8 J~~ u
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	0.69 J	49	2.4 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	4.2	5.0	15
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	1.4 J	17	4.2 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	2.1	6.9	10
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	1.2 J	4.8	4.1 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	10	6.6	48
Benzene	1.4	2.4	4.5	7.8
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	0.95 J	5.8	3.9 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected UJ uJ	20	Not Detected UJ uJ
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	1.1 J	5.3	4.2 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected
2-Hexanone	5.6	Not Detected UJ uJ	23	Not Detected UJ uJ

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Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101810**	**Date of Collection:**	**10/11/12 2:30:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 01:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	32	13	75
Isopentane	5.6	43	17	130

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101812**	**Date of Collection:**	**10/11/12 3:22:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/18/12 02:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.43 J	7.3	2.1 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.47 J	8.3	2.7 J
Ethanol	5.9	4.0 J J	11	7.5 J J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	12 J	35	28 J
2-Propanol	5.9	3.3 J	14	8.1 J
Carbon Disulfide	5.9	~~1.2 J~~ U	18	~~3.6 J~~ U
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	1.4 J	51	4.9 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	2.2	5.2	7.6
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	5.2	7.2	25
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	0.88 J	5.1	3.0 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	240	6.9	1100
Benzene	1.5	3.6	4.7	11
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	0.75 J	6.1	3.1 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected UJ	21	Not Detected UJ
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	3.4	6.1	14
Toluene	1.5	1.2 J	5.6	4.6 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	0.23 J	10	1.6 J
2-Hexanone	5.9	Not Detected UJ	24	Not Detected UJ

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Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101812**	**Date of Collection:**	**10/11/12 3:22:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/18/12 02:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	0.34 J	7.3	1.7 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	110	14	270
Isopentane	5.9	400	17	1200

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-6-5-101012

Lab ID#: 1210301A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101813**	**Date of Collection:**	**10/10/12 2:49:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 02:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	6.8	2.2 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.16 J	7.8	0.89 J
Ethanol	5.5	1.5 J J	10	2.8 J J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	17	33	41
2-Propanol	5.5	4.7 J	14	12 J
Carbon Disulfide	5.5	~~1.1 J~~ U	17	~~3.5 J~~ U
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	~~0.39 J~~ U	48	~~1.4 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	Not Detected	4.9	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	3.6	6.4	16
Benzene	1.4	0.95 J	4.4	3.0 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected UJ UJ	20	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.20 J	5.2	0.77 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected UJ UJ	23	Not Detected UJ UJ

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Client Sample ID: VMP-6-5-101012

Lab ID#: 1210301A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101813**	**Date of Collection:**	**10/10/12 2:49:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 02:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	0.84 J	16	2.5 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101815**	**Date of Collection:**	**10/11/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 03:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.1	2.5 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.27 J	8.1	1.5 J
Ethanol	5.8	2.0 J J	11	3.7 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	3.6 J	34	8.5 J
2-Propanol	5.8	1.5 J	14	3.7 J
Carbon Disulfide	5.8	~~0.03 J~~ U	18	~~2.9 J~~ U
3-Chloropropene	5.8	Not Detected	18	Not Detected U
Methylene Chloride	14	~~0.40 J~~ U	50	~~1.4 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.62 J	5.1	2.2 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.74 J	5.0	2.5 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	9.2	6.8	43
Benzene	1.4	2.1	4.6	6.6
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.65 J	5.9	2.6 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected UJ UJ	21	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.72 J	5.4	2.7 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected UJ UJ	24	Not Detected UJ UJ

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Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101815**	**Date of Collection:**	**10/11/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 03:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	1.9 J	17	5.7 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-6-31.5-101112

Lab ID#: 1210301A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101816**	**Date of Collection:**	**10/11/12 10:21:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 04:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.0	2.5 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.37 J	7.9	2.1 J
Ethanol	5.6	3.9 J J	11	7.3 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	6.0 J	33	14 J
2-Propanol	5.6	2.4 J	14	5.9 J
Carbon Disulfide	5.6	~~1.4 J~~ U	18	~~4.5 J~~ U
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	0.80 J	49	2.8 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.48 J	5.0	1.7 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	0.96 J	6.9	4.7 J
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	0.52 J	4.8	1.8 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	150	6.6	710
Benzene	1.4	1.5	4.5	4.9
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
Trichloroethene	1.4	1.0 J	7.6	5.5 J
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected UJ UJ	20	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	0.60 J	5.8	2.4 J
Toluene	1.4	0.43 J	5.3	1.6 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected
2-Hexanone	5.6	Not Detected UJ UJ	23	Not Detected UJ UJ

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Client Sample ID: VMP-6-31.5-101112

Lab ID#: 1210301A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101816**	**Date of Collection:**	**10/11/12 10:21:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/18/12 04:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	7.7	13	18
Isopentane	5.6	3.2 J	17	9.4 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101822**	**Date of Collection:**	**10/11/12 11:05:00 A**
Dil. Factor:	**5.38**	**Date of Analysis:**	**10/18/12 07:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	0.56 J	13	2.8 J
Freon 114	2.7	Not Detected	19	Not Detected
Chloromethane	27	Not Detected	56	Not Detected
Vinyl Chloride	2.7	Not Detected	6.9	Not Detected
1,3-Butadiene	2.7	Not Detected	6.0	Not Detected
Bromomethane	27	Not Detected	100	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.7	Not Detected	15	Not Detected
Ethanol	11	Not Detected UJ	20	Not Detected UJ
Freon 113	2.7	Not Detected	21	Not Detected
1,1-Dichloroethene	2.7	Not Detected	11	Not Detected
Acetone	27	12 J	64	30 J
2-Propanol	11	2.9 J	26	7.1 J
Carbon Disulfide	11	~~1.7 J~~ U	34	~~5.4 J~~ U
3-Chloropropene	11	Not Detected	34	Not Detected
Methylene Chloride	27	0.93 J	93	3.2 J
Methyl tert-butyl ether	2.7	Not Detected	9.7	Not Detected
trans-1,2-Dichloroethene	2.7	Not Detected	11	Not Detected
Hexane	2.7	0.60 J	9.5	2.1 J
1,1-Dichloroethane	2.7	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	32	Not Detected
cis-1,2-Dichloroethene	2.7	Not Detected	11	Not Detected
Tetrahydrofuran	2.7	Not Detected	7.9	Not Detected
Chloroform	2.7	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.7	Not Detected	15	Not Detected
Cyclohexane	2.7	0.92 J	9.2	3.2 J
Carbon Tetrachloride	2.7	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.7	1000	12	4900
Benzene	2.7	2.6 J	8.6	8.2 J
1,2-Dichloroethane	2.7	Not Detected	11	Not Detected
Heptane	2.7	Not Detected	11	Not Detected
Trichloroethene	2.7	Not Detected	14	Not Detected
1,2-Dichloropropane	2.7	Not Detected	12	Not Detected
1,4-Dioxane	11	Not Detected UJ	39	Not Detected UJ
Bromodichloromethane	2.7	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.7	Not Detected	11	Not Detected
Toluene	2.7	0.93 J	10	3.5 J
trans-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.7	Not Detected	15	Not Detected
Tetrachloroethene	2.7	Not Detected	18	Not Detected
2-Hexanone	11	Not Detected UJ	44	Not Detected UJ

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Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101822**	**Date of Collection:**	**10/11/12 11:05:00 A**
Dil. Factor:	**5.38**	**Date of Analysis:**	**10/18/12 07:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.7	Not Detected	23	Not Detected
1,2-Dibromoethane (EDB)	2.7	Not Detected	21	Not Detected
Chlorobenzene	2.7	Not Detected	12	Not Detected
Ethyl Benzene	2.7	Not Detected	12	Not Detected
m,p-Xylene	2.7	Not Detected	12	Not Detected
o-Xylene	2.7	Not Detected	12	Not Detected
Styrene	2.7	Not Detected	11	Not Detected
Bromoform	2.7	Not Detected	28	Not Detected
Cumene	2.7	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	2.7	Not Detected	18	Not Detected
Propylbenzene	2.7	Not Detected	13	Not Detected
4-Ethyltoluene	2.7	Not Detected	13	Not Detected
1,3,5-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.7	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.7	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	80	Not Detected
Hexachlorobutadiene	11	Not Detected	110	Not Detected
Butane	11	Not Detected	26	Not Detected
Isopentane	11	2.0 J	32	5.9 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-7-29.5-101012

Lab ID#: 1210301A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101817**	**Date of Collection:**	**10/10/12 3:03:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 04:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	7.1	2.3 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.24 J	8.1	1.4 J
Ethanol	5.8	4.0 J J	11	7.6 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	27	34	64
2-Propanol	5.8	1.1 J	14	2.6 J
Carbon Disulfide	5.8	3.0 J	18	9.3 J
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.66 J	50	2.3 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.84 J	5.1	2.9 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	1.0 J	17	3.1 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	2.8	6.8	13
Benzene	1.4	3.1	4.6	9.8
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected UJ UJ	21	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.35 J	5.4	1.3 J
trans-1,3-Dichloropropene	1.4	0.38 J	6.6	1.7 J
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected UJ UJ	24	Not Detected UJ UJ

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Client Sample ID: VMP-7-29.5-101012

Lab ID#: 1210301A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101817**	**Date of Collection:**	**10/10/12 3:03:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 04:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	~~0.27 J~~ u	8.7	~~1.6 J~~ u
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	~~0.40 J~~ u	43	~~3.0 J~~ u
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	2.2 J	14	5.2 J
Isopentane	5.8	1.9 J	17	5.7 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101818**	**Date of Collection:**	**10/11/12 9:26:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/18/12 05:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.55 J	6.6	2.7 J
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	0.20 J	7.6	1.1 J
Ethanol	5.4	3.2 J J	10	6.0 J J
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	8.9 J	32	21 J
2-Propanol	5.4	1.6 J	13	3.9 J
Carbon Disulfide	5.4	~~1.6 J~~ U	17	~~5.1 J~~ U
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	0.58 J	47	2.0 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	0.48 J	4.7	1.7 J
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	2.4	6.3	11
Benzene	1.3	3.9	4.3	12
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected UJ UJ	19	Not Detected UJ UJ
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	0.73 J	5.5	3.0 J
Toluene	1.3	0.57 J	5.1	2.2 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected UJ UJ	22	Not Detected UJ UJ

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Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101818**	**Date of Collection:**	**10/11/12 9:26:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/18/12 05:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	Not Detected	13	Not Detected
Isopentane	5.4	1.1 J	16	3.3 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-9-5-101012

Lab ID#: 1210301A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101819**	**Date of Collection:**	**10/10/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 06:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.1	2.5 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.25 J	8.1	1.4 J
Ethanol	5.8	1.3 J J	11	2.5 J J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	11 J	34	26 J
2-Propanol	5.8	1.6 J	14	3.9 J
Carbon Disulfide	5.8	~~1.1 J~~ U	18	~~3.6 J~~ U
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.84 J	50	2.9 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	Not Detected	5.1	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	3.4	6.8	16
Benzene	1.4	1.1 J	4.6	3.7 J
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected UJ UJ	21	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	0.13 J	5.4	0.50 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected UJ UJ	24	Not Detected UJ UJ

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Client Sample ID: VMP-9-5-101012

Lab ID#: 1210301A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101819**	**Date of Collection:**	**10/10/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/18/12 06:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	0.71 J	17	2.1 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101820**	**Date of Collection:**	**10/10/12 10:24:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/18/12 06:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	6.8	2.8 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.28 J	7.8	1.6 J
Ethanol	5.5	5.8 J	10	11 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	21	33	51
2-Propanol	5.5	26	14	63
Carbon Disulfide	5.5	~~1.2 J~~ U	17	~~3.8 J~~ U
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	0.65 J	48	2.2 J
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.60 J	4.9	2.1 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	0.46 J	4.1	1.4 J
Chloroform	1.4	0.97 J	6.7	4.8 J
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.60 J	4.8	2.1 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	7.3	6.4	34
Benzene	1.4	2.0	4.4	6.6
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.50 J	5.6	2.1 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected UJ UJ	20	Not Detected UJ UJ
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	0.81 J	5.2	3.1 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected UJ UJ	23	Not Detected UJ UJ

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Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101820**	**Date of Collection: 10/10/12 10:24:00 A**	
Dil. Factor:	**2.76**	**Date of Analysis: 10/18/12 06:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.25 J	6.0	1.1 J
m,p-Xylene	1.4	0.37 J	6.0	1.6 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	2.4 J	16	7.1 J

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101821**	**Date of Collection:**	**10/10/12 1:07:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/18/12 07:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.54 J	6.5	2.7 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.27 J	7.4	1.5 J
Ethanol	5.3	2.3 J J	9.9	4.3 J J
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	8.0 J	31	19 J
2-Propanol	5.3	3.5 J	13	8.7 J
Carbon Disulfide	5.3	~~1.0 J~~ U	16	~~3.2 J~~ U
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	~~0.52 J~~ U	46	~~1.8 J~~ U
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	3.1	6.4	15
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	1.7	6.2	8.1
Benzene	1.3	1.6	4.2	5.0
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	Not Detected	5.4	Not Detected
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected UJ UJ	19	Not Detected UJ UJ
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	0.32 J	5.0	1.2 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected UJ UJ	22	Not Detected UJ UJ

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Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101821**	**Date of Collection: 10/10/12 1:07:00 PM**	
Dil. Factor:	**2.64**	**Date of Analysis: 10/18/12 07:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.7	Not Detected
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	Not Detected	12	Not Detected
Isopentane	5.3	Not Detected	16	Not Detected

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-9-38.5-101012

Lab ID#: 1210301A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101823**	**Date of Collection:**	**10/10/12 1:50:00 PM**
Dil. Factor:	**7.88**	**Date of Analysis:**	**10/18/12 08:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.9	Not Detected	19	Not Detected
Freon 114	3.9	Not Detected	28	Not Detected
Chloromethane	39	Not Detected	81	Not Detected
Vinyl Chloride	3.9	Not Detected	10	Not Detected
1,3-Butadiene	3.9	Not Detected	8.7	Not Detected
Bromomethane	39	Not Detected	150	Not Detected
Chloroethane	16	Not Detected	42	Not Detected
Freon 11	3.9	Not Detected	22	Not Detected
Ethanol	16	Not Detected UJ	30	Not Detected UJ
Freon 113	3.9	Not Detected	30	Not Detected
1,1-Dichloroethene	3.9	Not Detected	16	Not Detected
Acetone	39	8.1 J	94	19 J
2-Propanol	16	1.6 J	39	4.0 J
Carbon Disulfide	16	~~1.6 J~~ U	49	~~5.0 J~~ U
3-Chloropropene	16	Not Detected	49	Not Detected
Methylene Chloride	39	Not Detected	140	Not Detected
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Hexane	3.9	1.5 J	14	5.2 J
1,1-Dichloroethane	3.9	Not Detected	16	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	Not Detected	46	Not Detected
cis-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Tetrahydrofuran	3.9	Not Detected	12	Not Detected
Chloroform	3.9	Not Detected	19	Not Detected
1,1,1-Trichloroethane	3.9	Not Detected	21	Not Detected
Cyclohexane	3.9	6.0	14	20
Carbon Tetrachloride	3.9	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	3.9	1000	18	4800
Benzene	3.9	380	12	1200
1,2-Dichloroethane	3.9	Not Detected	16	Not Detected
Heptane	3.9	Not Detected	16	Not Detected
Trichloroethene	3.9	Not Detected	21	Not Detected
1,2-Dichloropropane	3.9	Not Detected	18	Not Detected
1,4-Dioxane	16	Not Detected UJ	57	Not Detected UJ
Bromodichloromethane	3.9	Not Detected	26	Not Detected
cis-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
4-Methyl-2-pentanone	3.9	Not Detected	16	Not Detected
Toluene	3.9	0.61 J	15	2.3 J
trans-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
1,1,2-Trichloroethane	3.9	Not Detected	21	Not Detected
Tetrachloroethene	3.9	Not Detected	27	Not Detected
2-Hexanone	16	Not Detected UJ	64	Not Detected UJ

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Client Sample ID: VMP-9-38.5-101012

Lab ID#: 1210301A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101823**	**Date of Collection: 10/10/12 1:50:00 PM**	
Dil. Factor:	**7.88**	**Date of Analysis: 10/18/12 08:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.9	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	3.9	Not Detected	30	Not Detected
Chlorobenzene	3.9	Not Detected	18	Not Detected
Ethyl Benzene	3.9	Not Detected	17	Not Detected
m,p-Xylene	3.9	Not Detected	17	Not Detected
o-Xylene	3.9	Not Detected	17	Not Detected
Styrene	3.9	Not Detected	17	Not Detected
Bromoform	3.9	Not Detected	41	Not Detected
Cumene	3.9	Not Detected	19	Not Detected
1,1,2,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
Propylbenzene	3.9	Not Detected	19	Not Detected
4-Ethyltoluene	3.9	Not Detected	19	Not Detected
1,3,5-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,2,4-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,3-Dichlorobenzene	3.9	Not Detected	24	Not Detected
1,4-Dichlorobenzene	3.9	Not Detected	24	Not Detected
alpha-Chlorotoluene	3.9	Not Detected	20	Not Detected
1,2-Dichlorobenzene	3.9	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected
Butane	16	98	37	230
Isopentane	16	880	46	2600

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210301A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 11:01 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.38 J	6.2	1.2 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.10 J	17	0.36 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected UJ	7.2	Not Detected UJ
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected UJ	8.2	Not Detected UJ

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Client Sample ID: Lab Blank

Lab ID#: 1210301A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 11:01 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	0.071 J	2.3	0.33 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	0.11 J	3.0	0.69 J
1,4-Dichlorobenzene	0.50	0.15 J	3.0	0.89 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.45 J	15	3.3 J
Hexachlorobutadiene	2.0	0.28 J	21	3.0 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: CCV

Lab ID#: 1210301A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:04 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	88
Chloromethane	108
Vinyl Chloride	91
1,3-Butadiene	89
Bromomethane	91
Chloroethane	92
Freon 11	96
Ethanol	98
Freon 113	86
1,1-Dichloroethene	92
Acetone	93
2-Propanol	98
Carbon Disulfide	89
3-Chloropropene	91
Methylene Chloride	98
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	89
Hexane	102
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	88
Tetrahydrofuran	101
Chloroform	92
1,1,1-Trichloroethane	96
Cyclohexane	90
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	96
Benzene	88
1,2-Dichloroethane	98
Heptane	100
Trichloroethene	83
1,2-Dichloropropane	92
1,4-Dioxane	61 Q
Bromodichloromethane	96
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	96
Toluene	94
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	88
Tetrachloroethene	84
2-Hexanone	66 Q

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Client Sample ID: CCV

Lab ID#: 1210301A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:04 AM**	

Compound	%Recovery
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	91
Chlorobenzene	89
Ethyl Benzene	96
m,p-Xylene	99
o-Xylene	100
Styrene	100
Bromoform	95
Cumene	101
1,1,2,2-Tetrachloroethane	92
Propylbenzene	99
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	94
Butane	94
Isopentane	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 1210301A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:33 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	91
Chloromethane	108
Vinyl Chloride	93
1,3-Butadiene	88
Bromomethane	87
Chloroethane	94
Freon 11	96
Ethanol	63 Q
Freon 113	87
1,1-Dichloroethene	99
Acetone	84
2-Propanol	92
Carbon Disulfide	111
3-Chloropropene	108
Methylene Chloride	97
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	102
Hexane	101
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	90
Tetrahydrofuran	90
Chloroform	93
1,1,1-Trichloroethane	97
Cyclohexane	92
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	96
Benzene	91
1,2-Dichloroethane	97
Heptane	99
Trichloroethene	85
1,2-Dichloropropane	92
1,4-Dioxane	76
Bromodichloromethane	96
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	86
Toluene	94
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	86
Tetrachloroethene	82
2-Hexanone	76

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Client Sample ID: LCS

Lab ID#: 1210301A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 08:33 AM**	

Compound	%Recovery
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	90
Chlorobenzene	90
Ethyl Benzene	94
m,p-Xylene	98
o-Xylene	98
Styrene	98
Bromoform	90
Cumene	98
1,1,2,2-Tetrachloroethane	90
Propylbenzene	96
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	91
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	88
Butane	92
Isopentane	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1210301A-18AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:05 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	91
Chloromethane	108
Vinyl Chloride	95
1,3-Butadiene	90
Bromomethane	89
Chloroethane	95
Freon 11	96
Ethanol	64 Q
Freon 113	88
1,1-Dichloroethene	100
Acetone	85
2-Propanol	93
Carbon Disulfide	113
3-Chloropropene	107
Methylene Chloride	97
Methyl tert-butyl ether	81
trans-1,2-Dichloroethene	103
Hexane	104
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	90
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	98
Cyclohexane	95
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	98
Benzene	89
1,2-Dichloroethane	95
Heptane	97
Trichloroethene	82
1,2-Dichloropropane	92
1,4-Dioxane	76
Bromodichloromethane	94
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	89
Toluene	92
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	88
Tetrachloroethene	84
2-Hexanone	77

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210301A-18AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/12 09:05 AM**	

Compound	%Recovery
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	92
Chlorobenzene	91
Ethyl Benzene	96
m,p-Xylene	101
o-Xylene	101
Styrene	99
Bromoform	91
Cumene	100
1,1,2,2-Tetrachloroethane	92
Propylbenzene	98
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	89
Butane	92
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	101	70-130

1210301

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOA/CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/12/12
PO #:
SAP #: 3 4 0 0 8 1
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
REF. DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L.Rathnow, S. Jansen, C. Williams, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by: BW
Date: 10/15/12
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-16 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-1-5-101112	10/11/12	1410-1444	35684	-30	-10	8.0"Hg	15psi	X	X	
02A	VMP-1-8.5-101112	10/11/12	1456-1531	31783	-30	-10.5	8.5"Hg		X	X	
03A	VMP-5-12.5-101112	10/11/12	1130-1201	37412	-28.5	-5.5	5.0"Hg		X	X	
04A	VMP-5-31-101112	10/11/12	1355-1429	11823	-30	-9	8.5"Hg		X	X	
05A	VMP-5-40-101112	10/11/12	1451-1522	34139	-29.5	-10.5	9.5"Hg		X	X	
06A	VMP-6-5-101012	10/10/12	1414-1449	35660	-30	-10	8.0"Hg		X	X	
07A	VMP-6-10-101112	10/11/12	0902-0933	3054	-30	-11	9.0"Hg		X	X	
08A	VMP-6-31.5-101112	10/11/12	0949-1021	1043	-30	-10	8.5"Hg		X	X	
09A	VMP-6-39-101112	10/11/12	1034-1105	9532	-30	-8.5	7.5"Hg		X	X	
10A	VMP-7-29.5-101012	10/10/12	1430-1503	33365	-30	-9	9.0"Hg		X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	[illegible]	10/15/12	0935
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2008 Revision

Fedex
Custody Seal Intact?
Y N None Temp N/A

Revised COC Received 10/4/12

121030 1
~~121030 2~~ 10/24/12

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SOBOH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:

INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 10/12/12
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
STATE: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJ. DELIVERABLE TO (phone, e-mail/fax): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
ATTENTION: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
COPY TO: L.Rathnow, S. Jansen, C. Williams, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To (Invoice) E-MAIL: Robert.Moosheglan@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by: BW
Date: 10/5/12
Pressurization Gas: ☐ N ☐ He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
1A	VMP-7-38-101112	10/11/12	0953-0926	2199	-30	-8.5	7.5	15.5	X	X	
2A	VMP-9-5-101012	10/10/12	0902-0933	2201	-30	-11	7.0		X	X	
3A	VMP-9-11.5-101012	10/10/12	0954-1024	33397	-30	-10.5	8.0		X	X	
4A	~~VMP-9-25.5-101012~~ VMP-9-25.5-10012	10/10/12	1234-1307	37885	-30	-9	7.0		X	X	
5A	VMP-9-38.5-101012 10/24/12	10/10/12	1318-1350	37590	-30	-9.5	8.0		X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
Relinquished by: (Signature)	Received by: (Signature) BW Sutton ATC	10/5/12	0935
Relinquished by: (Signature)	Received by: (Signature)		

05/2006 Revision

~~Fedex~~ Custody Seal Intact?
(Y) N None Temp N/A

Revised COC Received 10/24/12

1210301

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Moosheglan PO. #:	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/12/12 SAP #: 3 4 0 0 6 1 PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis	PHONE NO.: 314-743-4179
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		E-MAIL: Elizabeth_Kunkel@URSCorp.com	CONSULTANT PROJECT MANAGER: Roxana Soil Vapor
TELEPHONE: 314-429-0100	FAX: 314-429-0462	RE To Contact E-MAIL: Robert.Moosheglan@urs.com	L.Rathnow, S. Jansen, C. Williams, C Kretzer

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01A	VMP-1-5-101112	10/11/12	1410-1444	35664	-30	-10			X	X						
02A	VMP-1-8.5-101112	10/11/12	1456-1531	31783	-30	-10.5			X	X						
03A	VMP-5-12.5-101112	10/11/12	1139-1201	37412	-28.5	-5.5			X	X						
04A	VMP-5-31-101112	10/11/12	1355-1430	11823	-30	-9			X	X						
05A	VMP-5-40-101112	10/11/12	1451-1522	34139	-29.5	-10.5			X	X						
06A	VMP-8-5-101012	10/10/12	1414-1449	35660	-30	-10			X	X						
07A	VMP-8-10-101112	10/11/12	0902-0933	3054	-30	-11			X	X						
08A	VMP-8-31.5-101112	10/11/12	0949-1021	1043	-30	-10			X	X						
09A	VMP-8-39-101112	10/11/12	1034-1105	9532	-30	-9.5			X	X						
10A	VMP-7-29.5-101012	10/10/12	1430-1508	33395	-30	-9			X	X						

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
	B. Butcher ATC	10/15/12	0935

Feder

Custody Seal Intact?
Y N None Temp____

1210301
~~121032~~ 10/19/12

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO #:	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/12/12 PAGE: 2 of 2
SAMPLING COMPANY: URS CORPORATION ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110 LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TELEPHONE: 314-429-0100 FAX: 314-429-0462 EDT/To Contact E-MAIL: Robert.Mooshegian@urs.com	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA State: IL GLOBAL ID NO.: EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis PHONE NO.: 314-743-4179 E-MAIL: Elizabeth_Kunkel@URSCorp.com CONSULTANT PROJECT NAME/#: Roxana Soil Vapor L.Rathnow, S. Jansen, C. Williams, C. Kratzer	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
11	VMP-7-38-101112	10/11/12	0853-0926	2190	-30	-8.5			X	X					
10	VMP-9-5-101012	10/10/12	0902-0933	2201	-30	-11			X	X					
9	VMP-9-11.5-101012	10/10/12	0954-1024	33397	-30	-10.5			X	X					
4	VMP-9-22.5-101012	10/10/12	1234-1307	37685	-30	-9			X	X					
10	VMP-9-38.5-101012	10/10/12	1318-1350	37690	-30	-9.5			X	X					

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/12/12	Time: 1200
Relinquished by: (Signature)	Received by: (Signature) BRSchlatter FIC	Date: 10/13/12	Time: 0935
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

85/206 Revision

Fedex
Custody Seal Intact?
Y N None Temp____

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10/30/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #:
Workorder #: 1210301B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/15/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/18/12

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WORK ORDER #: 1210301B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	Roxana Soil Vapor
DATE RECEIVED:	10/15/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/30/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-5-101112	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-1-8.5-101112	Modified ASTM D-1946	8.5 "Hg	15 psi
03A	VMP-5-12.5-101112	Modified ASTM D-1946	5.0 "Hg	15 psi
04A	VMP-5-31-101112	Modified ASTM D-1946	8.5 "Hg	15 psi
05A	VMP-5-40-101112	Modified ASTM D-1946	9.5 "Hg	15 psi
06A	VMP-6-5-101012	Modified ASTM D-1946	8.0 "Hg	15 psi
07A	VMP-6-10-101112	Modified ASTM D-1946	9.0 "Hg	15 psi
08A	VMP-6-31.5-101112	Modified ASTM D-1946	8.5 "Hg	15 psi
09A	VMP-6-39-101112	Modified ASTM D-1946	7.5 "Hg	15 psi
10A	VMP-7-29.5-101012	Modified ASTM D-1946	9.0 "Hg	15 psi
11A	VMP-7-38-101112	Modified ASTM D-1946	7.5 "Hg	15 psi
12A	VMP-9-5-101012	Modified ASTM D-1946	9.0 "Hg	15 psi
13A	VMP-9-11.5-101012	Modified ASTM D-1946	8.0 "Hg	15 psi
14A	VMP-9-25.5-101012	Modified ASTM D-1946	7.0 "Hg	15 psi
15A	VMP-9-38.5-101012	Modified ASTM D-1946	8.0 "Hg	15 psi
16A	Lab Blank	Modified ASTM D-1946	NA	NA
16B	Lab Blank	Modified ASTM D-1946	NA	NA
17A	LCS	Modified ASTM D-1946	NA	NA
17AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/30/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210301B

Fifteen 1 Liter Summa Canister samples were received on October 15, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	80
Methane	0.00028	0.000034 J
Carbon Dioxide	0.028	0.37
Helium	0.14	0.094

Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	81
Methane	0.00028	0.000043 J
Carbon Dioxide	0.028	1.8
Helium	0.14	0.023 J

Client Sample ID: VMP-5-12.5-101112

Lab ID#: 1210301B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.64	22
Nitrogen	0.64	77
Methane	0.00064	0.000089 J
Carbon Dioxide	0.064	0.16
Helium	0.32	0.50

Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	80

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301B-04A

Methane	0.00028	0.00027 J
Carbon Dioxide	0.028	4.0
Helium	0.14	0.068

Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	79
Methane	0.00030	0.0034
Carbon Dioxide	0.030	3.5
Helium	0.15	0.046

Client Sample ID: VMP-6-5-101012

Lab ID#: 1210301B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	78
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	0.096
Helium	0.14	1.6

Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	79
Methane	0.00029	0.000052 J
Carbon Dioxide	0.029	0.54
Helium	0.14	0.078

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-6-31.5-101112

Lab ID#: 1210301B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	82
Methane	0.00028	0.0024
Carbon Dioxide	0.028	5.5
Helium	0.14	0.034

Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.35	6.3
Nitrogen	0.35	84
Methane	0.00035	0.0034
Carbon Dioxide	0.035	9.4
Helium	0.18	0.12

Client Sample ID: VMP-7-29.5-101012

Lab ID#: 1210301B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	17
Nitrogen	0.29	78
Methane	0.00029	0.00022 J
Carbon Dioxide	0.029	4.5
Helium	0.14	0.078

Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	20
Nitrogen	0.27	80

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301B-11A

Methane	0.00027	0.00011 J
Carbon Dioxide	0.027	0.17
Helium	0.13	0.11

Client Sample ID: VMP-9-5-101012

Lab ID#: 1210301B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Methane	0.00029	0.000099 J
Carbon Dioxide	0.029	0.21
Helium	0.14	0.089

Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.36	20
Nitrogen	0.36	79
Methane	0.00036	0.000051 J
Carbon Dioxide	0.036	0.43
Helium	0.18	0.24

Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19
Nitrogen	0.26	79
Carbon Dioxide	0.026	1.6
Helium	0.13	0.033

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-9-38.5-101012

Lab ID#: 1210301B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	80
Methane	0.00028	0.0054
Carbon Dioxide	0.028	5.9
Helium	0.14	0.024 J

eurofins | Air Toxics

Client Sample ID: VMP-1-5-101112

Lab ID#: 1210301B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102406**	**Date of Collection:**	**10/11/12 2:44:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/24/12 09:42 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000034 J
Carbon Dioxide	0.028	0.37
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.094

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-1-8.5-101112

Lab ID#: 1210301B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102407**	**Date of Collection:**	**10/11/12 3:31:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/24/12 10:11 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000043 J
Carbon Dioxide	0.028	1.8
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-5-12.5-101112

Lab ID#: 1210301B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102412**	**Date of Collection:**	**10/11/12 12:01:00 P**
Dil. Factor:	**6.45**	**Date of Analysis:**	**10/24/12 12:31 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.64	22
Nitrogen	0.64	77
Carbon Monoxide	0.064	Not Detected
Methane	0.00064	0.000089 J
Carbon Dioxide	0.064	0.16
Ethane	0.0064	Not Detected
Ethene	0.0064	Not Detected
Helium	0.32	0.50

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-5-31-101112

Lab ID#: 1210301B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102408**	**Date of Collection:**	**10/11/12 2:30:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/24/12 10:41 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00027 J
Carbon Dioxide	0.028	4.0
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.068

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-5-40-101112

Lab ID#: 1210301B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102409**	**Date of Collection:**	**10/11/12 3:22:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/24/12 11:03 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0034
Carbon Dioxide	0.030	3.5
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.046

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-6-5-101012

Lab ID#: 1210301B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102410**	**Date of Collection:**	**10/10/12 2:49:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/24/12 11:27 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	78
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00011 J
Carbon Dioxide	0.028	0.096
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	1.6

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-6-10-101112

Lab ID#: 1210301B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102413**	**Date of Collection:**	**10/11/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/24/12 12:59 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000052 J
Carbon Dioxide	0.029	0.54
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.078

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-6-31.5-101112

Lab ID#: 1210301B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102414**	**Date of Collection:**	**10/11/12 10:21:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/24/12 01:25 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	82
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0024
Carbon Dioxide	0.028	5.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.034

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-6-39-101112

Lab ID#: 1210301B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102411**	**Date of Collection:**	**10/11/12 11:05:00 A**
Dil. Factor:	**3.50**	**Date of Analysis:**	**10/24/12 11:55 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.35	6.3
Nitrogen	0.35	84
Carbon Monoxide	0.035	Not Detected
Methane	0.00035	0.0034
Carbon Dioxide	0.035	9.4
Ethane	0.0035	Not Detected
Ethene	0.0035	Not Detected
Helium	0.18	0.12

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-7-29.5-101012

Lab ID#: 1210301B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102415**	**Date of Collection:**	**10/10/12 3:03:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/24/12 01:48 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	17
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00022 J
Carbon Dioxide	0.029	4.5
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.078

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-7-38-101112

Lab ID#: 1210301B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102416**	**Date of Collection:**	**10/11/12 9:26:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/24/12 02:14 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	20
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.00011 J
Carbon Dioxide	0.027	0.17
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.11

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-9-5-101012

Lab ID#: 1210301B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102417**	**Date of Collection:**	**10/10/12 9:33:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/24/12 02:38 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000099 J
Carbon Dioxide	0.029	0.21
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.089

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-9-11.5-101012

Lab ID#: 1210301B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102418**	**Date of Collection:**	**10/10/12 10:24:00 A**
Dil. Factor:	**3.59**	**Date of Analysis:**	**10/24/12 03:09 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.36	20
Nitrogen	0.36	79
Carbon Monoxide	0.036	Not Detected
Methane	0.00036	0.000051 J
Carbon Dioxide	0.036	0.43
Ethane	0.0036	Not Detected
Ethene	0.0036	Not Detected
Helium	0.18	0.24

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-9-25.5-101012

Lab ID#: 1210301B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102419**	**Date of Collection:**	**10/10/12 1:07:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/24/12 03:33 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19
Nitrogen	0.26	79
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	1.6
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.033

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-9-38.5-101012

Lab ID#: 1210301B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102420**	**Date of Collection:**	**10/10/12 1:50:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/24/12 03:57 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0054
Carbon Dioxide	0.028	5.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.024 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210301B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 08:42 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210301B-16B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102403b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 08:17 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210301B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 07:53 AM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	100
Methane	99
Carbon Dioxide	98
Ethane	101
Ethene	98
Helium	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210301B-17AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102425**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 06:32 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	98
Methane	100
Carbon Dioxide	100
Ethane	102
Ethene	98
Helium	104

Container Type: NA - Not Applicable

1210301

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SOACM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0

PO #:

SAP #: 3 4 0 0 8 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/12/12

PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

REP DELIVERABLE TO: Name, Company, Office Location: Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME/#: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

CC: L.Rathnow, S. Jansen, C. Williams, C. Kratzer

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Moosheglan@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only: Pressurized by: BW Date: 10/15/12 Pressurization Gas: N2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-1-5-101112	10/11/12	1410-1444	35664	-30	-10	8.0"Hg	15psi	X	X	
02A	VMP-1-6.5-101112	10/11/12	1458-1531	31783	-30	-10.5	8.5"Hg		X	X	
03A	VMP-6-12.5-101112	10/11/12	1130-1201	37412	-28.5	-5.5	5.0"Hg		X	X	
04A	VMP-5-31-101112	10/11/12	1355-1439	11823	-30	-9	8.5"Hg		X	X	
05A	VMP-5-40-101112	10/11/12	1451-1522	34139	-29.5	-10.5	9.5"Hg		X	X	
06A	VMP-6-5-101012	10/10/12	1414-1449	35660	-30	-10	8.5"Hg		X	X	
07A	VMP-6-10-101112	10/11/12	0902-0933	3054	-30	-11	9.0"Hg		X	X	
08A	VMP-6-31.5-101112	10/11/12	0949-1021	1043	-30	-10	8.5"Hg		X	X	
09A	VMP-6-39-101112	10/11/12	1034-1105	9532	-30	-8.5	7.5"Hg		X	X	
10A	VMP-7-29.5-101012	10/10/12	1430-1503	33995	-30	-9	9.0"Hg		X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

		Date	Time
Relinquished by: (Signature)	Received by: (Signature) FEDEX	10/12/12	1200
Relinquished by: (Signature)	Received by: (Signature) BW Rathnow ATC	10/15/12	0935
Relinquished by: (Signature)	Received by: (Signature)		

05/2/08 Revision

Fedex
Custody Seal Intact?
Y N None Temp N/A

Revised COC Received 10/24/12

121030\
~~121302~~ 10/4/12

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vander #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SOECH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:

INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/12/12
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
REPORT DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
COPY TO: L.Rainnow, S. Jansen, C. Williams, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
REPORT TO (Name) E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by: BW
Date: 10/5/12
Pressurization Gas: (N) He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
11	VMP-7-38-101112	10/11/12	0859-0928	2190	-30	-8.5	7.5	15	x	x	
12	VMP-9-5-101012	10/10/12	0902-0933	2201	-30	-11	7.0		x	x	
13	VMP-9-11.5-101012	10/10/12	0954-1024	33397	-30	-10.5	8.0		x	x	
14	~~VMP-9-22.5-101012~~ VMP-9-25.5-101012	10/10/12	1234-1307	37885	-30	-9	7.0		x	x	
15	VMP-9-38.5-101012 10/24/12	10/10/12	1316-1350	37890	-30	-9.5	8.0		x	x	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
Relinquished by: (Signature)	Received by: (Signature)	10/9/12	0935
Relinquished by: (Signature)	Received by: (Signature)		

Fedex
Custody Seal Intact?
(Y) N None Temp N/A

Revised COC Received 10/24/12

1210301

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/12/12

PAGE: 1 of 2

PO #:

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Moosheglan@urs.com

L.Rathnow, S. Jansen, C. Williams, C. Kreiter

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB SOC (Lab)	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01	VMP-1-5-101112	10/11/12	1410-1444	35654	-30	-10			X	X						
02	VMP-1-8.5-101112	10/11/12	1458-1531	31763	-30	-10.5			X	X						
03	VMP-5-12.5-101112	10/11/12	1130-1201	37412	-28.5	-5.5			X	X						
04	VMP-5-31-101112	10/11/12	1355-1430	11823	-30	-9			X	X						
05	VMP-5-40-101112	10/11/12	1451-1522	34139	-29.5	-10.5			X	X						
06	VMP-6-5-101012	10/10/12	1414-1449	35660	-30	-10			X	X						
07	VMP-6-10-101112	10/11/12	0902-0933	3054	-30	-11			X	X						
08	VMP-6-31.5-101112	10/11/12	0949-1021	1043	-30	-10			X	X						
09	VMP-6-39-101112	10/11/12	1034-1105	9532	-30	-9.5			X	X						
10	VMP-7-29.5-101012	10/10/12	1430-1503	33395	-30	-9			X	X						

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
		10/15/12	0935

Custody Seal Intact?
Y N None Temp____

1210301
~~12103.2~~ 10/19/12

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 8 8 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/12/12

PAGE: 2 of 2

PO: #

SAP #: 3 4 0 0 8 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST – SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO: Name, Company, Office Location: Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth.Kunkel@URSCorp.com

CONSULTANT PROJECT MANAGER: Roxana Soil Vapor

LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100

FAX: 314-429-0462

INFO TO (Name, E-MAIL): Robert.Moosheglan@urs.com

L.Rathnow, S. Jansen, C. Williams, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
	VMP-7-38-101112	10/11/12	0853-0926	2190	-30	-8.5			X	X	
	VMP-9-5-101012	10/10/12	0902-0933	2291	-30	-11			X	X	
	VMP-9-11.5-101012	10/10/12	0954-1024	33397	-30	-10.5			X	X	
	VMP-9-22.5-101012	10/10/12	1234-1307	37885	-30	-9			X	X	
	VMP-9-38.5-101012	10/10/12	1318-1350	37690	-30	-9.5			X	X	

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/12/12	1200
	BRSchlumberger	10/13/12	0935

Fedex

Custody Seal Intact?
(Y) N None Temp____

05/2006 Revision

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210376A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/18/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-5-5-101212	VMP-10-5-101612
VMP-10-10-101612	VMP-11-5-101612
VMP-11-8-101612	VMP-11-8-101612-Dup
VMP-11-38-101612	VMP-42-10-101212
VMP-42-20-101212	VMP-42-20-101212-Dup
VMP-42-30-101212	VMP-42-30-101212-Dup
VMP-45-10-101512	VMP-45-20-101512
VMP-45-30-101512	VMP-45-30-101512-Dup
VMP-10-20-101612	VMP-10-30-101612

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-45-20-101512 was diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. The difference in ethanol results for field duplicate pair VMP-42-20-101212/VMP-42-20-101212-Dup was greater than two times (2X) the reporting level; therefore, results were qualified as estimated. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210376A-19A	TO-15	Carbon disulfide	0.33 ppbv / 1.0 µg/m^3
1210376A-19A	TO-15	Methylene chloride	0.15 ppbv / 0.51 µg/m^3
1210376A-19A	TO-15	1,2-Dichloroethane	0.086 ppbv / 0.35 µg/m^3
1210376A-19A	TO-15	Trichloroethene	0.15 ppbv / 0.83 µg/m^3
1210376A-19A	TO-15	Toluene	0.069 ppbv / 0.26 µg/m^3
1210376A-19A	TO-15	trans-1,3-Dichloropropene	0.17 ppbv / 0.76 µg/m^3
1210376A-19A	TO-15	Tetrachloroethene	0.11 ppbv / 0.72 µg/m^3
1210376A-19A	TO-15	1,2-Dibromoethane (EDB)	0.12 ppbv / 0.90 µg/m^3
1210376A-19A	TO-15	Chlorobenzene	0.097 ppbv / 0.45 µg/m^3
1210376A-19A	TO-15	m,p-Xylene	0.20 ppbv / 0.88 µg/m^3
1210376A-19A	TO-15	o-Xylene	0.16 ppbv / 0.68 µg/m^3
1210376A-19A	TO-15	Cumene	0.076 ppbv / 0.38 µg/m^3
1210376A-19A	TO-15	1,1,2,2-Tetrachloroethane	0.071 ppbv / 0.49 µg/m^3
1210376A-19A	TO-15	Propylbenzene	0.12 ppbv / 0.60 µg/m^3
1210376A-19A	TO-15	4-Ethyltoluene	0.11 ppbv / 0.55 µg/m^3
1210376A-19A	TO-15	1,2,4-Trimethylbenzene	0.14 ppbv / 0.70 µg/m^3
1210376A-19A	TO-15	1,3-Dichlorobenzene	0.22 ppbv / 1.3 µg/m^3
1210376A-19A	TO-15	1,4-Dichlorobenzene	0.26 ppbv / 1.5 µg/m^3
1210376A-19A	TO-15	alpha-Chlorotoluene	0.12 ppbv / 0.60 µg/m^3
1210376A-19A	TO-15	1,2-Dichlorobenzene	0.16 ppbv / 1.0 µg/m^3
1210376A-19A	TO-15	1,2,4-Trichlorobenzene	0.63 ppbv / 4.7 µg/m^3
1210376A-19A	TO-15	Hexachlorobutadiene	0.44 ppbv / 4.7 µg/m^3
1210376A-19B	TO-15	Carbon disulfide	0.33 ppbv / 1.0 µg/m^3
1210376A-19B	TO-15	Methylene choride	0.17 ppbv / 0.60 µg/m^3
1210376A-19B	TO-15	1,2-Dichloroethane	0.11 ppbv / 0.46 µg/m^3
1210376A-19B	TO-15	Toluene	0.070 ppbv / 0.26 µg/m^3
1210376A-19B	TO-15	trans-1,3-Dichloropropene	0.14 ppbv / 0.64 µg/m^3
1210376A-19B	TO-15	1,2-Dibromoethane (EDB)	0.12 ppbv / 0.93 µg/m^3
1210376A-19B	TO-15	Chlorobenzene	0.10 ppbv / 0.46 µg/m^3
1210376A-19B	TO-15	m,p-Xylene	0.14 ppbv / 0.62 µg/m^3
1210376A-19B	TO-15	o-Xylene	0.15 ppbv / 0.66 µg/m^3
1210376A-19B	TO-15	1,1,2,2-Tetrachloroethane	0.073 ppbv / 0.50 µg/m^3
1210376A-19B	TO-15	Propylbenzene	0.10 ppbv / 0.52 µg/m^3
1210376A-19B	TO-15	4-Ethyltoluene	0.12 ppbv / 0.60 µg/m^3
1210376A-19B	TO-15	1,2,4-Trimethylbenzene	0.14 ppbv / 0.70 µg/m^3
1210376A-19B	TO-15	1,3-Dichlorobenzene	0.21 ppbv / 1.3 µg/m^3
1210376A-19B	TO-15	1,4-Dichlorobenzene	0.26 ppbv / 1.6 µg/m^3
1210376A-19B	TO-15	alpha-Chlorotoluene	0.12 ppbv / 0.65 µg/m^3
1210376A-19B	TO-15	1,2-Dichlorobenzene	0.24 ppbv / 1.4 µg/m^3
1210376A-19B	TO-15	1,2,4-Trichlorobenzene	0.72 ppbv / 5.3 µg/m^3
1210376A-19B	TO-15	Hexachlorobutadiene	0.36 ppbv / 3.8 µg/m^3
1210376B-19A	Natural gases	Oxygen	0.013%
1210376B-19A	Natural gases	Nitrogen	0.077%

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the

associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-5-5-101212	TO-15	Methylene chloride	-	**U**
VMP-5-5-101212	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-10-5-101612	TO-15	Propylbenzene	-	**U**
VMP-10-10-101612	TO-15	Toluene	-	**U**
VMP-10-10-101612	TO-15	Propylbenzene	-	**U**
VMP-11-8-101612	TO-15	m,p-Xylene	-	**U**
VMP-11-8-101612-Dup	TO-15	Methylene chloride	-	**U**
VMP-11-8-101612-Dup	TO-15	m,p-Xylene	-	**U**
VMP-11-8-101612-Dup	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-11-38-101612	TO-15	Toluene	-	**U**
VMP-11-38-101612	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-42-10-101212	TO-15	Methylene chloride	-	**U**
VMP-42-10-101212	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-42-20-101212-Dup	TO-15	Methylene chloride	-	**U**
VMP-42-20-101212-Dup	TO-15	m,p-Xylene	-	**U**
VMP-42-30-101212	TO-15	Methylene chloride	-	**U**
VMP-42-30-101212-Dup	TO-15	Trichloroethene	-	**U**
VMP-45-10-101512	TO-15	Carbon disulfide	-	**U**
VMP-45-10-101512	TO-15	m,p-Xylene	-	**U**
VMP-45-10-101512	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-45-20-101512	TO-15	Cumene	-	**U**
VMP-45-30-101512	TO-15	Toluene	-	**U**
VMP-45-30-101512	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-45-30-101512-Dup	TO-15	Carbon disulfide	-	**U**
VMP-45-30-101512-Dup	TO-15	Methylene chloride	-	**U**
VMP-45-30-101512-Dup	TO-15	Toluene	-	**U**
VMP-10-20-101612	TO-15	Toluene	-	**U**
VMP-10-20-101612	TO-15	Propylbenzene	-	**U**
VMP-10-20-101612	TO-15	1,2,4-Trimethylbenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-11-8-101612	VMP-11-8-101612-Dup
VMP-42-20-101212	VMP-42-20-101212-Dup
VMP-42-30-101212	VMP-42-30-101212-Dup
VMP-45-30-101512	VMP-45-30-101512-Dup

Were field duplicate sample RPDs within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-42-20-101212	VMP-42-20-101212-Dup	TO-15	Ethanol	**>2X RL**	**J/J**

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

eurofins | Air Toxics

10/31/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210376A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/17/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/18/12

eurofins | Air Toxics

WORK ORDER #: 1210376A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/17/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/31/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-5-5-101212	Modified TO-15	6.0 "Hg	15 psi
02A	VMP-10-5-101612	Modified TO-15	10.0 "Hg	15 psi
03A	VMP-10-10-101612	Modified TO-15	10.8 "Hg	15 psi
04A	VMP-11-5-101612	Modified TO-15	8.6 "Hg	15 psi
05A	VMP-11-8-101612	Modified TO-15	8.8 "Hg	15 psi
06A	VMP-11-8-101612-Dup	Modified TO-15	9.0 "Hg	15 psi
07A	VMP-11-38-101612	Modified TO-15	9.8 "Hg	15 psi
08A	VMP-42-10-101212	Modified TO-15	10.4 "Hg	15 psi
09A	VMP-42-20-101212	Modified TO-15	7.8 "Hg	15 psi
10A	VMP-42-20-101212-Dup	Modified TO-15	8.0 "Hg	15 psi
11A	VMP-42-30-101212	Modified TO-15	9.0 "Hg	15 psi
12A	VMP-42-30-101212-Dup	Modified TO-15	9.0 "Hg	15 psi
13A	VMP-45-10-101512	Modified TO-15	9.2 "Hg	15 psi
14A	VMP-45-20-101512	Modified TO-15	8.0 "Hg	15 psi
14B	VMP-45-20-101512	Modified TO-15	8.0 "Hg	15 psi
15A	VMP-45-30-101512	Modified TO-15	8.0 "Hg	15 psi
16A	VMP-45-30-101512-Dup	Modified TO-15	7.8 "Hg	15 psi
17A	VMP-10-20-101612	Modified TO-15	11.0 "Hg	15 psi
18A	VMP-10-30-101612	Modified TO-15	9.8 "Hg	15 psi
19A	Lab Blank	Modified TO-15	NA	NA
19B	Lab Blank	Modified TO-15	NA	NA
20A	CCV	Modified TO-15	NA	NA
20B	CCV	Modified TO-15	NA	NA

Continued on next page

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WORK ORDER #: 1210376A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/17/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/31/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
21A	LCS	Modified TO-15	NA	NA
21AA	LCSD	Modified TO-15	NA	NA
21B	LCS	Modified TO-15	NA	NA
21BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210376A

Eighteen 1 Liter Summa Canister samples were received on October 17, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to high-level target compounds, sample VMP-45-20-101512 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-5-5-101212

Lab ID#: 1210376A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.5 J
Freon 11	1.3	0.26 J	7.1	1.5 J
Ethanol	5.0	1.8 J	9.5	3.4 J
Acetone	13	20	30	47
Methylene Chloride	13	~~0.39 J~~ U	44	~~1.4 J~~ U
Hexane	1.3	0.53 J	4.4	1.9 J
2-Butanone (Methyl Ethyl Ketone)	5.0	1.1 J	15	3.2 J
2,2,4-Trimethylpentane	1.3	0.86 J	5.9	4.0 J
Benzene	1.3	1.4	4.0	4.3
Toluene	1.3	0.53 J	4.7	2.0 J
1,4-Dichlorobenzene	1.3	~~0.14 J~~ U	7.6	~~0.86 J~~ U
Butane	5.0	2.0 J	12	4.7 J
Isopentane	5.0	2.1 J	15	6.2 J

Client Sample ID: VMP-10-5-101612

Lab ID#: 1210376A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.41 J	7.5	2.0 J
Acetone	15	14 J	36	32 J
Hexane	1.5	8.0	5.3	28
Cyclohexane	1.5	5.3	5.2	18
2,2,4-Trimethylpentane	1.5	8.2	7.1	38
Benzene	1.5	590	4.8	1900
Heptane	1.5	2.8	6.2	12
Toluene	1.5	0.37 J	5.7	1.4 J
Cumene	1.5	0.64 J	7.4	3.1 J
Propylbenzene	1.5	~~0.25 J~~ U	7.4	~~1.2 J~~ U
Butane	6.1	36	14	85
Isopentane	6.1	64	18	190

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-10-10-101612

Lab ID#: 1210376A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.39 J	7.8	1.9 J
Acetone	16	10 J	38	24 J
Hexane	1.6	4.3	5.6	15
Cyclohexane	1.6	1.7	5.4	5.8
2,2,4-Trimethylpentane	1.6	4.6	7.4	21
Benzene	1.6	300	5.0	950
Heptane	1.6	0.95 J	6.5	3.9 J
Toluene	1.6	~~0.22 J~~ u	6.0	~~0.83 J~~ u
Ethyl Benzene	1.6	0.72 J	6.9	3.2 J
m,p-Xylene	1.6	1.6	6.9	6.8
Cumene	1.6	0.44 J	7.8	2.2 J
Propylbenzene	1.6	~~0.23 J~~ u	7.8	~~1.1 J~~ u
Butane	6.3	35	15	84
Isopentane	6.3	45	19	130

Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.0	2.2 J
Ethanol	5.7	6.3	11	12
Acetone	14	12 J	34	28 J
2-Propanol	5.7	19	14	47
Methylene Chloride	14	2.4 J	49	8.2 J
2-Butanone (Methyl Ethyl Ketone)	5.7	1.3 J	17	3.8 J
Tetrahydrofuran	1.4	1.1 J	4.2	3.3 J
2,2,4-Trimethylpentane	1.4	3.8	6.6	18
Benzene	1.4	0.94 J	4.5	3.0 J
Toluene	1.4	0.96 J	5.3	3.6 J
Isopentane	5.7	6.4	17	19

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-11-8-101612

Lab ID#: 1210376A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.56 J	7.1	2.8 J
Ethanol	5.7	25	11	47
Acetone	14	34	34	80
2-Propanol	5.7	390	14	970
Methylene Chloride	14	2.7 J	50	9.3 J
Hexane	1.4	0.92 J	5.0	3.2 J
2-Butanone (Methyl Ethyl Ketone)	5.7	6.9	17	20
Tetrahydrofuran	1.4	18	4.2	55
Cyclohexane	1.4	0.48 J	4.9	1.7 J
2,2,4-Trimethylpentane	1.4	0.41 J	6.7	1.9 J
Benzene	1.4	3.8	4.6	12
4-Methyl-2-pentanone	1.4	0.28 J	5.8	1.2 J
Toluene	1.4	4.8	5.4	18
m,p-Xylene	1.4	~~0.59 J~~ u	6.2	~~2.6 J~~ u
Isopentane	5.7	5.1 J	17	15 J

Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Ethanol	5.8	22	11	41
Acetone	14	27	34	65
2-Propanol	5.8	410	14	1000
Methylene Chloride	14	~~0.35 J~~ u	50	~~1.2 J~~ u
Hexane	1.4	0.76 J	5.1	2.7 J
2-Butanone (Methyl Ethyl Ketone)	5.8	7.3	17	22
Tetrahydrofuran	1.4	20	4.3	60
Chloroform	1.4	0.86 J	7.0	4.2 J
Cyclohexane	1.4	0.62 J	5.0	2.1 J
2,2,4-Trimethylpentane	1.4	0.40 J	6.8	1.9 J
Benzene	1.4	3.8	4.6	12
Toluene	1.4	4.2	5.4	16

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376A-06A

m,p-Xylene	1.4	~~0.67 J~~ U	6.3	~~2.9 J~~ U
1,4-Dichlorobenzene	1.4	~~0.13 J~~ U	8.7	~~0.79 J~~ U
Isopentane	5.8	1.1 J	17	3.3 J

Client Sample ID: VMP-11-38-101612

Lab ID#: 1210376A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.4	2.6 J
Chloromethane	15	3.6 J	31	7.5 J
Ethanol	6.0	2.7 J	11	5.0 J
Acetone	15	11 J	36	26 J
2-Propanol	6.0	6.2	15	15
Carbon Disulfide	6.0	24	19	74
Methyl tert-butyl ether	1.5	3.0	5.4	11
Hexane	1.5	0.65 J	5.3	2.3 J
Chloroform	1.5	5.8	7.3	28
Cyclohexane	1.5	1.5	5.2	5.0
2,2,4-Trimethylpentane	1.5	5.0	7.0	23
Benzene	1.5	3.1	4.8	10
Toluene	1.5	~~0.25 J~~ U	5.6	~~0.93 J~~ U
1,4-Dichlorobenzene	1.5	~~0.16 J~~ U	9.0	~~0.93 J~~ U
Butane	6.0	4.9 J	14	12 J
Isopentane	6.0	11	18	32

Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.6	2.4 J
Ethanol	6.2	19	12	36
Acetone	15	7.2 J	37	17 J
2-Propanol	6.2	10	15	26
Methylene Chloride	15	~~0.40 J~~ U	54	~~1.4 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376A-08A

2-Butanone (Methyl Ethyl Ketone)	6.2	2.3 J	18	6.7 J
2,2,4-Trimethylpentane	1.5	1.7	7.2	8.0
Benzene	1.5	14	4.9	46
4-Methyl-2-pentanone	1.5	15	6.3	60
Toluene	1.5	2.9	5.8	11
Tetrachloroethene	1.5	1.1 J	10	7.5 J
Cumene	1.5	0.89 J	7.6	4.4 J
1,4-Dichlorobenzene	1.5	~~0.17 J~~ U	9.3	~~1.0 J~~ U

Client Sample ID: VMP-42-20-101212

Lab ID#: 1210376A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 11	1.4	0.26 J	7.7	1.5 J
Ethanol	5.5	4.8 J J	10	9.1 J J
Acetone	14	5.4 J	32	13 J
2-Propanol	5.5	3.7 J	13	9.0 J
Methylene Chloride	14	5.6 J	47	20 J
Chloroform	1.4	7.1	6.7	35
2,2,4-Trimethylpentane	1.4	2.4	6.4	11
Benzene	1.4	2.1	4.4	6.7
4-Methyl-2-pentanone	1.4	1.3 J	5.6	5.4 J
Toluene	1.4	0.52 J	5.1	2.0 J
Isopentane	5.5	1.2 J	16	3.5 J

Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 11	1.4	0.33 J	7.8	1.8 J
Ethanol	5.5	19 J	10	36 J
Acetone	14	10 J	33	24 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376A-10A

2-Propanol	5.5	5.7	14	14
Methylene Chloride	14	~~0.53 J~~ U	48	~~1.8 J~~ U
Hexane	1.4	0.50 J	4.9	1.8 J
2-Butanone (Methyl Ethyl Ketone)	5.5	1.8 J	16	5.4 J
Tetrahydrofuran	1.4	1.0 J	4.1	3.0 J
Chloroform	1.4	7.3	6.7	36
Cyclohexane	1.4	0.33 J	4.8	1.1 J
2,2,4-Trimethylpentane	1.4	0.83 J	6.4	3.9 J
Benzene	1.4	2.5	4.4	8.0
4-Methyl-2-pentanone	1.4	1.3 J	5.6	5.4 J
Toluene	1.4	2.3	5.2	8.7
m,p-Xylene	1.4	~~0.40 J~~ U	6.0	~~1.7 J~~ U
Butane	5.5	2.0 J	13	4.9 J
Isopentane	5.5	10	16	30

Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Chloromethane	14	4.1 J	30	8.5 J
Freon 11	1.4	1.2 J	8.1	6.9 J
Ethanol	5.8	5.8	11	11
Acetone	14	13 J	34	31 J
2-Propanol	5.8	3.3 J	14	8.0 J
Carbon Disulfide	5.8	5.9	18	18
Methylene Chloride	14	~~0.31 J~~ U	50	~~1.1 J~~ U
Hexane	1.4	17	5.1	60
2-Butanone (Methyl Ethyl Ketone)	5.8	1.7 J	17	5.0 J
Chloroform	1.4	1.0 J	7.0	5.0 J
Cyclohexane	1.4	2.6	5.0	9.0
2,2,4-Trimethylpentane	1.4	100	6.8	490
Benzene	1.4	3.6	4.6	11
Heptane	1.4	0.87 J	5.9	3.6 J
4-Methyl-2-pentanone	1.4	2.3	5.9	9.4

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376A-11A

Toluene	1.4	0.95 J	5.4	3.6 J
Butane	5.8	230	14	560
Isopentane	5.8	140	17	420

Client Sample ID: VMP-42-30-101212-Dup

Lab ID#: 1210376A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.48 J	7.1	2.4 J
Chloromethane	14	4.4 J	30	9.1 J
Freon 11	1.4	1.2 J	8.1	7.0 J
Ethanol	5.8	5.4 J	11	10 J
Acetone	14	9.0 J	34	21 J
2-Propanol	5.8	1.8 J	14	4.5 J
Carbon Disulfide	5.8	5.9	18	18
Methylene Chloride	14	1.0 J	50	3.7 J
Hexane	1.4	16	5.1	57
Chloroform	1.4	1.0 J	7.0	5.1 J
Cyclohexane	1.4	2.7	5.0	9.3
2,2,4-Trimethylpentane	1.4	100	6.8	470
Benzene	1.4	2.3	4.6	7.2
Heptane	1.4	0.75 J	5.9	3.1 J
Trichloroethene	1.4	~~0.46 J~~ 4	7.8	~~2.5 J~~ 4
4-Methyl-2-pentanone	1.4	2.6	5.9	10
Toluene	1.4	0.91 J	5.4	3.4 J
1,1,2,2-Tetrachloroethane	1.4	0.83 J	9.9	5.7 J
Butane	5.8	230	14	540
Isopentane	5.8	140	17	400

Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.2	2.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376A-13A

Freon 11	1.4	0.25 J	8.2	1.4 J
Acetone	14	6.5 J	34	15 J
Carbon Disulfide	5.8	~~1.4 J~~ U	18	~~4.5 J~~ U
Hexane	1.4	0.29 J	5.1	1.0 J
Chloroform	1.4	1.1 J	7.1	5.2 J
Cyclohexane	1.4	0.27 J	5.0	0.93 J
2,2,4-Trimethylpentane	1.4	8.0	6.8	38
Benzene	1.4	1.1 J	4.6	3.6 J
Toluene	1.4	0.37 J	5.5	1.4 J
m,p-Xylene	1.4	~~0.53 J~~ U	6.3	~~2.3 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.31 J~~ U	7.2	~~1.5 J~~ U
Isopentane	5.8	2.3 J	17	6.8 J

Client Sample ID: VMP-45-20-101512 *Use these results only. All other data was reported from the 2.76x dilution analysis.

Lab ID#: 1210376A-14A

DF = 460

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	0.43 J	11	2.1 J
Acetone	23	7.3 J	55	17 J
2-Propanol	9.2	30	23	74
Hexane	2.3	1.5 J	8.1	5.4 J
Chloroform	2.3	3.4	11	16
Cyclohexane	2.3	1.6 J	7.9	5.7 J
* 2,2,4-Trimethylpentane	2.3	730	11	3400
Benzene	2.3	1.9 J	7.3	6.2 J
4-Methyl-2-pentanone	2.3	1.4 J	9.4	5.6 J
Toluene	2.3	0.79 J	8.7	3.0 J
Butane	9.2	22	22	52
Isopentane	9.2	20	27	58

Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376A-14B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-45-20-101512 *Do not use this data. Use all other data

Lab ID#: 1210376A-14B

DF = 2.76

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	6.8	2.3 J
Ethanol	5.5	2.3 J	10	4.4 J
Acetone	14	7.0 J	33	16 J
2-Propanol	5.5	29	14	72
Hexane	1.4	1.1 J	4.9	3.9 J
Chloroform	1.4	3.3	6.7	16
Cyclohexane	1.4	1.9	4.8	6.4
* ~~2,2,4-Trimethylpentane~~	~~1.4~~	~~690 E~~	~~6.4~~	~~3200 E~~
Benzene	1.4	1.7	4.4	5.3
Heptane	1.4	0.44 J	5.6	1.8 J
4-Methyl-2-pentanone	1.4	1.8	5.6	7.6
Toluene	1.4	0.83 J	5.2	3.1 J
Cumene	1.4	~~0.24 J~~ U	6.8	~~1.2 J~~ U
Butane	5.5	20	13	48
Isopentane	5.5	18	16	54

Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	6.8	2.5 J
Freon 11	1.4	0.62 J	7.8	3.5 J
Ethanol	5.5	1.9 J	10	3.5 J
Acetone	14	10 J	33	25 J
2-Propanol	5.5	1.2 J	14	3.0 J
Hexane	1.4	1.2 J	4.9	4.4 J
2-Butanone (Methyl Ethyl Ketone)	5.5	2.2 J	16	6.4 J
Chloroform	1.4	4.0	6.7	20
Cyclohexane	1.4	2.1	4.8	7.1
2,2,4-Trimethylpentane	1.4	380	6.4	1800
Benzene	1.4	1.6	4.4	5.2
Toluene	1.4	~~0.34 J~~ U	5.2	~~1.3 J~~ U
1,4-Dichlorobenzene	1.4	~~0.10 J~~ U	8.3	~~0.62 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376A-15A

Butane	5.5	14	13	34
Isopentane	5.5	13	16	39

Client Sample ID: VMP-45-30-101512-Dup

Lab ID#: 1210376A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.61 J	6.8	3.0 J
Freon 11	1.4	0.70 J	7.7	3.9 J
Acetone	14	5.6 J	32	13 J
Carbon Disulfide	5.5	~~0.86 J~~ U	17	~~2.7 J~~ U
Methylene Chloride	14	~~0.25 J~~ U	47	~~0.88 J~~ U
Hexane	1.4	0.98 J	4.8	3.5 J
Chloroform	1.4	4.3	6.7	21
Cyclohexane	1.4	2.2	4.7	7.5
2,2,4-Trimethylpentane	1.4	400	6.4	1900
Benzene	1.4	1.6	4.4	5.1
Toluene	1.4	~~0.33 J~~ U	5.1	~~1.2 J~~ U
Butane	5.5	17	13	40
Isopentane	5.5	15	16	44

Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376A-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.44 J	7.9	2.2 J
Ethanol	6.4	3.0 J	12	5.6 J
Acetone	16	32	38	77
Carbon Disulfide	6.4	2.1 J	20	6.6 J
Hexane	1.6	0.99 J	5.6	3.5 J
Cyclohexane	1.6	0.46 J	5.5	1.6 J
2,2,4-Trimethylpentane	1.6	1.3 J	7.4	5.9 J
Benzene	1.6	49	5.1	160
Toluene	1.6	~~0.21 J~~ U	6.0	~~0.81 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376A-17A

Propylbenzene	1.6	~~0.39 J~~ U	7.8	~~1.9 J~~ U
4-Ethyltoluene	1.6	1.4 J	7.8	6.7 J
1,3,5-Trimethylbenzene	1.6	0.53 J	7.8	2.6 J
1,2,4-Trimethylbenzene	1.6	~~0.71 J~~ U	7.8	~~3.5 J~~ U
Butane	6.4	5.5 J	15	13 J
Isopentane	6.4	13	19	38

Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.53 J	7.4	2.6 J
Ethanol	6.0	12	11	22
Acetone	15	34	36	81
2-Propanol	6.0	4.3 J	15	10 J
Methylene Chloride	15	1.5 J	52	5.3 J
Hexane	1.5	1.3 J	5.3	4.6 J
2-Butanone (Methyl Ethyl Ketone)	6.0	2.0 J	18	5.9 J
Tetrahydrofuran	1.5	0.47 J	4.4	1.4 J
Cyclohexane	1.5	0.58 J	5.2	2.0 J
2,2,4-Trimethylpentane	1.5	6.1	7.0	28
Benzene	1.5	9.2	4.8	29
Heptane	1.5	0.51 J	6.1	2.1 J
Toluene	1.5	2.0	5.6	7.7
Isopentane	6.0	9.0	18	26

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Client Sample ID: VMP-5-5-101212

Lab ID#: 1210376A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102320**	**Date of Collection:**	**10/12/12 9:37:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/23/12 06:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.5 J
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	0.26 J	7.1	1.5 J
Ethanol	5.0	1.8 J	9.5	3.4 J
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	20	30	47
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	13	~~0.39 J~~ U	44	~~1.4 J~~ U
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	0.53 J	4.4	1.9 J
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	1.1 J	15	3.2 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	0.86 J	5.9	4.0 J
Benzene	1.3	1.4	4.0	4.3
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	0.53 J	4.7	2.0 J
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.5	Not Detected
2-Hexanone	5.0	Not Detected	21	Not Detected

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Client Sample ID: VMP-5-5-101212

Lab ID#: 1210376A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102320**	**Date of Collection:**	**10/12/12 9:37:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/23/12 06:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	~~0.14 J~~ U	7.6	~~0.86 J~~ U
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	2.0 J	12	4.7 J
Isopentane	5.0	2.1 J	15	6.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-10-5-101612

Lab ID#: 1210376A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102319**	**Date of Collection:**	**10/16/12 11:11:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/23/12 05:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.41 J	7.5	2.0 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	Not Detected	11	Not Detected
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	14 J	36	32 J
2-Propanol	6.1	Not Detected	15	Not Detected
Carbon Disulfide	6.1	Not Detected	19	Not Detected
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	Not Detected	53	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	8.0	5.3	28
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	5.3	5.2	18
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	8.2	7.1	38
Benzene	1.5	590	4.8	1900
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	2.8	6.2	12
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.2	Not Detected
Toluene	1.5	0.37 J	5.7	1.4 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-10-5-101612

Lab ID#: 1210376A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102319**	**Date of Collection:**	**10/16/12 11:11:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/23/12 05:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	Not Detected	6.6	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	0.64 J	7.4	3.1 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.25 J~~ U	7.4	~~1.2 J~~ U
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	6.1	Not Detected	45	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	36	14	85
Isopentane	6.1	64	18	190

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-10-10-101612

Lab ID#: 1210376A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102318**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.16**	**Date of Analysis:**	**10/23/12 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.39 J	7.8	1.9 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.5	Not Detected
Bromomethane	16	Not Detected	61	Not Detected
Chloroethane	6.3	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	8.9	Not Detected
Ethanol	6.3	Not Detected	12	Not Detected
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Acetone	16	10 J	38	24 J
2-Propanol	6.3	Not Detected	16	Not Detected
Carbon Disulfide	6.3	Not Detected	20	Not Detected
3-Chloropropene	6.3	Not Detected	20	Not Detected
Methylene Chloride	16	Not Detected	55	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.7	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Hexane	1.6	4.3	5.6	15
1,1-Dichloroethane	1.6	Not Detected	6.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.3	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.7	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.6	Not Detected
Cyclohexane	1.6	1.7	5.4	5.8
Carbon Tetrachloride	1.6	Not Detected	9.9	Not Detected
2,2,4-Trimethylpentane	1.6	4.6	7.4	21
Benzene	1.6	300	5.0	950
1,2-Dichloroethane	1.6	Not Detected	6.4	Not Detected
Heptane	1.6	0.95 J	6.5	3.9 J
Trichloroethene	1.6	Not Detected	8.5	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.3	Not Detected
1,4-Dioxane	6.3	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.5	Not Detected
Toluene	1.6	~~0.22 J~~ U	6.0	~~0.83 J~~ U
trans-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.6	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.3	Not Detected	26	Not Detected

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Client Sample ID: VMP-10-10-101612

Lab ID#: 1210376A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102318**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.16**	**Date of Analysis:**	**10/23/12 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.3	Not Detected
Ethyl Benzene	1.6	0.72 J	6.9	3.2 J
m,p-Xylene	1.6	1.6	6.9	6.8
o-Xylene	1.6	Not Detected	6.9	Not Detected
Styrene	1.6	Not Detected	6.7	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	0.44 J	7.8	2.2 J
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	~~0.23 J~~ U	7.8	~~1.1 J~~ U
4-Ethyltoluene	1.6	Not Detected	7.8	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.5	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.5	Not Detected
1,2,4-Trichlorobenzene	6.3	Not Detected	47	Not Detected
Hexachlorobutadiene	6.3	Not Detected	67	Not Detected
Butane	6.3	35	15	84
Isopentane	6.3	45	19	130

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102317**	**Date of Collection:**	**10/16/12 9:16:00 AM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/23/12 04:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.0	2.2 J
Freon 114	1.4	Not Detected	9.9	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.7	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.0	Not Detected
Ethanol	5.7	6.3	11	12
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	12 J	34	28 J
2-Propanol	5.7	19	14	47
Carbon Disulfide	5.7	Not Detected	18	Not Detected
3-Chloropropene	5.7	Not Detected	18	Not Detected
Methylene Chloride	14	2.4 J	49	8.2 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	Not Detected	5.0	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.7	1.3 J	17	3.8 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	1.1 J	4.2	3.3 J
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	3.8	6.6	18
Benzene	1.4	0.94 J	4.5	3.0 J
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.7	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.5	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	0.96 J	5.3	3.6 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected
2-Hexanone	5.7	Not Detected	23	Not Detected

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Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102317**	**Date of Collection:**	**10/16/12 9:16:00 AM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/23/12 04:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.0	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	7.0	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.7	Not Detected	42	Not Detected
Hexachlorobutadiene	5.7	Not Detected	60	Not Detected
Butane	5.7	Not Detected	13	Not Detected
Isopentane	5.7	6.4	17	19

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: VMP-11-8-101612

Lab ID#: 1210376A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102316**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.86**	**Date of Analysis:**	**10/23/12 04:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.56 J	7.1	2.8 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.7	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.0	Not Detected
Ethanol	5.7	25	11	47
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	34	34	80
2-Propanol	5.7	390	14	970
Carbon Disulfide	5.7	Not Detected	18	Not Detected
3-Chloropropene	5.7	Not Detected	18	Not Detected
Methylene Chloride	14	2.7 J	50	9.3 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.92 J	5.0	3.2 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.7	6.9	17	20
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	18	4.2	55
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.8	Not Detected
Cyclohexane	1.4	0.48 J	4.9	1.7 J
Carbon Tetrachloride	1.4	Not Detected	9.0	Not Detected
2,2,4-Trimethylpentane	1.4	0.41 J	6.7	1.9 J
Benzene	1.4	3.8	4.6	12
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.7	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.6	Not Detected
1,4-Dioxane	5.7	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.6	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.5	Not Detected
4-Methyl-2-pentanone	1.4	0.28 J	5.8	1.2 J
Toluene	1.4	4.8	5.4	18
trans-1,3-Dichloropropene	1.4	Not Detected	6.5	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.8	Not Detected
Tetrachloroethene	1.4	Not Detected	9.7	Not Detected
2-Hexanone	5.7	Not Detected	23	Not Detected

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Client Sample ID: VMP-11-8-101612

Lab ID#: 1210376A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102316**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.86**	**Date of Analysis:**	**10/23/12 04:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.2	Not Detected
m,p-Xylene	1.4	~~0.59 J~~ U	6.2	~~2.6 J~~ U
o-Xylene	1.4	Not Detected	6.2	Not Detected
Styrene	1.4	Not Detected	6.1	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.0	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.8	Not Detected
Propylbenzene	1.4	Not Detected	7.0	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.4	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
1,2,4-Trichlorobenzene	5.7	Not Detected	42	Not Detected
Hexachlorobutadiene	5.7	Not Detected	61	Not Detected
Butane	5.7	Not Detected	14	Not Detected
Isopentane	5.7	5.1 J	17	15 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102315**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/23/12 03:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	22	11	41
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	27	34	65
2-Propanol	5.8	410	14	1000
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.35 J~~ U	50	~~1.2 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.76 J	5.1	2.7 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	7.3	17	22
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	20	4.3	60
Chloroform	1.4	0.86 J	7.0	4.2 J
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.62 J	5.0	2.1 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	0.40 J	6.8	1.9 J
Benzene	1.4	3.8	4.6	12
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.9	Not Detected
Toluene	1.4	4.2	5.4	16
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102315**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/23/12 03:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	~~0.67 J~~ U	6.3	~~2.9 J~~ U
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	~~0.13 J~~ U	8.7	~~0.79 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	1.1 J	17	3.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-11-38-101612

Lab ID#: 1210376A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102227**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/23/12 07:41 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.52 J	7.4	2.6 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	3.6 J	31	7.5 J
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	6.0	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.4	Not Detected
Ethanol	6.0	2.7 J	11	5.0 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	11 J	36	26 J
2-Propanol	6.0	6.2	15	15
Carbon Disulfide	6.0	24	19	74
3-Chloropropene	6.0	Not Detected	19	Not Detected
Methylene Chloride	15	Not Detected	52	Not Detected
Methyl tert-butyl ether	1.5	3.0	5.4	11
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.65 J	5.3	2.3 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.0	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	5.8	7.3	28
1,1,1-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Cyclohexane	1.5	1.5	5.2	5.0
Carbon Tetrachloride	1.5	Not Detected	9.4	Not Detected
2,2,4-Trimethylpentane	1.5	5.0	7.0	23
Benzene	1.5	3.1	4.8	10
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	6.0	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	~~0.25 J~~	5.6	~~0.93 J~~
trans-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.0	Not Detected	24	Not Detected

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Client Sample ID: VMP-11-38-101612

Lab ID#: 1210376A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102227**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/23/12 07:41 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	6.9	Not Detected
Ethyl Benzene	1.5	Not Detected	6.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.5	Not Detected
o-Xylene	1.5	Not Detected	6.5	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,4-Dichlorobenzene	1.5	~~0.10 J~~ U	9.0	~~0.93 J~~ U
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,2,4-Trichlorobenzene	6.0	Not Detected	44	Not Detected
Hexachlorobutadiene	6.0	Not Detected	64	Not Detected
Butane	6.0	4.9 J	14	12 J
Isopentane	6.0	11	18	32

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102226**	**Date of Collection:**	**10/12/12 9:45:00 AM**
Dil. Factor:	**3.09**	**Date of Analysis:**	**10/23/12 06:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.6	2.4 J
Freon 114	1.5	Not Detected	11	Not Detected
Chloromethane	15	Not Detected	32	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.7	Not Detected
Ethanol	6.2	19	12	36
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.1	Not Detected
Acetone	15	7.2 J	37	17 J
2-Propanol	6.2	10	15	26
Carbon Disulfide	6.2	Not Detected	19	Not Detected
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	15	~~0.40 J~~	54	~~1.4 J~~
Methyl tert-butyl ether	1.5	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.1	Not Detected
Hexane	1.5	Not Detected	5.4	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	2.3 J	18	6.7 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.1	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.6	Not Detected
Chloroform	1.5	Not Detected	7.5	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.4	Not Detected
Cyclohexane	1.5	Not Detected	5.3	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	1.5	1.7	7.2	8.0
Benzene	1.5	14	4.9	46
1,2-Dichloroethane	1.5	Not Detected	6.2	Not Detected
Heptane	1.5	Not Detected	6.3	Not Detected
Trichloroethene	1.5	Not Detected	8.3	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.1	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.5	15	6.3	60
Toluene	1.5	2.9	5.8	11
trans-1,3-Dichloropropene	1.5	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.4	Not Detected
Tetrachloroethene	1.5	1.1 J	10	7.5 J
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102226**	**Date of Collection:**	**10/12/12 9:45:00 AM**
Dil. Factor:	**3.09**	**Date of Analysis:**	**10/23/12 06:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.1	Not Detected
Ethyl Benzene	1.5	Not Detected	6.7	Not Detected
m,p-Xylene	1.5	Not Detected	6.7	Not Detected
o-Xylene	1.5	Not Detected	6.7	Not Detected
Styrene	1.5	Not Detected	6.6	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	0.89 J	7.6	4.4 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	11	Not Detected
Propylbenzene	1.5	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.6	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.6	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.6	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.5	~~0.17 J~~	9.3	~~1.0 J~~
alpha-Chlorotoluene	1.5	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	Not Detected	15	Not Detected
Isopentane	6.2	Not Detected	18	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-42-20-101212

Lab ID#: 1210376A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102225**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**2.73**	**Date of Analysis:**	**10/22/12 10:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.5	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	53	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.26 J	7.7	1.5 J
Ethanol	5.5	4.8 J	10	9.1 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Acetone	14	5.4 J	32	13 J
2-Propanol	5.5	3.7 J	13	9.0 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	5.6 J	47	20 J
Methyl tert-butyl ether	1.4	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Hexane	1.4	Not Detected	4.8	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.0	Not Detected
Chloroform	1.4	7.1	6.7	35
1,1,1-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Cyclohexane	1.4	Not Detected	4.7	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.6	Not Detected
2,2,4-Trimethylpentane	1.4	2.4	6.4	11
Benzene	1.4	2.1	4.4	6.7
1,2-Dichloroethane	1.4	Not Detected	5.5	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.3	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.3	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.1	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
4-Methyl-2-pentanone	1.4	1.3 J	5.6	5.4 J
Toluene	1.4	0.52 J	5.1	2.0 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Tetrachloroethene	1.4	Not Detected	9.2	Not Detected
2-Hexanone	5.5	Not Detected	22	Not Detected

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Client Sample ID: VMP-42-20-101212

Lab ID#: 1210376A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102225**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**2.73**	**Date of Analysis:**	**10/22/12 10:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	10	Not Detected
Chlorobenzene	1.4	Not Detected	6.3	Not Detected
Ethyl Benzene	1.4	Not Detected	5.9	Not Detected
m,p-Xylene	1.4	Not Detected	5.9	Not Detected
o-Xylene	1.4	Not Detected	5.9	Not Detected
Styrene	1.4	Not Detected	5.8	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.7	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.4	Not Detected
Propylbenzene	1.4	Not Detected	6.7	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.7	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.7	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.7	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	40	Not Detected
Hexachlorobutadiene	5.5	Not Detected	58	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.2 J	16	3.5 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102224**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 09:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.33 J	7.8	1.8 J
Ethanol	5.5	19 J	10	36 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	10 J	33	24 J
2-Propanol	5.5	5.7	14	14
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	~~0.53 J~~ U	48	~~1.8 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.50 J	4.9	1.8 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	1.8 J	16	5.4 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	1.0 J	4.1	3.0 J
Chloroform	1.4	7.3	6.7	36
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.33 J	4.8	1.1 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.83 J	6.4	3.9 J
Benzene	1.4	2.5	4.4	8.0
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	1.3 J	5.6	5.4 J
Toluene	1.4	2.3	5.2	8.7
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102224**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 09:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	~~0.40 J~~ u	6.0	~~1.7 J~~ u
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	2.0 J	13	4.9 J
Isopentane	5.5	10	16	30

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102223**	**Date of Collection:**	**10/12/12 11:44:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/22/12 09:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.44 J	7.1	2.2 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	4.1 J	30	8.5 J
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	1.2 J	8.1	6.9 J
Ethanol	5.8	5.8	11	11
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	13 J	34	31 J
2-Propanol	5.8	3.3 J	14	8.0 J
Carbon Disulfide	5.8	5.9	18	18
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.31 J~~ U	50	~~1.1 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	17	5.1	60
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	1.7 J	17	5.0 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	1.0 J	7.0	5.0 J
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	2.6	5.0	9.0
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	100	6.8	490
Benzene	1.4	3.6	4.6	11
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.87 J	5.9	3.6 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	2.3	5.9	9.4
Toluene	1.4	0.95 J	5.4	3.6 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102223**	**Date of Collection:**	**10/12/12 11:44:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/22/12 09:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	230	14	560
Isopentane	5.8	140	17	420

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-42-30-101212-Dup

Lab ID#: 1210376A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102221**	**Date of Collection:**	**10/12/12 11:44:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/22/12 07:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.48 J	7.1	2.4 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	4.4 J	30	9.1 J
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	1.2 J	8.1	7.0 J
Ethanol	5.8	5.4 J	11	10 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	9.0 J	34	21 J
2-Propanol	5.8	1.8 J	14	4.5 J
Carbon Disulfide	5.8	5.9	18	18
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	1.0 J	50	3.7 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	16	5.1	57
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	1.0 J	7.0	5.1 J
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	2.7	5.0	9.3
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	100	6.8	470
Benzene	1.4	2.3	4.6	7.2
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.75 J	5.9	3.1 J
Trichloroethene	1.4	~~0.46 J~~ U	7.8	~~2.5 J~~ U
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	2.6	5.9	10
Toluene	1.4	0.91 J	5.4	3.4 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-42-30-101212-Dup

Lab ID#: 1210376A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102221**	**Date of Collection: 10/12/12 11:44:00 A**	
Dil. Factor:	**2.89**	**Date of Analysis: 10/22/12 07:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.3	Not Detected
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.1	Not Detected
1,1,2,2-Tetrachloroethane	1.4	0.83 J	9.9	5.7 J
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	230	14	540
Isopentane	5.8	140	17	400

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102220**	**Date of Collection:**	**10/15/12 11:03:00 A**
Dil. Factor:	**2.91**	**Date of Analysis:**	**10/22/12 07:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	7.2	2.1 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.25 J	8.2	1.4 J
Ethanol	5.8	Not Detected	11	Not Detected
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Acetone	14	6.5 J	34	15 J
2-Propanol	5.8	Not Detected	14	Not Detected
Carbon Disulfide	5.8	~~1.4 J~~ U	18	~~4.5 J~~ U
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	50	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Hexane	1.4	0.29 J	5.1	1.0 J
1,1-Dichloroethane	1.4	Not Detected	5.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	1.1 J	7.1	5.2 J
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.27 J	5.0	0.93 J
Carbon Tetrachloride	1.4	Not Detected	9.2	Not Detected
2,2,4-Trimethylpentane	1.4	8.0	6.8	38
Benzene	1.4	1.1 J	4.6	3.6 J
1,2-Dichloroethane	1.4	Not Detected	5.9	Not Detected
Heptane	1.4	Not Detected	6.0	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	6.0	Not Detected
Toluene	1.4	0.37 J	5.5	1.4 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.9	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102220**	**Date of Collection:**	**10/15/12 11:03:00 A**
Dil. Factor:	**2.91**	**Date of Analysis:**	**10/22/12 07:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.7	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	~~0.53 J~~ u	6.3	~~2.3 J~~ u
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.2	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	10	Not Detected
Propylbenzene	1.4	Not Detected	7.2	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.2	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.2	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.31 J~~ u	7.2	~~1.5 J~~ u
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	2.3 J	17	6.8 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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* Use these results only. All other data was reported from the 2.76x dilution analysis.

Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102222**	**Date of Collection:**	**10/15/12 3:45:00 PM**
Dil. Factor:	**4.60**	**Date of Analysis:**	**10/22/12 08:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.3	0.43 J	11	2.1 J
Freon 114	2.3	Not Detected	16	Not Detected
Chloromethane	23	Not Detected	47	Not Detected
Vinyl Chloride	2.3	Not Detected	5.9	Not Detected
1,3-Butadiene	2.3	Not Detected	5.1	Not Detected
Bromomethane	23	Not Detected	89	Not Detected
Chloroethane	9.2	Not Detected	24	Not Detected
Freon 11	2.3	Not Detected	13	Not Detected
Ethanol	9.2	Not Detected	17	Not Detected
Freon 113	2.3	Not Detected	18	Not Detected
1,1-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Acetone	23	7.3 J	55	17 J
2-Propanol	9.2	30	23	74
Carbon Disulfide	9.2	Not Detected	29	Not Detected
3-Chloropropene	9.2	Not Detected	29	Not Detected
Methylene Chloride	23	Not Detected	80	Not Detected
Methyl tert-butyl ether	2.3	Not Detected	8.3	Not Detected
trans-1,2-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Hexane	2.3	1.5 J	8.1	5.4 J
1,1-Dichloroethane	2.3	Not Detected	9.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.2	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Tetrahydrofuran	2.3	Not Detected	6.8	Not Detected
Chloroform	2.3	3.4	11	16
1,1,1-Trichloroethane	2.3	Not Detected	12	Not Detected
Cyclohexane	2.3	1.6 J	7.9	5.7 J
Carbon Tetrachloride	2.3	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	2.3	730	11	3400
Benzene	2.3	1.9 J	7.3	6.2 J
1,2-Dichloroethane	2.3	Not Detected	9.3	Not Detected
Heptane	2.3	Not Detected	9.4	Not Detected
Trichloroethene	2.3	Not Detected	12	Not Detected
1,2-Dichloropropane	2.3	Not Detected	11	Not Detected
1,4-Dioxane	9.2	Not Detected	33	Not Detected
Bromodichloromethane	2.3	Not Detected	15	Not Detected
cis-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
4-Methyl-2-pentanone	2.3	1.4 J	9.4	5.6 J
Toluene	2.3	0.79 J	8.7	3.0 J
trans-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.3	Not Detected	12	Not Detected
Tetrachloroethene	2.3	Not Detected	16	Not Detected
2-Hexanone	9.2	Not Detected	38	Not Detected

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Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102222**	**Date of Collection:**	**10/15/12 3:45:00 PM**
Dil. Factor:	**4.60**	**Date of Analysis:**	**10/22/12 08:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.3	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	2.3	Not Detected	18	Not Detected
Chlorobenzene	2.3	Not Detected	10	Not Detected
Ethyl Benzene	2.3	Not Detected	10	Not Detected
m,p-Xylene	2.3	Not Detected	10	Not Detected
o-Xylene	2.3	Not Detected	10	Not Detected
Styrene	2.3	Not Detected	9.8	Not Detected
Bromoform	2.3	Not Detected	24	Not Detected
Cumene	2.3	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.3	Not Detected	16	Not Detected
Propylbenzene	2.3	Not Detected	11	Not Detected
4-Ethyltoluene	2.3	Not Detected	11	Not Detected
1,3,5-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.3	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.3	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.3	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	9.2	Not Detected	68	Not Detected
Hexachlorobutadiene	9.2	Not Detected	98	Not Detected
Butane	9.2	22	22	52
Isopentane	9.2	20	27	58

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376A-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102219**	**Date of Collection:**	**10/15/12 3:45:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 06:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	2.3 J	10	4.4 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	7.0 J	33	16 J
2-Propanol	5.5	29	14	72
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	1.1 J	4.9	3.9 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	3.3	6.7	16
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	1.9	4.8	6.4
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
* 2,2,4-Trimethylpentane	1.4	690 E	6.4	3200 E
Benzene	1.4	1.7	4.4	5.3
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.44 J	5.6	1.8 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	1.8	5.6	7.6
Toluene	1.4	0.83 J	5.2	3.1 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376A-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102219**	**Date of Collection:**	**10/15/12 3:45:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 06:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	~~0.24 J~~ U	6.8	~~1.2 J~~ U
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	20	13	48
Isopentane	5.5	18	16	54

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102218**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 06:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	6.8	2.5 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.62 J	7.8	3.5 J
Ethanol	5.5	1.9 J	10	3.5 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	10 J	33	25 J
2-Propanol	5.5	1.2 J	14	3.0 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	1.2 J	4.9	4.4 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	2.2 J	16	6.4 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	4.0	6.7	20
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	2.1	4.8	7.1
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	380	6.4	1800
Benzene	1.4	1.6	4.4	5.2
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	~~0.34 J~~ 4	5.2	~~1.3 J~~ 4
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102218**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/22/12 06:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	~~0.10 J~~ 4	8.3	~~0.62 J~~ 4
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	14	13	34
Isopentane	5.5	13	16	39

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: VMP-45-30-101512-Dup

Lab ID#: 1210376A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102217**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.73**	**Date of Analysis:**	**10/22/12 05:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.61 J	6.8	3.0 J
Freon 114	1.4	Not Detected	9.5	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	53	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.70 J	7.7	3.9 J
Ethanol	5.5	Not Detected	10	Not Detected
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Acetone	14	5.6 J	32	13 J
2-Propanol	5.5	Not Detected	13	Not Detected
Carbon Disulfide	5.5	~~0.86 J~~ U	17	~~2.7 J~~ U
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	~~0.25 J~~ U	47	~~0.88 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Hexane	1.4	0.98 J	4.8	3.5 J
1,1-Dichloroethane	1.4	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.0	Not Detected
Chloroform	1.4	4.3	6.7	21
1,1,1-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Cyclohexane	1.4	2.2	4.7	7.5
Carbon Tetrachloride	1.4	Not Detected	8.6	Not Detected
2,2,4-Trimethylpentane	1.4	400	6.4	1900
Benzene	1.4	1.6	4.4	5.1
1,2-Dichloroethane	1.4	Not Detected	5.5	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.3	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.3	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.1	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	~~0.33 J~~ U	5.1	~~1.2 J~~ U
trans-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Tetrachloroethene	1.4	Not Detected	9.2	Not Detected
2-Hexanone	5.5	Not Detected	22	Not Detected

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Client Sample ID: VMP-45-30-101512-Dup

Lab ID#: 1210376A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102217**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.73**	**Date of Analysis:**	**10/22/12 05:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	10	Not Detected
Chlorobenzene	1.4	Not Detected	6.3	Not Detected
Ethyl Benzene	1.4	Not Detected	5.9	Not Detected
m,p-Xylene	1.4	Not Detected	5.9	Not Detected
o-Xylene	1.4	Not Detected	5.9	Not Detected
Styrene	1.4	Not Detected	5.8	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.7	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.4	Not Detected
Propylbenzene	1.4	Not Detected	6.7	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.7	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.7	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.7	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	40	Not Detected
Hexachlorobutadiene	5.5	Not Detected	58	Not Detected
Butane	5.5	17	13	40
Isopentane	5.5	15	16	44

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102216**	**Date of Collection:**	**10/16/12 2:16:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/22/12 05:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.44 J	7.9	2.2 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	1.6	Not Detected	4.1	Not Detected
1,3-Butadiene	1.6	Not Detected	3.5	Not Detected
Bromomethane	16	Not Detected	62	Not Detected
Chloroethane	6.4	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.0	Not Detected
Ethanol	6.4	3.0 J	12	5.6 J
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Acetone	16	32	38	77
2-Propanol	6.4	Not Detected	16	Not Detected
Carbon Disulfide	6.4	2.1 J	20	6.6 J
3-Chloropropene	6.4	Not Detected	20	Not Detected
Methylene Chloride	16	Not Detected	55	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Hexane	1.6	0.99 J	5.6	3.5 J
1,1-Dichloroethane	1.6	Not Detected	6.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.4	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	1.6	Not Detected	7.8	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Cyclohexane	1.6	0.46 J	5.5	1.6 J
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	1.3 J	7.4	5.9 J
Benzene	1.6	49	5.1	160
1,2-Dichloroethane	1.6	Not Detected	6.4	Not Detected
Heptane	1.6	Not Detected	6.5	Not Detected
Trichloroethene	1.6	Not Detected	8.6	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.4	Not Detected
1,4-Dioxane	6.4	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.5	Not Detected
Toluene	1.6	~~0.21 J~~ U	6.0	~~0.81 J~~ U
trans-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.4	Not Detected	26	Not Detected

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Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102216**	**Date of Collection:**	**10/16/12 2:16:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/22/12 05:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.3	Not Detected
Ethyl Benzene	1.6	Not Detected	6.9	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	1.6	Not Detected	6.9	Not Detected
Styrene	1.6	Not Detected	6.8	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	Not Detected	7.8	Not Detected
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	~~0.39 J~~ U	7.8	~~1.9 J~~ U
4-Ethyltoluene	1.6	1.4 J	7.8	6.7 J
1,3,5-Trimethylbenzene	1.6	0.53 J	7.8	2.6 J
1,2,4-Trimethylbenzene	1.6	~~0.71 J~~ U	7.8	~~3.5 J~~ U
1,3-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,2,4-Trichlorobenzene	6.4	Not Detected	47	Not Detected
Hexachlorobutadiene	6.4	Not Detected	68	Not Detected
Butane	6.4	5.5 J	15	13 J
Isopentane	6.4	13	19	38

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102215**	**Date of Collection:**	**10/16/12 3:03:00 PM**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/22/12 04:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.53 J	7.4	2.6 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	6.0	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.4	Not Detected
Ethanol	6.0	12	11	22
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	34	36	81
2-Propanol	6.0	4.3 J	15	10 J
Carbon Disulfide	6.0	Not Detected	19	Not Detected
3-Chloropropene	6.0	Not Detected	19	Not Detected
Methylene Chloride	15	1.5 J	52	5.3 J
Methyl tert-butyl ether	1.5	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	1.3 J	5.3	4.6 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.0	2.0 J	18	5.9 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	0.47 J	4.4	1.4 J
Chloroform	1.5	Not Detected	7.3	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Cyclohexane	1.5	0.58 J	5.2	2.0 J
Carbon Tetrachloride	1.5	Not Detected	9.4	Not Detected
2,2,4-Trimethylpentane	1.5	6.1	7.0	28
Benzene	1.5	9.2	4.8	29
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	0.51 J	6.1	2.1 J
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	6.0	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	2.0	5.6	7.7
trans-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.0	Not Detected	24	Not Detected

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Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102215**	**Date of Collection:**	**10/16/12 3:03:00 PM**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/22/12 04:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	6.9	Not Detected
Ethyl Benzene	1.5	Not Detected	6.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.5	Not Detected
o-Xylene	1.5	Not Detected	6.5	Not Detected
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	Not Detected	7.4	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.4	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,3-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,2,4-Trichlorobenzene	6.0	Not Detected	44	Not Detected
Hexachlorobutadiene	6.0	Not Detected	64	Not Detected
Butane	6.0	Not Detected	14	Not Detected
Isopentane	6.0	9.0	18	26

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210376A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102206e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 11:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.33 J	6.2	1.0 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.15 J	17	0.51 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.086 J	2.0	0.35 J
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	0.15 J	2.7	0.83 J
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.069 J	1.9	0.26 J
trans-1,3-Dichloropropene	0.50	0.17 J	2.3	0.76 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.11 J	3.4	0.72 J
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210376A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102206e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 11:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.12 J	3.8	0.90 J
Chlorobenzene	0.50	0.097 J	2.3	0.45 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.20 J	2.2	0.88 J
o-Xylene	0.50	0.16 J	2.2	0.68 J
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.076 J	2.4	0.38 J
1,1,2,2-Tetrachloroethane	0.50	0.071 J	3.4	0.49 J
Propylbenzene	0.50	0.12 J	2.4	0.60 J
4-Ethyltoluene	0.50	0.11 J	2.4	0.55 J
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	0.14 J	2.4	0.70 J
1,3-Dichlorobenzene	0.50	0.22 J	3.0	1.3 J
1,4-Dichlorobenzene	0.50	0.26 J	3.0	1.5 J
alpha-Chlorotoluene	0.50	0.12 J	2.6	0.60 J
1,2-Dichlorobenzene	0.50	0.16 J	3.0	1.0 J
1,2,4-Trichlorobenzene	2.0	0.63 J	15	4.7 J
Hexachlorobutadiene	2.0	0.44 J	21	4.7 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: Lab Blank

Lab ID#: 1210376A-19B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102306e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 11:21 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.33 J	6.2	1.0 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.17 J	17	0.60 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.11 J	2.0	0.46 J
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.070 J	1.9	0.26 J
trans-1,3-Dichloropropene	0.50	0.14 J	2.3	0.64 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210376A-19B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102306e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 11:21 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.12 J	3.8	0.93 J
Chlorobenzene	0.50	0.10 J	2.3	0.46 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.14 J	2.2	0.62 J
o-Xylene	0.50	0.15 J	2.2	0.66 J
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	0.073 J	3.4	0.50 J
Propylbenzene	0.50	0.10 J	2.4	0.52 J
4-Ethyltoluene	0.50	0.12 J	2.4	0.60 J
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	0.14 J	2.4	0.70 J
1,3-Dichlorobenzene	0.50	0.21 J	3.0	1.3 J
1,4-Dichlorobenzene	0.50	0.26 J	3.0	1.6 J
alpha-Chlorotoluene	0.50	0.12 J	2.6	0.65 J
1,2-Dichlorobenzene	0.50	0.24 J	3.0	1.4 J
1,2,4-Trichlorobenzene	2.0	0.72 J	15	5.3 J
Hexachlorobutadiene	2.0	0.36 J	21	3.8 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1210376A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 08:50 AM**	

Compound	%Recovery
Freon 12	100
Freon 114	92
Chloromethane	103
Vinyl Chloride	96
1,3-Butadiene	102
Bromomethane	92
Chloroethane	93
Freon 11	101
Ethanol	102
Freon 113	97
1,1-Dichloroethene	94
Acetone	97
2-Propanol	108
Carbon Disulfide	95
3-Chloropropene	95
Methylene Chloride	107
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	94
Hexane	101
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	94
Tetrahydrofuran	110
Chloroform	96
1,1,1-Trichloroethane	100
Cyclohexane	96
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	100
Benzene	99
1,2-Dichloroethane	105
Heptane	104
Trichloroethene	99
1,2-Dichloropropane	99
1,4-Dioxane	78
Bromodichloromethane	100
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	112
Toluene	98
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	97
Tetrachloroethene	94
2-Hexanone	108

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Client Sample ID: CCV

Lab ID#: 1210376A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 08:50 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	99
Chlorobenzene	95
Ethyl Benzene	98
m,p-Xylene	99
o-Xylene	100
Styrene	103
Bromoform	103
Cumene	100
1,1,2,2-Tetrachloroethane	98
Propylbenzene	100
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	92
Butane	96
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1210376A-20B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:09 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	92
Chloromethane	101
Vinyl Chloride	97
1,3-Butadiene	102
Bromomethane	97
Chloroethane	97
Freon 11	97
Ethanol	102
Freon 113	97
1,1-Dichloroethene	96
Acetone	100
2-Propanol	105
Carbon Disulfide	97
3-Chloropropene	99
Methylene Chloride	102
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	99
Hexane	101
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	97
Tetrahydrofuran	110
Chloroform	97
1,1,1-Trichloroethane	98
Cyclohexane	98
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	102
Benzene	103
1,2-Dichloroethane	105
Heptane	106
Trichloroethene	102
1,2-Dichloropropane	104
1,4-Dioxane	83
Bromodichloromethane	106
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	118
Toluene	102
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	101
Tetrachloroethene	98
2-Hexanone	115

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Client Sample ID: CCV

Lab ID#: 1210376A-20B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:09 AM**	

Compound	%Recovery
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	104
Chlorobenzene	99
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	104
Styrene	104
Bromoform	105
Cumene	103
1,1,2,2-Tetrachloroethane	99
Propylbenzene	102
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92
Butane	93
Isopentane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1210376A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:22 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	98
Chloromethane	112
Vinyl Chloride	102
1,3-Butadiene	108
Bromomethane	95
Chloroethane	100
Freon 11	107
Ethanol	97
Freon 113	103
1,1-Dichloroethene	105
Acetone	103
2-Propanol	112
Carbon Disulfide	122
3-Chloropropene	115
Methylene Chloride	110
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	113
Hexane	104
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	102
Tetrahydrofuran	111
Chloroform	102
1,1,1-Trichloroethane	106
Cyclohexane	102
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	106
Benzene	102
1,2-Dichloroethane	106
Heptane	103
Trichloroethene	103
1,2-Dichloropropane	102
1,4-Dioxane	73
Bromodichloromethane	105
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	112
Toluene	100
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	101
Tetrachloroethene	100
2-Hexanone	111

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Client Sample ID: LCS

Lab ID#: 1210376A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:22 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	103
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	105
o-Xylene	106
Styrene	108
Bromoform	105
Cumene	106
1,1,2,2-Tetrachloroethane	104
Propylbenzene	107
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	92
Butane	94
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1210376A-21AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:53 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	95
Chloromethane	107
Vinyl Chloride	101
1,3-Butadiene	104
Bromomethane	94
Chloroethane	97
Freon 11	102
Ethanol	97
Freon 113	102
1,1-Dichloroethene	104
Acetone	96
2-Propanol	107
Carbon Disulfide	120
3-Chloropropene	112
Methylene Chloride	104
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	110
Hexane	102
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	98
Tetrahydrofuran	106
Chloroform	98
1,1,1-Trichloroethane	101
Cyclohexane	99
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	103
Benzene	102
1,2-Dichloroethane	105
Heptane	104
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	78
Bromodichloromethane	106
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	112
Toluene	99
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	101
Tetrachloroethene	97
2-Hexanone	108

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Client Sample ID: LCSD

Lab ID#: 1210376A-21AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:53 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	102
Chlorobenzene	97
Ethyl Benzene	100
m,p-Xylene	103
o-Xylene	103
Styrene	104
Bromoform	102
Cumene	104
1,1,2,2-Tetrachloroethane	101
Propylbenzene	104
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	92
Butane	93
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1210376A-21B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:39 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	99
Chloromethane	108
Vinyl Chloride	104
1,3-Butadiene	108
Bromomethane	101
Chloroethane	101
Freon 11	103
Ethanol	96
Freon 113	104
1,1-Dichloroethene	108
Acetone	103
2-Propanol	107
Carbon Disulfide	124
3-Chloropropene	116
Methylene Chloride	105
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	115
Hexane	106
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	102
Tetrahydrofuran	109
Chloroform	101
1,1,1-Trichloroethane	105
Cyclohexane	104
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	107
Benzene	102
1,2-Dichloroethane	103
Heptane	105
Trichloroethene	103
1,2-Dichloropropane	101
1,4-Dioxane	80
Bromodichloromethane	105
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	114
Toluene	101
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	112

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Client Sample ID: LCS

Lab ID#: 1210376A-21B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:39 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	105
Chlorobenzene	100
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	105
Styrene	106
Bromoform	104
Cumene	105
1,1,2,2-Tetrachloroethane	101
Propylbenzene	104
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	92
Butane	96
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1210376A-21BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 10:12 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	98
Chloromethane	105
Vinyl Chloride	102
1,3-Butadiene	107
Bromomethane	99
Chloroethane	102
Freon 11	102
Ethanol	98
Freon 113	105
1,1-Dichloroethene	107
Acetone	103
2-Propanol	106
Carbon Disulfide	124
3-Chloropropene	117
Methylene Chloride	104
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	115
Hexane	105
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	101
Tetrahydrofuran	108
Chloroform	102
1,1,1-Trichloroethane	103
Cyclohexane	104
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	107
Benzene	106
1,2-Dichloroethane	104
Heptane	109
Trichloroethene	104
1,2-Dichloropropane	105
1,4-Dioxane	80
Bromodichloromethane	107
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	117
Toluene	103
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	101
Tetrachloroethene	99
2-Hexanone	112

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Client Sample ID: LCSD

Lab ID#: 1210376A-21BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 10:12 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	104
Chlorobenzene	99
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	104
Styrene	104
Bromoform	103
Cumene	104
1,1,2,2-Tetrachloroethane	101
Propylbenzene	103
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	92
Butane	94
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

1210376

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 97216640
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/16/12
PAGE: 1 of 2
PO #:
SAP #: 340051

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L.Rathnow, S. Jansen, C. Kretzer, M. Mittermeyer, M. Mansker, C. Williams.
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab use only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1945 + Helium	ASTM D-1946
01A	VMP-5-5-101212	10/12/12	0906-0937	9438	-29	-7			X	X	
02A	VMP-10-5-101612	10/16/12	1041-1111	15734	-30	-10			X	X	
03A	VMP-10-10-101612	10/16/12	1123-1153	37666	-29.5	-10.5			X	X	
04A	VMP-11-5-101612	10/16/12	0846-0916	37327	-28	-9			X	X	
05A	VMP-11-8-101612	10/16/12	0940-1010	37746	-28	-9.5			X	X	
06A	VMP-11-8-101612-Dup	10/16/12	0940-1010	37317	-29	-9.5			X	X	
07A	VMP-11-38-101612	10/16/12	1123-1153	35594	-29.5	-9.5			X	X	
08A	VMP-42-10-101212	10/12/12	0915-0945	37853	-30	-12.5			X	X	
09A	VMP-42-20-101212	10/12/12	1003-1033	8003	-30	-10			X	X	
10A	VMP-42-20-101212-Dup	10/12/12	1003-1033	33731	-28	-10			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/16/12	1800
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	10/17/12		0935
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NO N/A

fedex

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOMOM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/16/12
PO #:
SAP #: 3 4 0 0 6 1
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LAB/DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com
L.Rathnow, S. Jansen, C. Kretzer M. Mittermeyer, M. Mansker C. Williams

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
11A	VMP-42-30-101212	10/12/12	1112-1144	35837	-30	-11			X	X					
12A	VMP-42-30-101212-Dup	10/12/12	1112-1144	31793	-30	-10.5			X	X					
13A	VMP-45-10-101512	10/15/12	1030-1103	11832	-29.5	-9.5			X	X					
14A	VMP-45-20-101512	10/15/12	1513-1545	31799	-30	-8.5			X	X					
15A	VMP-45-30-101512	10/15/12	1423-1458	15724	-30	-8.5			X	X					
16A	VMP-45-30-101512-Dup	10/15/12	1423-1458	37699	-29.5	-9			X	X					
17A	VMP-10-20-101612	10/16/12	1345-1416	2057	-29.5	-10			X	X					
18A	VMP-10-30-101612	10/16/12	1432-1503	12367	-29.5	-9			X	X					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/16/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature) 10/17/12 0935	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date	Time:

06/06 Revision

CUSTODY SEAL INTACT? Y N NO

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10/31/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210376B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/17/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/18/12

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WORK ORDER #: 1210376B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/17/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/31/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-5-5-101212	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	VMP-10-5-101612	Modified ASTM D-1946	10.0 "Hg	15 psi
03A	VMP-10-10-101612	Modified ASTM D-1946	10.8 "Hg	15 psi
04A	VMP-11-5-101612	Modified ASTM D-1946	8.6 "Hg	15 psi
05A	VMP-11-8-101612	Modified ASTM D-1946	8.8 "Hg	15 psi
06A	VMP-11-8-101612-Dup	Modified ASTM D-1946	9.0 "Hg	15 psi
07A	VMP-11-38-101612	Modified ASTM D-1946	9.8 "Hg	15 psi
08A	VMP-42-10-101212	Modified ASTM D-1946	10.4 "Hg	15 psi
09A	VMP-42-20-101212	Modified ASTM D-1946	7.8 "Hg	15 psi
10A	VMP-42-20-101212-Dup	Modified ASTM D-1946	8.0 "Hg	15 psi
11A	VMP-42-30-101212	Modified ASTM D-1946	9.0 "Hg	15 psi
12A	VMP-42-30-101212-Dup	Modified ASTM D-1946	9.0 "Hg	15 psi
13A	VMP-45-10-101512	Modified ASTM D-1946	9.2 "Hg	15 psi
14A	VMP-45-20-101512	Modified ASTM D-1946	8.0 "Hg	15 psi
15A	VMP-45-30-101512	Modified ASTM D-1946	8.0 "Hg	15 psi
16A	VMP-45-30-101512-Dup	Modified ASTM D-1946	7.8 "Hg	15 psi
17A	VMP-10-20-101612	Modified ASTM D-1946	11.0 "Hg	15 psi
18A	VMP-10-30-101612	Modified ASTM D-1946	9.8 "Hg	15 psi
19A	Lab Blank	Modified ASTM D-1946	NA	NA
19B	Lab Blank	Modified ASTM D-1946	NA	NA
20A	LCS	Modified ASTM D-1946	NA	NA
20AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210376B

Eighteen 1 Liter Summa Canister samples were received on October 17, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-5-5-101212

Lab ID#: 1210376B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	20
Nitrogen	0.25	78
Methane	0.00025	0.00011 J
Carbon Dioxide	0.025	0.10
Helium	0.13	1.5

Client Sample ID: VMP-10-5-101612

Lab ID#: 1210376B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	80
Methane	0.00030	0.00032
Carbon Dioxide	0.030	2.1
Helium	0.15	0.047 J

Client Sample ID: VMP-10-10-101612

Lab ID#: 1210376B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	17
Nitrogen	0.32	80
Methane	0.00032	0.00026 J
Carbon Dioxide	0.032	2.7
Helium	0.16	0.049 J

Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	81

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376B-04A

Methane	0.00028	0.000053 J
Carbon Dioxide	0.028	4.2
Helium	0.14	0.028 J

Client Sample ID: VMP-11-8-101612

Lab ID#: 1210376B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Methane	0.00029	0.000059 J
Carbon Dioxide	0.029	4.0
Helium	0.14	0.037 J

Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Methane	0.00029	0.000044 J
Carbon Dioxide	0.029	4.2
Helium	0.14	0.040 J

Client Sample ID: VMP-11-38-101612

Lab ID#: 1210376B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	7.2
Nitrogen	0.30	80
Methane	0.00030	0.0023
Carbon Dioxide	0.030	13
Helium	0.15	0.10 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Methane	0.00031	0.000020 J
Carbon Dioxide	0.031	0.92

Client Sample ID: VMP-42-20-101212

Lab ID#: 1210376B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	18
Nitrogen	0.37	79
Methane	0.00037	0.000036 J
Carbon Dioxide	0.037	3.4
Helium	0.18	0.093 J

Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	78
Methane	0.00028	0.000047 J
Carbon Dioxide	0.028	3.3
Helium	0.14	0.051 J

Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	79
Methane	0.00029	0.0017

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376B-11A

Carbon Dioxide	0.029	8.2
Helium	0.14	0.035 J

Client Sample ID: VMP-42-30-101212-Dup

Lab ID#: 1210376B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	79
Methane	0.00029	0.0017
Carbon Dioxide	0.029	8.2
Helium	0.14	0.040 J

Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Methane	0.00029	0.000018 J
Carbon Dioxide	0.029	0.40
Helium	0.14	0.060 J

Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	80
Methane	0.00028	0.00076
Carbon Dioxide	0.028	2.4
Helium	0.14	0.028 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	80
Methane	0.00028	0.00050
Carbon Dioxide	0.028	4.1
Helium	0.14	0.030 J

Client Sample ID: VMP-45-30-101512-Dup

Lab ID#: 1210376B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	80
Methane	0.00027	0.00050
Carbon Dioxide	0.027	4.2
Helium	0.14	0.026 J

Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	15
Nitrogen	0.32	81
Methane	0.00032	0.000026 J
Carbon Dioxide	0.032	4.3
Helium	0.16	0.057 J

Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	15
Nitrogen	0.30	80

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376B-18A

Methane	0.00030	0.000095 J
Carbon Dioxide	0.030	5.1
Helium	0.15	0.040 J

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Client Sample ID: VMP-5-5-101212

Lab ID#: 1210376B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102532**	**Date of Collection:**	**10/12/12 9:37:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/25/12 04:54 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	20
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.00011 J
Carbon Dioxide	0.025	0.10
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	1.5

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-10-5-101612

Lab ID#: 1210376B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102533**	**Date of Collection:**	**10/16/12 11:11:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/25/12 05:44 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00032
Carbon Dioxide	0.030	2.1
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.047 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-10-10-101612

Lab ID#: 1210376B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102534**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.16**	**Date of Analysis:**	**10/25/12 06:12 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	17
Nitrogen	0.32	80
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.00026 J
Carbon Dioxide	0.032	2.7
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Helium	0.16	0.049 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-11-5-101612

Lab ID#: 1210376B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102535**	**Date of Collection:**	**10/16/12 9:16:00 AM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/25/12 06:33 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000053 J
Carbon Dioxide	0.028	4.2
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-11-8-101612

Lab ID#: 1210376B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102536**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.86**	**Date of Analysis:**	**10/25/12 07:02 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000059 J
Carbon Dioxide	0.029	4.0
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.037 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-11-8-101612-Dup

Lab ID#: 1210376B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102537**	**Date of Collection:**	**10/16/12 10:10:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/25/12 07:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000044 J
Carbon Dioxide	0.029	4.2
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-11-38-101612

Lab ID#: 1210376B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102538**	**Date of Collection:**	**10/16/12 11:53:00 A**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/25/12 07:47 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	7.2
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0023
Carbon Dioxide	0.030	13
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.10 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-42-10-101212

Lab ID#: 1210376B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102539**	**Date of Collection:**	**10/12/12 9:45:00 AM**
Dil. Factor:	**3.09**	**Date of Analysis:**	**10/25/12 08:13 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.000020 J
Carbon Dioxide	0.031	0.92
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-42-20-101212

Lab ID#: 1210376B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102540**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**3.66**	**Date of Analysis:**	**10/25/12 08:44 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	18
Nitrogen	0.37	79
Carbon Monoxide	0.037	Not Detected
Methane	0.00037	0.000036 J
Carbon Dioxide	0.037	3.4
Ethane	0.0037	Not Detected
Ethene	0.0037	Not Detected
Helium	0.18	0.093 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-42-20-101212-Dup

Lab ID#: 1210376B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102541**	**Date of Collection:**	**10/12/12 10:33:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/25/12 09:21 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	19
Nitrogen	0.28	78
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000047 J
Carbon Dioxide	0.028	3.3
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.051 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-42-30-101212

Lab ID#: 1210376B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102542**	**Date of Collection:**	**10/12/12 11:44:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/25/12 09:47 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.0017
Carbon Dioxide	0.029	8.2
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.035 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-42-30-101212-Dup

Lab ID#: 1210376B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102543**	**Date of Collection:**	**10/12/12 11:44:00 A**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/25/12 10:11 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.0017
Carbon Dioxide	0.029	8.2
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-45-10-101512

Lab ID#: 1210376B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102544**	**Date of Collection:**	**10/15/12 11:03:00 A**
Dil. Factor:	**2.91**	**Date of Analysis:**	**10/25/12 10:35 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000018 J
Carbon Dioxide	0.029	0.40
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.060 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-45-20-101512

Lab ID#: 1210376B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102545**	**Date of Collection:**	**10/15/12 3:45:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/25/12 10:56 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00076
Carbon Dioxide	0.028	2.4
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-45-30-101512

Lab ID#: 1210376B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102546**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/25/12 11:18 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00050
Carbon Dioxide	0.028	4.1
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.030 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-45-30-101512-Dup

Lab ID#: 1210376B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102547**	**Date of Collection:**	**10/15/12 2:58:00 PM**
Dil. Factor:	**2.73**	**Date of Analysis:**	**10/25/12 11:43 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.00050
Carbon Dioxide	0.027	4.2
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.14	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-10-20-101612

Lab ID#: 1210376B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102548**	**Date of Collection:**	**10/16/12 2:16:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/26/12 12:07 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	15
Nitrogen	0.32	81
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.000026 J
Carbon Dioxide	0.032	4.3
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Helium	0.16	0.057 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-10-30-101612

Lab ID#: 1210376B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102549**	**Date of Collection:**	**10/16/12 3:03:00 PM**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/26/12 12:31 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	15
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000095 J
Carbon Dioxide	0.030	5.1
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210376B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102529a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 03:11 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.077 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210376B-19B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102528b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 02:45 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210376B-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102527**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 02:17 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	98
Methane	100
Carbon Dioxide	101
Ethane	101
Ethene	98
Helium	100

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210376B-20AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102550**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 12:52 AM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	98
Methane	99
Carbon Dioxide	100
Ethane	100
Ethene	97
Helium	101

Container Type: NA - Not Applicable

1210376

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 10/16/12
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com
L.Rathnow, S. Jansen, C. Kretzer, M. Mittermeyer, M. Mansker, C. Williams.

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-5-5-101212	10/12/12	0906-0937	9438	-29	-7			X	X					
02A	VMP-10-5-101612	10/16/12	1041-1111	15734	-30	-10			X	X					
03A	VMP-10-10-101612	10/16/12	1123-1153	37666	-29.5	-10.5			X	X					
04A	VMP-11-5-101612	10/16/12	0846-0916	37327	-28	-9			X	X					
15A	VMP-11-8-101612	10/16/12	0940-1010	37746	-28	-9.5			X	X					
06A	VMP-11-8-101612-Dup	10/16/12	0940-1010	37317	-29	-9.5			X	X					
07A	VMP-11-38-101612	10/16/12	1123-1153	35594	-29.5	-9.5			X	X					
08A	VMP-42-10-101212	10/12/12	0915-0945	37653	-30	-12.5			X	X					
09A	VMP-42-20-101212	10/12/12	1003-1033	8003	-30	-10			X	X					
10A	VMP-42-20-101212-Dup	10/12/12	1003-1033	33731	-28	-10			X	X					

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/16/12	1800
Relinquished by: (Signature)	Received by: (Signature) 10/17/12 0935	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NO N/A

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 97216640
SAP #: 340061
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/16/12
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com
cc: L.Rathnow, S. Jansen, C. Kretzer M. Mittermeyer, M. Mansker C. Williams.

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab use only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1945
11A	VMP-42-30-101212	10/12/12	1112-1144	35637	-30	-11			X	X	
12A	VMP-42-30-101212-Dup	10/12/12	1112-1144	31793	-30	-10.5			X	X	
13A	VMP-45-10-101512	10/15/12	1030-1103	11832	-29.5	-9.5			X	X	
14A	VMP-45-20-101512	10/15/12	1513-1545	31799	-30	-8.5			X	X	
15A	VMP-45-30-101512	10/15/12	1423-1459	15724	-30	-8.5			X	X	
16A	VMP-45-30-101512-Dup	10/16/12	1423-1458	37699	-29.5	-9			X	X	
17A	VMP-10-20-101612	10/16/12	1345-1416	2057	-29.5	-10			X	X	
18A	VMP-10-30-101612	10/16/12	1432-1503	12367	-29.5	-9			X	X	
		10/16/12									

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/16/12	1800
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	10/17/12 0935		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

02/2003 Revision

CUSTODY SEAL INTACT? Y N NO
fedex

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210391A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/19/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-13-29.5-100912	VMP-44-10-101212
VMP-44-20-101212	VMP-44-30-101512
VMP-44-30-101512-Dup	-

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. The TO-15 LCS recoveries were outside evaluation criteria. Additionally, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210391A-06A	TO-15	Ethanol	0.64 ppbv / 1.2 µg/m^3
1210391A-06A	TO-15	Acetone	0.76 ppbv / 1.8 µg/m^3
1210391A-06A	TO-15	Methylene chloride	0.17 ppbv / 0.58 µg/m^3
1210391A-06A	TO-15	1,2,4-Trichlorobenzene	0.49 ppbv / 3.6 µg/m^3
1210391A-06B	TO-15	Ethanol	3.4 ppbv / 6.4 µg/m^3
1210391B-06A	Natural gases	Oxygen	0.021%
1210391B-06A	Natural gases	Nitrogen	0.076%

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210391A-08A	TO-15	Bromomethane	**132**/130	2	70-130/25
1210391A-08A	TO-15	Ethanol	**131**/128	2	70-130/25
1210391A-08A	TO-15	2-Propanol	**137**/127	8	70-130/25
1210391A-08A	TO-15	Carbon disulfide	**133**/130	2	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-44-30-101512-Dup	TO-15	Carbon disulfide	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-44-30-101512	VMP-44-30-101512-Dup

Were field duplicate sample RPDs within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties; qualifications are summarized in the following table.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-13-29.5-100912	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-44-10-101212	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-44-20-101212	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-44-30-101512	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-44-30-101512-Dup	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment

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10/31/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210391A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/17/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/19/12

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WORK ORDER #: 1210391A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/17/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/31/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-13-29.5-100912	Modified TO-15	10.0 "Hg	15 psi
02A	VMP-44-10-101212	Modified TO-15	8.5 "Hg	15 psi
03A	VMP-44-20-101212	Modified TO-15	9.5 "Hg	15 psi
04A	VMP-44-30-101512	Modified TO-15	10.0 "Hg	15 psi
05A	VMP-44-30-101512-Dup	Modified TO-15	8.5 "Hg	15 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA
08BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210391A

Five 1 Liter Summa Canister samples were received on October 17, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on all of the samples due to the presence of high level target species.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene on instrument MSD-2 was raised from 2.0 ppbv to 5.0 ppbv.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-13-29.5-100912

Lab ID#: 1210391A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	6100	8000	11000	15000
Methyl tert-butyl ether	1500	1300 J	5500	4800 J
Hexane	1500	790 J	5300	2800 J
Cyclohexane	1500	640 J	5200	2200 J
Carbon Tetrachloride	1500	230 J	9500	1500 J
2,2,4-Trimethylpentane	1500	970 J	7100	4500 J
Benzene	1500	200000	4800	630000
Trichloroethene	1500	280 J	8100	1500 J
Toluene	1500	380 J	5700	1400 J
Tetrachloroethene	1500	290 J	10000	2000 J
Ethyl Benzene	1500	310 J	6600	1300 J
m,p-Xylene	1500	150 J	6600	670 J
Butane	6100	22000	14000	51000
Isopentane	6100	25000	18000	74000

Client Sample ID: VMP-44-10-101212

Lab ID#: 1210391A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	280	140 J	1000	500 J
Hexane	280	3000	990	10000
Cyclohexane	280	3700	970	13000
2,2,4-Trimethylpentane	280	40000	1300	190000
Benzene	280	360	900	1100
Heptane	280	1900	1200	7800
Trichloroethene	280	99 J	1500	530 J
Toluene	280	41 J	1100	150 J
Tetrachloroethene	280	52 J	1900	350 J
Ethyl Benzene	280	45 J	1200	190 J
m,p-Xylene	280	46 J	1200	200 J
o-Xylene	280	38 J	1200	170 J
Isopentane	1100	3600	3300	11000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-44-20-101212

Lab ID#: 1210391A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	2300	360 J	4300	680 J
Methyl tert-butyl ether	570	240 J	2000	850 J
Hexane	570	6100	2000	21000
Cyclohexane	570	8400	2000	29000
2,2,4-Trimethylpentane	570	24000	2700	110000
Benzene	570	470 J	1800	1500 J
Heptane	570	410 J	2300	1700 J
Trichloroethene	570	140 J	3100	760 J
Toluene	570	44 J	2100	170 J
Tetrachloroethene	570	78 J	3900	530 J
m,p-Xylene	570	69 J	2500	300 J
o-Xylene	570	58 J	2500	250 J
Butane	2300	4000	5400	9400
Isopentane	2300	61000	6700	180000

Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	60	1400	210	4800
Cyclohexane	60	1700	210	5900
2,2,4-Trimethylpentane	60	6300	280	29000
Benzene	60	1200	190	4000
Heptane	60	150	250	630
Butane	240	2900	580	7000
Isopentane	240	14000	710	40000

Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	230	72 J J	700	220 J J
Hexane	56	1300	200	4700

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391A-05A

Cyclohexane	56	1700	190	5700
2,2,4-Trimethylpentane	56	6000	260	28000
Benzene	56	1200	180	3900
Heptane	56	140	230	600
Butane	230	2900	540	6900
Isopentane	230	13000	670	39000

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Client Sample ID: VMP-13-29.5-100912

Lab ID#: 1210391A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14102249**	**Date of Collection:**	**10/9/12 12:06:00 PM**
Dil. Factor:	**303**	**Date of Analysis:**	**10/23/12 01:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1500	Not Detected	7500	Not Detected
Freon 114	1500	Not Detected	10000	Not Detected
Chloromethane	6100	Not Detected	12000	Not Detected
Vinyl Chloride	1500	Not Detected	3900	Not Detected
1,3-Butadiene	1500	Not Detected	3400	Not Detected
Bromomethane	1500	Not Detected	5900	Not Detected
Chloroethane	6100	Not Detected	16000	Not Detected
Freon 11	1500	Not Detected	8500	Not Detected
Ethanol	6100	8000	11000	15000
Freon 113	1500	Not Detected	12000	Not Detected
1,1-Dichloroethene	1500	Not Detected	6000	Not Detected
Acetone	6100	Not Detected	14000	Not Detected
2-Propanol	6100	Not Detected	15000	Not Detected
Carbon Disulfide	1500	Not Detected	4700	Not Detected
3-Chloropropene	6100	Not Detected	19000	Not Detected
Methylene Chloride	1500	Not Detected	5300	Not Detected
Methyl tert-butyl ether	1500	1300 J	5500	4800 J
trans-1,2-Dichloroethene	1500	Not Detected	6000	Not Detected
Hexane	1500	790 J	5300	2800 J
1,1-Dichloroethane	1500	Not Detected	6100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6100	Not Detected	18000	Not Detected
cis-1,2-Dichloroethene	1500	Not Detected	6000	Not Detected
Tetrahydrofuran	1500	Not Detected	4500	Not Detected
Chloroform	1500	Not Detected	7400	Not Detected
1,1,1-Trichloroethane	1500	Not Detected	8300	Not Detected
Cyclohexane	1500	640 J	5200	2200 J
Carbon Tetrachloride	1500	230 J	9500	1500 J
2,2,4-Trimethylpentane	1500	970 J	7100	4500 J
Benzene	1500	200000	4800	630000
1,2-Dichloroethane	1500	Not Detected	6100	Not Detected
Heptane	1500	Not Detected	6200	Not Detected
Trichloroethene	1500	280 J	8100	1500 J
1,2-Dichloropropane	1500	Not Detected	7000	Not Detected
1,4-Dioxane	6100	Not Detected	22000	Not Detected
Bromodichloromethane	1500	Not Detected	10000	Not Detected
cis-1,3-Dichloropropene	1500	Not Detected	6900	Not Detected
4-Methyl-2-pentanone	1500	Not Detected	6200	Not Detected
Toluene	1500	380 J	5700	1400 J
trans-1,3-Dichloropropene	1500	Not Detected	6900	Not Detected
1,1,2-Trichloroethane	1500	Not Detected	8300	Not Detected
Tetrachloroethene	1500	290 J	10000	2000 J
2-Hexanone	6100	Not Detected	25000	Not Detected

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Client Sample ID: VMP-13-29.5-100912

Lab ID#: 1210391A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14102249**	**Date of Collection:**	**10/9/12 12:06:00 PM**
Dil. Factor:	**303**	**Date of Analysis:**	**10/23/12 01:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1500	Not Detected	13000	Not Detected
1,2-Dibromoethane (EDB)	1500	Not Detected	12000	Not Detected
Chlorobenzene	1500	Not Detected	7000	Not Detected
Ethyl Benzene	1500	310 J	6600	1300 J
m,p-Xylene	1500	150 J	6600	670 J
o-Xylene	1500	Not Detected	6600	Not Detected
Styrene	1500	Not Detected	6400	Not Detected
Bromoform	1500	Not Detected	16000	Not Detected
Cumene	1500	Not Detected	7400	Not Detected
1,1,2,2-Tetrachloroethane	1500	Not Detected	10000	Not Detected
Propylbenzene	1500	Not Detected	7400	Not Detected
4-Ethyltoluene	1500	Not Detected	7400	Not Detected
1,3,5-Trimethylbenzene	1500	Not Detected	7400	Not Detected
1,2,4-Trimethylbenzene	1500	Not Detected	7400	Not Detected
1,3-Dichlorobenzene	1500	Not Detected	9100	Not Detected
1,4-Dichlorobenzene	1500	Not Detected	9100	Not Detected
alpha-Chlorotoluene	1500	Not Detected	7800	Not Detected
1,2-Dichlorobenzene	1500	Not Detected	9100	Not Detected
1,2,4-Trichlorobenzene	6100	Not Detected	45000	Not Detected
Hexachlorobutadiene	6100	Not Detected	65000	Not Detected
Butane	6100	22000	14000	51000
Isopentane	6100	25000	18000	74000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-44-10-101212

Lab ID#: 1210391A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102251**	**Date of Collection:**	**10/12/12 10:56:00 A**
Dil. Factor:	**56.4**	**Date of Analysis:**	**10/23/12 02:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	2000	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	Not Detected	720	Not Detected
1,3-Butadiene	280	Not Detected	620	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	1100	Not Detected	3000	Not Detected
Freon 11	280	Not Detected	1600	Not Detected
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	Not Detected	2200	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2700	Not Detected
2-Propanol	1100	Not Detected	2800	Not Detected
Carbon Disulfide	280	Not Detected	880	Not Detected
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	Not Detected	980	Not Detected
Methyl tert-butyl ether	280	140 J	1000	500 J
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	3000	990	10000
1,1-Dichloroethane	280	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1100	Not Detected	3300	Not Detected
cis-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Tetrahydrofuran	280	Not Detected	830	Not Detected
Chloroform	280	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	280	Not Detected	1500	Not Detected
Cyclohexane	280	3700	970	13000
Carbon Tetrachloride	280	Not Detected	1800	Not Detected
2,2,4-Trimethylpentane	280	40000	1300	190000
Benzene	280	360	900	1100
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
Heptane	280	1900	1200	7800
Trichloroethene	280	99 J	1500	530 J
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4100	Not Detected
Bromodichloromethane	280	Not Detected	1900	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	280	Not Detected	1200	Not Detected
Toluene	280	41 J	1100	150 J
trans-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	52 J	1900	350 J
2-Hexanone	1100	Not Detected	4600	Not Detected

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Client Sample ID: VMP-44-10-101212

Lab ID#: 1210391A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102251**	**Date of Collection:**	**10/12/12 10:56:00 A**
Dil. Factor:	**56.4**	**Date of Analysis:**	**10/23/12 02:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	280	Not Detected	2400	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2200	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	45 J	1200	190 J
m,p-Xylene	280	46 J	1200	200 J
o-Xylene	280	38 J	1200	170 J
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	Not Detected	1400	Not Detected
4-Ethyltoluene	280	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1700	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected UJ	8400	Not Detected UJ
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected
Butane	1100	Not Detected	2700	Not Detected
Isopentane	1100	3600	3300	11000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-44-20-101212

Lab ID#: 1210391A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102252**	**Date of Collection:**	**10/12/12 11:47:00 A**
Dil. Factor:	**114**	**Date of Analysis:**	**10/23/12 02:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	570	Not Detected	2800	Not Detected
Freon 114	570	Not Detected	4000	Not Detected
Chloromethane	2300	Not Detected	4700	Not Detected
Vinyl Chloride	570	Not Detected	1400	Not Detected
1,3-Butadiene	570	Not Detected	1300	Not Detected
Bromomethane	570	Not Detected	2200	Not Detected
Chloroethane	2300	Not Detected	6000	Not Detected
Freon 11	570	Not Detected	3200	Not Detected
Ethanol	2300	360 J	4300	680 J
Freon 113	570	Not Detected	4400	Not Detected
1,1-Dichloroethene	570	Not Detected	2300	Not Detected
Acetone	2300	Not Detected	5400	Not Detected
2-Propanol	2300	Not Detected	5600	Not Detected
Carbon Disulfide	570	Not Detected	1800	Not Detected
3-Chloropropene	2300	Not Detected	7100	Not Detected
Methylene Chloride	570	Not Detected	2000	Not Detected
Methyl tert-butyl ether	570	240 J	2000	850 J
trans-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Hexane	570	6100	2000	21000
1,1-Dichloroethane	570	Not Detected	2300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2300	Not Detected	6700	Not Detected
cis-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Tetrahydrofuran	570	Not Detected	1700	Not Detected
Chloroform	570	Not Detected	2800	Not Detected
1,1,1-Trichloroethane	570	Not Detected	3100	Not Detected
Cyclohexane	570	8400	2000	29000
Carbon Tetrachloride	570	Not Detected	3600	Not Detected
2,2,4-Trimethylpentane	570	24000	2700	110000
Benzene	570	470 J	1800	1500 J
1,2-Dichloroethane	570	Not Detected	2300	Not Detected
Heptane	570	410 J	2300	1700 J
Trichloroethene	570	140 J	3100	760 J
1,2-Dichloropropane	570	Not Detected	2600	Not Detected
1,4-Dioxane	2300	Not Detected	8200	Not Detected
Bromodichloromethane	570	Not Detected	3800	Not Detected
cis-1,3-Dichloropropene	570	Not Detected	2600	Not Detected
4-Methyl-2-pentanone	570	Not Detected	2300	Not Detected
Toluene	570	44 J	2100	170 J
trans-1,3-Dichloropropene	570	Not Detected	2600	Not Detected
1,1,2-Trichloroethane	570	Not Detected	3100	Not Detected
Tetrachloroethene	570	78 J	3900	530 J
2-Hexanone	2300	Not Detected	9300	Not Detected

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Client Sample ID: VMP-44-20-101212

Lab ID#: 1210391A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102252**	**Date of Collection:**	**10/12/12 11:47:00 A**
Dil. Factor:	**114**	**Date of Analysis:**	**10/23/12 02:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	570	Not Detected	4800	Not Detected
1,2-Dibromoethane (EDB)	570	Not Detected	4400	Not Detected
Chlorobenzene	570	Not Detected	2600	Not Detected
Ethyl Benzene	570	Not Detected	2500	Not Detected
m,p-Xylene	570	69 J	2500	300 J
o-Xylene	570	58 J	2500	250 J
Styrene	570	Not Detected	2400	Not Detected
Bromoform	570	Not Detected	5900	Not Detected
Cumene	570	Not Detected	2800	Not Detected
1,1,2,2-Tetrachloroethane	570	Not Detected	3900	Not Detected
Propylbenzene	570	Not Detected	2800	Not Detected
4-Ethyltoluene	570	Not Detected	2800	Not Detected
1,3,5-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,2,4-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,3-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,4-Dichlorobenzene	570	Not Detected	3400	Not Detected
alpha-Chlorotoluene	570	Not Detected	3000	Not Detected
1,2-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,2,4-Trichlorobenzene	2300	Not Detected UJ	17000	Not Detected UJ
Hexachlorobutadiene	2300	Not Detected	24000	Not Detected
Butane	2300	4000	5400	9400
Isopentane	2300	61000	6700	180000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102121**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**121**	**Date of Analysis:**	**10/22/12 03:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	60	Not Detected	300	Not Detected
Freon 114	60	Not Detected	420	Not Detected
Chloromethane	600	Not Detected	1200	Not Detected
Vinyl Chloride	60	Not Detected	150	Not Detected
1,3-Butadiene	60	Not Detected	130	Not Detected
Bromomethane	600	Not Detected	2300	Not Detected
Chloroethane	240	Not Detected	640	Not Detected
Freon 11	60	Not Detected	340	Not Detected
Ethanol	240	Not Detected	460	Not Detected
Freon 113	60	Not Detected	460	Not Detected
1,1-Dichloroethene	60	Not Detected	240	Not Detected
Acetone	600	Not Detected	1400	Not Detected
2-Propanol	240	Not Detected	590	Not Detected
Carbon Disulfide	240	Not Detected	750	Not Detected
3-Chloropropene	240	Not Detected	760	Not Detected
Methylene Chloride	600	Not Detected	2100	Not Detected
Methyl tert-butyl ether	60	Not Detected	220	Not Detected
trans-1,2-Dichloroethene	60	Not Detected	240	Not Detected
Hexane	60	1400	210	4800
1,1-Dichloroethane	60	Not Detected	240	Not Detected
2-Butanone (Methyl Ethyl Ketone)	240	Not Detected	710	Not Detected
cis-1,2-Dichloroethene	60	Not Detected	240	Not Detected
Tetrahydrofuran	60	Not Detected	180	Not Detected
Chloroform	60	Not Detected	300	Not Detected
1,1,1-Trichloroethane	60	Not Detected	330	Not Detected
Cyclohexane	60	1700	210	5900
Carbon Tetrachloride	60	Not Detected	380	Not Detected
2,2,4-Trimethylpentane	60	6300	280	29000
Benzene	60	1200	190	4000
1,2-Dichloroethane	60	Not Detected	240	Not Detected
Heptane	60	150	250	630
Trichloroethene	60	Not Detected	320	Not Detected
1,2-Dichloropropane	60	Not Detected	280	Not Detected
1,4-Dioxane	240	Not Detected	870	Not Detected
Bromodichloromethane	60	Not Detected	400	Not Detected
cis-1,3-Dichloropropene	60	Not Detected	270	Not Detected
4-Methyl-2-pentanone	60	Not Detected	250	Not Detected
Toluene	60	Not Detected	230	Not Detected
trans-1,3-Dichloropropene	60	Not Detected	270	Not Detected
1,1,2-Trichloroethane	60	Not Detected	330	Not Detected
Tetrachloroethene	60	Not Detected	410	Not Detected
2-Hexanone	240	Not Detected	990	Not Detected

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Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102121**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**121**	**Date of Analysis:**	**10/22/12 03:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	60	Not Detected	520	Not Detected
1,2-Dibromoethane (EDB)	60	Not Detected	460	Not Detected
Chlorobenzene	60	Not Detected	280	Not Detected
Ethyl Benzene	60	Not Detected	260	Not Detected
m,p-Xylene	60	Not Detected	260	Not Detected
o-Xylene	60	Not Detected	260	Not Detected
Styrene	60	Not Detected	260	Not Detected
Bromoform	60	Not Detected	620	Not Detected
Cumene	60	Not Detected	300	Not Detected
1,1,2,2-Tetrachloroethane	60	Not Detected	420	Not Detected
Propylbenzene	60	Not Detected	300	Not Detected
4-Ethyltoluene	60	Not Detected	300	Not Detected
1,3,5-Trimethylbenzene	60	Not Detected	300	Not Detected
1,2,4-Trimethylbenzene	60	Not Detected	300	Not Detected
1,3-Dichlorobenzene	60	Not Detected	360	Not Detected
1,4-Dichlorobenzene	60	Not Detected	360	Not Detected
alpha-Chlorotoluene	60	Not Detected	310	Not Detected
1,2-Dichlorobenzene	60	Not Detected	360	Not Detected
1,2,4-Trichlorobenzene	600	Not Detected UJ	4500	Not Detected UJ
Hexachlorobutadiene	240	Not Detected	2600	Not Detected
Butane	240	2900	580	7000
Isopentane	240	14000	710	40000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102120**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**113**	**Date of Analysis:**	**10/22/12 02:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	56	Not Detected	280	Not Detected
Freon 114	56	Not Detected	390	Not Detected
Chloromethane	560	Not Detected	1200	Not Detected
Vinyl Chloride	56	Not Detected	140	Not Detected
1,3-Butadiene	56	Not Detected	120	Not Detected
Bromomethane	560	Not Detected	2200	Not Detected
Chloroethane	230	Not Detected	600	Not Detected
Freon 11	56	Not Detected	320	Not Detected
Ethanol	230	Not Detected	420	Not Detected
Freon 113	56	Not Detected	430	Not Detected
1,1-Dichloroethene	56	Not Detected	220	Not Detected
Acetone	560	Not Detected	1300	Not Detected
2-Propanol	230	Not Detected	560	Not Detected
Carbon Disulfide	230	72 J	700	220 J
3-Chloropropene	230	Not Detected	710	Not Detected
Methylene Chloride	560	Not Detected	2000	Not Detected
Methyl tert-butyl ether	56	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	56	Not Detected	220	Not Detected
Hexane	56	1300	200	4700
1,1-Dichloroethane	56	Not Detected	230	Not Detected
2-Butanone (Methyl Ethyl Ketone)	230	Not Detected	670	Not Detected
cis-1,2-Dichloroethene	56	Not Detected	220	Not Detected
Tetrahydrofuran	56	Not Detected	170	Not Detected
Chloroform	56	Not Detected	280	Not Detected
1,1,1-Trichloroethane	56	Not Detected	310	Not Detected
Cyclohexane	56	1700	190	5700
Carbon Tetrachloride	56	Not Detected	360	Not Detected
2,2,4-Trimethylpentane	56	6000	260	28000
Benzene	56	1200	180	3900
1,2-Dichloroethane	56	Not Detected	230	Not Detected
Heptane	56	140	230	600
Trichloroethene	56	Not Detected	300	Not Detected
1,2-Dichloropropane	56	Not Detected	260	Not Detected
1,4-Dioxane	230	Not Detected	810	Not Detected
Bromodichloromethane	56	Not Detected	380	Not Detected
cis-1,3-Dichloropropene	56	Not Detected	260	Not Detected
4-Methyl-2-pentanone	56	Not Detected	230	Not Detected
Toluene	56	Not Detected	210	Not Detected
trans-1,3-Dichloropropene	56	Not Detected	260	Not Detected
1,1,2-Trichloroethane	56	Not Detected	310	Not Detected
Tetrachloroethene	56	Not Detected	380	Not Detected
2-Hexanone	230	Not Detected	920	Not Detected

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Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102120**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**113**	**Date of Analysis:**	**10/22/12 02:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	56	Not Detected	480	Not Detected
1,2-Dibromoethane (EDB)	56	Not Detected	430	Not Detected
Chlorobenzene	56	Not Detected	260	Not Detected
Ethyl Benzene	56	Not Detected	240	Not Detected
m,p-Xylene	56	Not Detected	240	Not Detected
o-Xylene	56	Not Detected	240	Not Detected
Styrene	56	Not Detected	240	Not Detected
Bromoform	56	Not Detected	580	Not Detected
Cumene	56	Not Detected	280	Not Detected
1,1,2,2-Tetrachloroethane	56	Not Detected	390	Not Detected
Propylbenzene	56	Not Detected	280	Not Detected
4-Ethyltoluene	56	Not Detected	280	Not Detected
1,3,5-Trimethylbenzene	56	Not Detected	280	Not Detected
1,2,4-Trimethylbenzene	56	Not Detected	280	Not Detected
1,3-Dichlorobenzene	56	Not Detected	340	Not Detected
1,4-Dichlorobenzene	56	Not Detected	340	Not Detected
alpha-Chlorotoluene	56	Not Detected	290	Not Detected
1,2-Dichlorobenzene	56	Not Detected	340	Not Detected
1,2,4-Trichlorobenzene	560	Not Detected UJ	4200	Not Detected UJ
Hexachlorobutadiene	230	Not Detected	2400	Not Detected
Butane	230	2900	540	6900
Isopentane	230	13000	670	39000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210391A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102107a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 08:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	0.64 J	3.8	1.2 J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	0.76 J	12	1.8 J
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.17 J	17	0.58 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1210391A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102107a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 08:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	5.0	0.49 J	37	3.6 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210391A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14102236a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 07:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	3.4 J	38	6.4 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210391A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14102236a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 07:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1210391A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 04:29 PM**	

Compound	%Recovery
Freon 12	115
Freon 114	112
Chloromethane	121
Vinyl Chloride	110
1,3-Butadiene	102
Bromomethane	120
Chloroethane	101
Freon 11	104
Ethanol	106
Freon 113	97
1,1-Dichloroethene	91
Acetone	100
2-Propanol	108
Carbon Disulfide	114
3-Chloropropene	108
Methylene Chloride	99
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	92
Hexane	97
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	98
Tetrahydrofuran	101
Chloroform	104
1,1,1-Trichloroethane	108
Cyclohexane	97
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	96
Benzene	95
1,2-Dichloroethane	109
Heptane	100
Trichloroethene	101
1,2-Dichloropropane	100
1,4-Dioxane	106
Bromodichloromethane	116
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	110
Toluene	98
trans-1,3-Dichloropropene	121
1,1,2-Trichloroethane	100
Tetrachloroethene	99
2-Hexanone	112

Client Sample ID: CCV

Lab ID#: 1210391A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 04:29 PM**	

Compound	%Recovery
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	105
Chlorobenzene	96
Ethyl Benzene	98
m,p-Xylene	96
o-Xylene	100
Styrene	102
Bromoform	117
Cumene	101
1,1,2,2-Tetrachloroethane	104
Propylbenzene	104
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	98
Butane	112
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1210391A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14102232**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:33 PM**	

Compound	%Recovery
Freon 12	109
Freon 114	105
Chloromethane	105
Vinyl Chloride	100
1,3-Butadiene	94
Bromomethane	91
Chloroethane	94
Freon 11	106
Ethanol	104
Freon 113	100
1,1-Dichloroethene	106
Acetone	102
2-Propanol	92
Carbon Disulfide	94
3-Chloropropene	95
Methylene Chloride	105
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	102
Hexane	98
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	103
Tetrahydrofuran	98
Chloroform	102
1,1,1-Trichloroethane	97
Cyclohexane	96
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	102
Benzene	101
1,2-Dichloroethane	104
Heptane	96
Trichloroethene	99
1,2-Dichloropropane	101
1,4-Dioxane	96
Bromodichloromethane	101
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	91
Toluene	97
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	93

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Client Sample ID: CCV

Lab ID#: 1210391A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14102232**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 09:33 PM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	102
Chlorobenzene	98
Ethyl Benzene	95
m,p-Xylene	97
o-Xylene	94
Styrene	97
Bromoform	110
Cumene	100
1,1,2,2-Tetrachloroethane	100
Propylbenzene	101
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	100
Butane	88
Isopentane	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 1210391A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 06:18 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	109
Chloromethane	124
Vinyl Chloride	110
1,3-Butadiene	104
Bromomethane	132 Q
Chloroethane	119
Freon 11	106
Ethanol	131 Q
Freon 113	98
1,1-Dichloroethene	101
Acetone	126
2-Propanol	137 Q
Carbon Disulfide	133 Q
3-Chloropropene	124
Methylene Chloride	100
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	109
Hexane	94
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	100
Tetrahydrofuran	101
Chloroform	103
1,1,1-Trichloroethane	107
Cyclohexane	97
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	94
Benzene	96
1,2-Dichloroethane	109
Heptane	101
Trichloroethene	104
1,2-Dichloropropane	101
1,4-Dioxane	107
Bromodichloromethane	112
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	107
Toluene	97
trans-1,3-Dichloropropene	120
1,1,2-Trichloroethane	102
Tetrachloroethene	100
2-Hexanone	105

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Client Sample ID: LCS

Lab ID#: 1210391A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 06:18 PM**	

Compound	%Recovery
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	108
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	106
Styrene	107
Bromoform	115
Cumene	107
1,1,2,2-Tetrachloroethane	108
Propylbenzene	110
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	100
Butane	105
Isopentane	116

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1210391A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 07:03 PM**	

Compound	%Recovery
Freon 12	106
Freon 114	107
Chloromethane	121
Vinyl Chloride	107
1,3-Butadiene	101
Bromomethane	130
Chloroethane	116
Freon 11	103
Ethanol	128
Freon 113	97
1,1-Dichloroethene	101
Acetone	126
2-Propanol	127
Carbon Disulfide	130
3-Chloropropene	121
Methylene Chloride	99
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	106
Hexane	93
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	97
Tetrahydrofuran	99
Chloroform	100
1,1,1-Trichloroethane	105
Cyclohexane	95
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	93
Benzene	97
1,2-Dichloroethane	106
Heptane	100
Trichloroethene	104
1,2-Dichloropropane	100
1,4-Dioxane	108
Bromodichloromethane	112
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	107
Toluene	98
trans-1,3-Dichloropropene	122
1,1,2-Trichloroethane	103
Tetrachloroethene	100
2-Hexanone	108

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Client Sample ID: LCSD

Lab ID#: 1210391A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/12 07:03 PM**	

Compound	%Recovery
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	109
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	105
Styrene	107
Bromoform	114
Cumene	105
1,1,2,2-Tetrachloroethane	109
Propylbenzene	110
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	130
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	102
Butane	101
Isopentane	113

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1210391A-08B

EPA METHOD TO-15 GC/MS

File Name:	**14102233**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 10:03 PM**	

Compound	%Recovery
Freon 12	105
Freon 114	101
Chloromethane	104
Vinyl Chloride	100
1,3-Butadiene	92
Bromomethane	106
Chloroethane	110
Freon 11	104
Ethanol	94
Freon 113	100
1,1-Dichloroethene	110
Acetone	99
2-Propanol	90
Carbon Disulfide	118
3-Chloropropene	103
Methylene Chloride	100
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	111
Hexane	94
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	102
Tetrahydrofuran	92
Chloroform	99
1,1,1-Trichloroethane	97
Cyclohexane	96
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	96
Benzene	100
1,2-Dichloroethane	103
Heptane	95
Trichloroethene	98
1,2-Dichloropropane	100
1,4-Dioxane	93
Bromodichloromethane	101
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	90
Toluene	95
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	96
Tetrachloroethene	97
2-Hexanone	88

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Client Sample ID: LCS

Lab ID#: 1210391A-08B

EPA METHOD TO-15 GC/MS

File Name:	**14102233**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 10:03 PM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	93
m,p-Xylene	95
o-Xylene	94
Styrene	98
Bromoform	109
Cumene	100
1,1,2,2-Tetrachloroethane	103
Propylbenzene	101
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	114
Butane	84
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1210391A-08BB

EPA METHOD TO-15 GC/MS

File Name:	**14102234**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 10:30 PM**	

Compound	%Recovery
Freon 12	107
Freon 114	104
Chloromethane	106
Vinyl Chloride	101
1,3-Butadiene	91
Bromomethane	108
Chloroethane	111
Freon 11	107
Ethanol	98
Freon 113	101
1,1-Dichloroethene	108
Acetone	101
2-Propanol	94
Carbon Disulfide	122
3-Chloropropene	105
Methylene Chloride	104
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	110
Hexane	96
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	104
Tetrahydrofuran	92
Chloroform	101
1,1,1-Trichloroethane	99
Cyclohexane	97
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	98
Benzene	101
1,2-Dichloroethane	105
Heptane	97
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	95
Bromodichloromethane	104
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	91
Toluene	98
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	102
Tetrachloroethene	98
2-Hexanone	92

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Client Sample ID: LCSD

Lab ID#: 1210391A-08BB

EPA METHOD TO-15 GC/MS

File Name:	**14102234**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/22/12 10:30 PM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	103
Chlorobenzene	102
Ethyl Benzene	97
m,p-Xylene	100
o-Xylene	100
Styrene	101
Bromoform	112
Cumene	104
1,1,2,2-Tetrachloroethane	108
Propylbenzene	106
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	124
Butane	85
Isopentane	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

1210331

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO: #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 10/16/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L Rathnow, S. Jansen, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab use only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-13-29.5-100912	10/09/12	1135-1206	2063	-29.5	-9			X	X	
02A	VMP-44-10-101212	10/12/12	1022-1056	15727	-30	-9			X	X	
03A	VMP-44-20-101212	10/12/12	1117-1147	3058	-30	-10			X	X	
04A	VMP-44-30-101512	10/15/12	0918-0947	37405	-29.5	-9			X	X	
05A	VMP-44-30-101512-Dup	10/15/12	0918-0947	37696	-29.5	-9			X	X	

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/16/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/17/12	Time: 0935
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

CUSTODY SEAL INTACT? Y N NO N/A

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11/5/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210391B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/17/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/19/12

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WORK ORDER #: 1210391B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/17/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/05/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-13-29.5-100912	Modified ASTM D-1946	10.0 "Hg	15 psi
02A	VMP-44-10-101212	Modified ASTM D-1946	8.5 "Hg	15 psi
03A	VMP-44-20-101212	Modified ASTM D-1946	9.5 "Hg	15 psi
04A	VMP-44-30-101512	Modified ASTM D-1946	10.0 "Hg	15 psi
05A	VMP-44-30-101512-Dup	Modified ASTM D-1946	8.5 "Hg	15 psi
06A	Lab Blank	Modified ASTM D-1946	NA	NA
06B	Lab Blank	Modified ASTM D-1946	NA	NA
06C	Lab Blank	Modified ASTM D-1946	NA	NA
06D	Lab Blank	Modified ASTM D-1946	NA	NA
07A	LCS	Modified ASTM D-1946	NA	NA
07AA	LCSD	Modified ASTM D-1946	NA	NA
07B	LCS	Modified ASTM D-1946	NA	NA
07BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/05/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210391B

Five 1 Liter Summa Canister samples were received on October 17, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-13-29.5-100912

Lab ID#: 1210391B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.5
Nitrogen	0.30	84
Methane	0.00030	0.19
Carbon Dioxide	0.030	14
Ethane	0.0030	0.000076 J
Helium	0.15	0.042 J

Client Sample ID: VMP-44-10-101212

Lab ID#: 1210391B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	81
Methane	0.00028	0.0063
Carbon Dioxide	0.028	5.9
Helium	0.14	1.4

Client Sample ID: VMP-44-20-101212

Lab ID#: 1210391B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	7.8
Nitrogen	0.30	81
Methane	0.00030	0.0086
Carbon Dioxide	0.030	11
Helium	0.15	0.21

Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	15

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391B-04A

Nitrogen	0.30	80
Methane	0.00030	0.0030
Carbon Dioxide	0.030	5.3
Helium	0.15	0.019 J

Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	80
Methane	0.00028	0.0029
Carbon Dioxide	0.028	5.1
Helium	0.14	0.018 J

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Client Sample ID: VMP-13-29.5-100912

Lab ID#: 1210391B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102325**	**Date of Collection:**	**10/9/12 12:06:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/23/12 07:42 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.5
Nitrogen	0.30	84
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.19
Carbon Dioxide	0.030	14
Ethane	0.0030	0.000076 J
Ethene	0.0030	Not Detected
Helium	0.15	0.042 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-44-10-101212

Lab ID#: 1210391B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102326**	**Date of Collection:**	**10/12/12 10:56:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/23/12 08:10 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0063
Carbon Dioxide	0.028	5.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	1.4

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-44-20-101212

Lab ID#: 1210391B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102327**	**Date of Collection:**	**10/12/12 11:47:00 A**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/23/12 08:32 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	7.8
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0086
Carbon Dioxide	0.030	11
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.21

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-44-30-101512

Lab ID#: 1210391B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102423**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/24/12 05:39 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	15
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0030
Carbon Dioxide	0.030	5.3
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-44-30-101512-Dup

Lab ID#: 1210391B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102424**	**Date of Collection:**	**10/15/12 9:47:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/24/12 06:01 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0029
Carbon Dioxide	0.028	5.1
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210391B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102306a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:44 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.021 J
Nitrogen	0.10	0.076 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210391B-06B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102305b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 09:02 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210391B-06C

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102404a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 08:42 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.076 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210391B-06D

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102403b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 08:17 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210391B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 08:02 AM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	102
Methane	99
Carbon Dioxide	96
Ethane	101
Ethene	98
Helium	98

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210391B-07AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102328**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/12 08:55 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	100
Methane	96
Carbon Dioxide	101
Ethane	98
Ethene	95
Helium	99

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210391B-07B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 07:53 AM**	

Compound	%Recovery
Oxygen	97
Nitrogen	100
Carbon Monoxide	100
Methane	99
Carbon Dioxide	98
Ethane	101
Ethene	98
Helium	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210391B-07BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102425**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/12 06:32 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	98
Methane	100
Carbon Dioxide	100
Ethane	102
Ethene	99
Helium	104

Container Type: NA - Not Applicable

1210331

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian
PO. #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/16/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L Rathnow, S. Jansen, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Owner E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-13-29.5-100912	10/09/12	1135-1205	2063	-29.5	-8			X	X	
02A	VMP-44-10-101212	10/12/12	1022-1058	15727	-30	-9			X	X	
03A	VMP-44-20-101212	10/12/12	1117-1147	3058	-30	-10			X	X	
04A	VMP-44-30-101512	10/15/12	0918-0947	37405	-29.5	-9			X	X	
05A	VMP-44-30-101512-Dup	10/15/12	0918-0947	37696	-29.5	-8			X	X	

10/16/12

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		FEDEX	10/16/12	1800
	Relinquished by: (Signature)	Received by: (Signature)	10/17/12	0935
	Relinquished by: (Signature)	Received by: (Signature)		

05/20/08 Revision

CUSTODY SEAL INTACT? Y N NO N/A

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210480AR1,BR1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-3-39-101912	VMP-3-31.5-101912
VMP-4-23.5-101812	VMP-14-20-101612
VMP-14-29-101612	VMP-31-20-101912
VMP-31-30-101912	VMP-32-30-101812

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-14-20-101612 was diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCSD recovery for 1,2,4-trichlorobenzene was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form, however the canister identification did not match the COC sample identification for sample VMP-4-23.5-101812; the laboratory report was revised in order to report sample VMP-4-23.5-101812 using the proper sample ID.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210480AR1-09A	TO-15	1,2,4-Trichlorobenzene	5.3 ppbv / 40 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210480AR1-09B	TO-15	Ethanol	4.1 ppbv / 7.7 µg/m^3
1210480BR1-09A	Natural gases	Oxygen	0.016%
1210480BR1-09A	Natural gases	Nitrogen	0.075%

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210480AR1-11B/BB	TO-15	1,2,4-Trichlorobenzene	128/**134**	5	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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11/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210480AR1

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/22/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210480AR1

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/22/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/06/2012		
DATE REISSUED:	11/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-3-39-101912	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-3-31.5-101912	Modified TO-15	8.0 "Hg	15 psi
03A	VMP-4-23.5-101812	Modified TO-15	9.0 "Hg	15 psi
04A	VMP-14-20-101612	Modified TO-15	8.5 "Hg	15 psi
04B	VMP-14-20-101612	Modified TO-15	8.5 "Hg	15 psi
05A	VMP-14-29-101612	Modified TO-15	8.5 "Hg	15 psi
06A	VMP-31-20-101912	Modified TO-15	8.0 "Hg	15 psi
07A	VMP-31-30-101912	Modified TO-15	8.0 "Hg	15 psi
08A	VMP-32-30-101812	Modified TO-15	8.0 "Hg	15 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210480AR1

Eight 1 Liter Summa Canister samples were received on October 22, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

THE WORK ORDER WAS REISSUED ON 11/20/12 TO AMEND IDENTIFICATION OF SAMPLE VMP-4-23.5-101812, AND AMEND THE NOTES BELOW:

THE CHAIN OF CUSTODY (COC) INFORMATION FOR SAMPLE VMP-4-23.5-101812 DID NOT MATCH THE INFORMATION ON THE CANISTER WITH REGARD TO CANISTER IDENTIFICATION. THE CLIENT WAS NOTIFIED OF THE DISCREPANCY AND THE INFORMATION ON THE CANISTER WAS USED TO PROCESS AND REPORT THE SAMPLE.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to high-level target compounds, sample VMP-14-20-101612 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Dilution was performed on all of the samples due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-3-39-101912

Lab ID#: 1210480AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	46000	360000	160000	1200000
Cyclohexane	46000	98000	160000	340000
2,2,4-Trimethylpentane	46000	910000	210000	4200000
Benzene	46000	14000 J	150000	47000 J
Toluene	46000	6200 J	170000	23000 J
Ethyl Benzene	46000	7200 J	200000	31000 J
m,p-Xylene	46000	19000 J	200000	84000 J
Butane	180000	9200000	440000	22000000
Isopentane	180000	6500000	540000	19000000

Client Sample ID: VMP-3-31.5-101912

Lab ID#: 1210480AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	460	4100	1600	14000
Cyclohexane	460	2000	1600	6800
2,2,4-Trimethylpentane	460	8300	2100	39000
Benzene	460	100 J	1500	320 J
Toluene	460	78 J	1700	300 J
m,p-Xylene	460	50 J	2000	220 J
Butane	1800	43000	4400	100000
Isopentane	1800	83000	5400	240000

Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1000	40000	3600	140000
Cyclohexane	1000	15000	3500	52000
2,2,4-Trimethylpentane	1000	24000	4800	110000
Benzene	1000	520 J	3300	1600 J
Heptane	1000	16000	4200	65000
Toluene	1000	1800	3900	6600

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480AR1-03A

Ethyl Benzene	1000	900 J	4500	3900 J
m,p-Xylene	1000	1600	4500	7200
o-Xylene	1000	600 J	4500	2600 J
Butane	4100	63000	9800	150000
Isopentane	4100	110000	12000	320000

Client Sample ID: VMP-14-20-101612 * Use these results only. All other data was reported from the 1410x dilution analysis.

Lab ID#: 1210480AR1-04A

DF = 3520

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	18000	96000	62000	340000
Cyclohexane	18000	51000	60000	180000
2,2,4-Trimethylpentane	18000	38000	82000	180000
* Benzene	18000	2900000	56000	9400000
Heptane	18000	13000 J	72000	53000 J
Toluene	18000	2600 J	66000	9900 J
m,p-Xylene	18000	7400 J	76000	32000 J
Butane	70000	640000	170000	1500000
Isopentane	70000	1400000	210000	4100000

Client Sample ID: VMP-14-20-101612 * Do not use this data. Use all other data.

Lab ID#: 1210480AR1-04B

DF = 1410

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	28000	6700 J	67000	16000 J
Methylene Chloride	7000	760 J	24000	2600 J
Hexane	7000	80000	25000	280000
Cyclohexane	7000	44000	24000	150000
2,2,4-Trimethylpentane	7000	32000	33000	150000
~~Benzene~~	~~7000~~	~~2300000 E~~	~~22000~~	~~7300000 E~~
Heptane	7000	12000	29000	49000
Toluene	7000	2300 J	26000	8700 J
Ethyl Benzene	7000	2800 J	31000	12000 J
m,p-Xylene	7000	6700 J	31000	29000 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480AR1-04B

o-Xylene	7000	1100 J	31000	4600 J
Butane	28000	480000	67000	1100000
Isopentane	28000	1100000	83000	3300000

Client Sample ID: VMP-14-29-101612

Lab ID#: 1210480AR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	18000	86000	62000	300000
Cyclohexane	18000	41000	60000	140000
2,2,4-Trimethylpentane	18000	31000	82000	140000
Benzene	18000	3000000	56000	9400000
Heptane	18000	12000 J	72000	48000 J
Toluene	18000	2400 J	66000	9000 J
m,p-Xylene	18000	7200 J	76000	31000 J
Butane	70000	680000	170000	1600000
Isopentane	70000	1000000	210000	3000000

Client Sample ID: VMP-31-20-101912

Lab ID#: 1210480AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	570 J	4900	2000 J
Cyclohexane	1400	1300 J	4800	4400 J
2,2,4-Trimethylpentane	1400	210000	6400	960000
Benzene	1400	200 J	4400	640 J
Toluene	1400	170 J	5200	660 J
m,p-Xylene	1400	160 J	6000	690 J
Butane	5500	970 J	13000	2300 J
Isopentane	5500	8500	16000	25000

Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480AR1-07A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	86	8.0 J	270	25 J
Hexane	86	80 J	300	280 J
Cyclohexane	86	120	300	420
2,2,4-Trimethylpentane	86	3600	400	17000
Benzene	86	14 J	270	44 J
Toluene	86	23 J	320	87 J
m,p-Xylene	86	20 J	370	87 J
Butane	340	7900	820	19000
Isopentane	340	11000	1000	34000

Client Sample ID: VMP-32-30-101812

Lab ID#: 1210480AR1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	55	45 J	190	160 J
Cyclohexane	55	130	190	440
2,2,4-Trimethylpentane	55	5800	260	27000
Benzene	55	23 J	180	74 J
Butane	220	65 J	520	150 J
Isopentane	220	590	650	1700

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Client Sample ID: VMP-3-39-101912

Lab ID#: 1210480AR1-01A

EPA METHOD TO-15 GC/MS

File Name:	**14102919**	**Date of Collection:**	**10/19/12 11:51:00 A**
Dil. Factor:	**9200**	**Date of Analysis:**	**10/29/12 08:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	46000	Not Detected	230000	Not Detected
Freon 114	46000	Not Detected	320000	Not Detected
Chloromethane	180000	Not Detected	380000	Not Detected
Vinyl Chloride	46000	Not Detected	120000	Not Detected
1,3-Butadiene	46000	Not Detected	100000	Not Detected
Bromomethane	46000	Not Detected	180000	Not Detected
Chloroethane	180000	Not Detected	480000	Not Detected
Freon 11	46000	Not Detected	260000	Not Detected
Ethanol	180000	Not Detected	350000	Not Detected
Freon 113	46000	Not Detected	350000	Not Detected
1,1-Dichloroethene	46000	Not Detected	180000	Not Detected
Acetone	180000	Not Detected	440000	Not Detected
2-Propanol	180000	Not Detected	450000	Not Detected
Carbon Disulfide	46000	Not Detected	140000	Not Detected
3-Chloropropene	180000	Not Detected	580000	Not Detected
Methylene Chloride	46000	Not Detected	160000	Not Detected
Methyl tert-butyl ether	46000	Not Detected	160000	Not Detected
trans-1,2-Dichloroethene	46000	Not Detected	180000	Not Detected
Hexane	46000	360000	160000	1200000
1,1-Dichloroethane	46000	Not Detected	190000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	180000	Not Detected	540000	Not Detected
cis-1,2-Dichloroethene	46000	Not Detected	180000	Not Detected
Tetrahydrofuran	46000	Not Detected	140000	Not Detected
Chloroform	46000	Not Detected	220000	Not Detected
1,1,1-Trichloroethane	46000	Not Detected	250000	Not Detected
Cyclohexane	46000	98000	160000	340000
Carbon Tetrachloride	46000	Not Detected	290000	Not Detected
2,2,4-Trimethylpentane	46000	910000	210000	4200000
Benzene	46000	14000 J	150000	47000 J
1,2-Dichloroethane	46000	Not Detected	190000	Not Detected
Heptane	46000	Not Detected	190000	Not Detected
Trichloroethene	46000	Not Detected	250000	Not Detected
1,2-Dichloropropane	46000	Not Detected	210000	Not Detected
1,4-Dioxane	180000	Not Detected	660000	Not Detected
Bromodichloromethane	46000	Not Detected	310000	Not Detected
cis-1,3-Dichloropropene	46000	Not Detected	210000	Not Detected
4-Methyl-2-pentanone	46000	Not Detected	190000	Not Detected
Toluene	46000	6200 J	170000	23000 J
trans-1,3-Dichloropropene	46000	Not Detected	210000	Not Detected
1,1,2-Trichloroethane	46000	Not Detected	250000	Not Detected
Tetrachloroethene	46000	Not Detected	310000	Not Detected
2-Hexanone	180000	Not Detected	750000	Not Detected

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Client Sample ID: VMP-3-39-101912

Lab ID#: 1210480AR1-01A

EPA METHOD TO-15 GC/MS

File Name:	**14102919**	**Date of Collection:**	**10/19/12 11:51:00 A**
Dil. Factor:	**9200**	**Date of Analysis:**	**10/29/12 08:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	46000	Not Detected	390000	Not Detected
1,2-Dibromoethane (EDB)	46000	Not Detected	350000	Not Detected
Chlorobenzene	46000	Not Detected	210000	Not Detected
Ethyl Benzene	46000	7200 J	200000	31000 J
m,p-Xylene	46000	19000 J	200000	84000 J
o-Xylene	46000	Not Detected	200000	Not Detected
Styrene	46000	Not Detected	200000	Not Detected
Bromoform	46000	Not Detected	480000	Not Detected
Cumene	46000	Not Detected	230000	Not Detected
1,1,2,2-Tetrachloroethane	46000	Not Detected	320000	Not Detected
Propylbenzene	46000	Not Detected	230000	Not Detected
4-Ethyltoluene	46000	Not Detected	230000	Not Detected
1,3,5-Trimethylbenzene	46000	Not Detected	230000	Not Detected
1,2,4-Trimethylbenzene	46000	Not Detected	230000	Not Detected
1,3-Dichlorobenzene	46000	Not Detected	280000	Not Detected
1,4-Dichlorobenzene	46000	Not Detected	280000	Not Detected
alpha-Chlorotoluene	46000	Not Detected	240000	Not Detected
1,2-Dichlorobenzene	46000	Not Detected	280000	Not Detected
1,2,4-Trichlorobenzene	180000	Not Detected	1400000	Not Detected
Hexachlorobutadiene	180000	Not Detected	2000000	Not Detected
Butane	180000	9200000	440000	22000000
Isopentane	180000	6500000	540000	19000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-3-31.5-101912

Lab ID#: 1210480AR1-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102819**	**Date of Collection:**	**10/19/12 10:52:00 A**
Dil. Factor:	**92.0**	**Date of Analysis:**	**10/29/12 08:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	460	Not Detected	2300	Not Detected
Freon 114	460	Not Detected	3200	Not Detected
Chloromethane	1800	Not Detected	3800	Not Detected
Vinyl Chloride	460	Not Detected	1200	Not Detected
1,3-Butadiene	460	Not Detected	1000	Not Detected
Bromomethane	460	Not Detected	1800	Not Detected
Chloroethane	1800	Not Detected	4800	Not Detected
Freon 11	460	Not Detected	2600	Not Detected
Ethanol	1800	Not Detected	3500	Not Detected
Freon 113	460	Not Detected	3500	Not Detected
1,1-Dichloroethene	460	Not Detected	1800	Not Detected
Acetone	1800	Not Detected	4400	Not Detected
2-Propanol	1800	Not Detected	4500	Not Detected
Carbon Disulfide	460	Not Detected	1400	Not Detected
3-Chloropropene	1800	Not Detected	5800	Not Detected
Methylene Chloride	460	Not Detected	1600	Not Detected
Methyl tert-butyl ether	460	Not Detected	1600	Not Detected
trans-1,2-Dichloroethene	460	Not Detected	1800	Not Detected
Hexane	460	4100	1600	14000
1,1-Dichloroethane	460	Not Detected	1900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1800	Not Detected	5400	Not Detected
cis-1,2-Dichloroethene	460	Not Detected	1800	Not Detected
Tetrahydrofuran	460	Not Detected	1400	Not Detected
Chloroform	460	Not Detected	2200	Not Detected
1,1,1-Trichloroethane	460	Not Detected	2500	Not Detected
Cyclohexane	460	2000	1600	6800
Carbon Tetrachloride	460	Not Detected	2900	Not Detected
2,2,4-Trimethylpentane	460	8300	2100	39000
Benzene	460	100 J	1500	320 J
1,2-Dichloroethane	460	Not Detected	1900	Not Detected
Heptane	460	Not Detected	1900	Not Detected
Trichloroethene	460	Not Detected	2500	Not Detected
1,2-Dichloropropane	460	Not Detected	2100	Not Detected
1,4-Dioxane	1800	Not Detected	6600	Not Detected
Bromodichloromethane	460	Not Detected	3100	Not Detected
cis-1,3-Dichloropropene	460	Not Detected	2100	Not Detected
4-Methyl-2-pentanone	460	Not Detected	1900	Not Detected
Toluene	460	78 J	1700	300 J
trans-1,3-Dichloropropene	460	Not Detected	2100	Not Detected
1,1,2-Trichloroethane	460	Not Detected	2500	Not Detected
Tetrachloroethene	460	Not Detected	3100	Not Detected
2-Hexanone	1800	Not Detected	7500	Not Detected

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Client Sample ID: VMP-3-31.5-101912

Lab ID#: 1210480AR1-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102819**	**Date of Collection:**	**10/19/12 10:52:00 A**
Dil. Factor:	**92.0**	**Date of Analysis:**	**10/29/12 08:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	460	Not Detected	3900	Not Detected
1,2-Dibromoethane (EDB)	460	Not Detected	3500	Not Detected
Chlorobenzene	460	Not Detected	2100	Not Detected
Ethyl Benzene	460	Not Detected	2000	Not Detected
m,p-Xylene	460	50 J	2000	220 J
o-Xylene	460	Not Detected	2000	Not Detected
Styrene	460	Not Detected	2000	Not Detected
Bromoform	460	Not Detected	4800	Not Detected
Cumene	460	Not Detected	2300	Not Detected
1,1,2,2-Tetrachloroethane	460	Not Detected	3200	Not Detected
Propylbenzene	460	Not Detected	2300	Not Detected
4-Ethyltoluene	460	Not Detected	2300	Not Detected
1,3,5-Trimethylbenzene	460	Not Detected	2300	Not Detected
1,2,4-Trimethylbenzene	460	Not Detected	2300	Not Detected
1,3-Dichlorobenzene	460	Not Detected	2800	Not Detected
1,4-Dichlorobenzene	460	Not Detected	2800	Not Detected
alpha-Chlorotoluene	460	Not Detected	2400	Not Detected
1,2-Dichlorobenzene	460	Not Detected	2800	Not Detected
1,2,4-Trichlorobenzene	1800	Not Detected	14000	Not Detected
Hexachlorobutadiene	1800	Not Detected	20000	Not Detected
Butane	1800	43000	4400	100000
Isopentane	1800	83000	5400	240000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480AR1-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102820**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**206**	**Date of Analysis:**	**10/29/12 08:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1000	Not Detected	5100	Not Detected
Freon 114	1000	Not Detected	7200	Not Detected
Chloromethane	4100	Not Detected	8500	Not Detected
Vinyl Chloride	1000	Not Detected	2600	Not Detected
1,3-Butadiene	1000	Not Detected	2300	Not Detected
Bromomethane	1000	Not Detected	4000	Not Detected
Chloroethane	4100	Not Detected	11000	Not Detected
Freon 11	1000	Not Detected	5800	Not Detected
Ethanol	4100	Not Detected	7800	Not Detected
Freon 113	1000	Not Detected	7900	Not Detected
1,1-Dichloroethene	1000	Not Detected	4100	Not Detected
Acetone	4100	Not Detected	9800	Not Detected
2-Propanol	4100	Not Detected	10000	Not Detected
Carbon Disulfide	1000	Not Detected	3200	Not Detected
3-Chloropropene	4100	Not Detected	13000	Not Detected
Methylene Chloride	1000	Not Detected	3600	Not Detected
Methyl tert-butyl ether	1000	Not Detected	3700	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4100	Not Detected
Hexane	1000	40000	3600	140000
1,1-Dichloroethane	1000	Not Detected	4200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4100	Not Detected	12000	Not Detected
cis-1,2-Dichloroethene	1000	Not Detected	4100	Not Detected
Tetrahydrofuran	1000	Not Detected	3000	Not Detected
Chloroform	1000	Not Detected	5000	Not Detected
1,1,1-Trichloroethane	1000	Not Detected	5600	Not Detected
Cyclohexane	1000	15000	3500	52000
Carbon Tetrachloride	1000	Not Detected	6500	Not Detected
2,2,4-Trimethylpentane	1000	24000	4800	110000
Benzene	1000	520 J	3300	1600 J
1,2-Dichloroethane	1000	Not Detected	4200	Not Detected
Heptane	1000	16000	4200	65000
Trichloroethene	1000	Not Detected	5500	Not Detected
1,2-Dichloropropane	1000	Not Detected	4800	Not Detected
1,4-Dioxane	4100	Not Detected	15000	Not Detected
Bromodichloromethane	1000	Not Detected	6900	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4700	Not Detected
4-Methyl-2-pentanone	1000	Not Detected	4200	Not Detected
Toluene	1000	1800	3900	6600
trans-1,3-Dichloropropene	1000	Not Detected	4700	Not Detected
1,1,2-Trichloroethane	1000	Not Detected	5600	Not Detected
Tetrachloroethene	1000	Not Detected	7000	Not Detected
2-Hexanone	4100	Not Detected	17000	Not Detected

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Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480AR1-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102820**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**206**	**Date of Analysis:**	**10/29/12 08:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1000	Not Detected	8800	Not Detected
1,2-Dibromoethane (EDB)	1000	Not Detected	7900	Not Detected
Chlorobenzene	1000	Not Detected	4700	Not Detected
Ethyl Benzene	1000	900 J	4500	3900 J
m,p-Xylene	1000	1600	4500	7200
o-Xylene	1000	600 J	4500	2600 J
Styrene	1000	Not Detected	4400	Not Detected
Bromoform	1000	Not Detected	11000	Not Detected
Cumene	1000	Not Detected	5100	Not Detected
1,1,2,2-Tetrachloroethane	1000	Not Detected	7100	Not Detected
Propylbenzene	1000	Not Detected	5100	Not Detected
4-Ethyltoluene	1000	Not Detected	5100	Not Detected
1,3,5-Trimethylbenzene	1000	Not Detected	5100	Not Detected
1,2,4-Trimethylbenzene	1000	Not Detected	5100	Not Detected
1,3-Dichlorobenzene	1000	Not Detected	6200	Not Detected
1,4-Dichlorobenzene	1000	Not Detected	6200	Not Detected
alpha-Chlorotoluene	1000	Not Detected	5300	Not Detected
1,2-Dichlorobenzene	1000	Not Detected	6200	Not Detected
1,2,4-Trichlorobenzene	4100	Not Detected	30000	Not Detected
Hexachlorobutadiene	4100	Not Detected	44000	Not Detected
Butane	4100	63000	9800	150000
Isopentane	4100	110000	12000	320000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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* use these results only. All other data was reported from the 1410 x dilution analysis.

Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480AR1-04A

EPA METHOD TO-15 GC/MS

File Name:	**14102921**	**Date of Collection:**	**10/16/12 9:20:00 AM**
Dil. Factor:	**3520**	**Date of Analysis:**	**10/29/12 09:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	18000	Not Detected	87000	Not Detected
Freon 114	18000	Not Detected	120000	Not Detected
Chloromethane	70000	Not Detected	140000	Not Detected
Vinyl Chloride	18000	Not Detected	45000	Not Detected
1,3-Butadiene	18000	Not Detected	39000	Not Detected
Bromomethane	18000	Not Detected	68000	Not Detected
Chloroethane	70000	Not Detected	180000	Not Detected
Freon 11	18000	Not Detected	99000	Not Detected
Ethanol	70000	Not Detected	130000	Not Detected
Freon 113	18000	Not Detected	130000	Not Detected
1,1-Dichloroethene	18000	Not Detected	70000	Not Detected
Acetone	70000	Not Detected	170000	Not Detected
2-Propanol	70000	Not Detected	170000	Not Detected
Carbon Disulfide	18000	Not Detected	55000	Not Detected
3-Chloropropene	70000	Not Detected	220000	Not Detected
Methylene Chloride	18000	Not Detected	61000	Not Detected
Methyl tert-butyl ether	18000	Not Detected	63000	Not Detected
trans-1,2-Dichloroethene	18000	Not Detected	70000	Not Detected
Hexane	18000	96000	62000	340000
1,1-Dichloroethane	18000	Not Detected	71000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	70000	Not Detected	210000	Not Detected
cis-1,2-Dichloroethene	18000	Not Detected	70000	Not Detected
Tetrahydrofuran	18000	Not Detected	52000	Not Detected
Chloroform	18000	Not Detected	86000	Not Detected
1,1,1-Trichloroethane	18000	Not Detected	96000	Not Detected
Cyclohexane	18000	51000	60000	180000
Carbon Tetrachloride	18000	Not Detected	110000	Not Detected
2,2,4-Trimethylpentane	18000	38000	82000	180000
* Benzene	18000	2900000	56000	9400000
1,2-Dichloroethane	18000	Not Detected	71000	Not Detected
Heptane	18000	13000 J	72000	53000 J
Trichloroethene	18000	Not Detected	94000	Not Detected
1,2-Dichloropropane	18000	Not Detected	81000	Not Detected
1,4-Dioxane	70000	Not Detected	250000	Not Detected
Bromodichloromethane	18000	Not Detected	120000	Not Detected
cis-1,3-Dichloropropene	18000	Not Detected	80000	Not Detected
4-Methyl-2-pentanone	18000	Not Detected	72000	Not Detected
Toluene	18000	2600 J	66000	9900 J
trans-1,3-Dichloropropene	18000	Not Detected	80000	Not Detected
1,1,2-Trichloroethane	18000	Not Detected	96000	Not Detected
Tetrachloroethene	18000	Not Detected	120000	Not Detected
2-Hexanone	70000	Not Detected	290000	Not Detected

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Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480AR1-04A

EPA METHOD TO-15 GC/MS

File Name:	**14102921**	**Date of Collection:**	**10/16/12 9:20:00 AM**
Dil. Factor:	**3520**	**Date of Analysis:**	**10/29/12 09:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	18000	Not Detected	150000	Not Detected
1,2-Dibromoethane (EDB)	18000	Not Detected	140000	Not Detected
Chlorobenzene	18000	Not Detected	81000	Not Detected
Ethyl Benzene	18000	Not Detected	76000	Not Detected
m,p-Xylene	18000	7400 J	76000	32000 J
o-Xylene	18000	Not Detected	76000	Not Detected
Styrene	18000	Not Detected	75000	Not Detected
Bromoform	18000	Not Detected	180000	Not Detected
Cumene	18000	Not Detected	86000	Not Detected
1,1,2,2-Tetrachloroethane	18000	Not Detected	120000	Not Detected
Propylbenzene	18000	Not Detected	86000	Not Detected
4-Ethyltoluene	18000	Not Detected	86000	Not Detected
1,3,5-Trimethylbenzene	18000	Not Detected	86000	Not Detected
1,2,4-Trimethylbenzene	18000	Not Detected	86000	Not Detected
1,3-Dichlorobenzene	18000	Not Detected	100000	Not Detected
1,4-Dichlorobenzene	18000	Not Detected	100000	Not Detected
alpha-Chlorotoluene	18000	Not Detected	91000	Not Detected
1,2-Dichlorobenzene	18000	Not Detected	100000	Not Detected
1,2,4-Trichlorobenzene	70000	Not Detected	520000	Not Detected
Hexachlorobutadiene	70000	Not Detected	750000	Not Detected
Butane	70000	640000	170000	1500000
Isopentane	70000	1400000	210000	4100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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* Do not use this data. Use all other data.

Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480AR1-04B

EPA METHOD TO-15 GC/MS

File Name:	**14102920**	**Date of Collection:**	**10/16/12 9:20:00 AM**
Dil. Factor:	**1410**	**Date of Analysis:**	**10/29/12 09:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7000	Not Detected	35000	Not Detected
Freon 114	7000	Not Detected	49000	Not Detected
Chloromethane	28000	Not Detected	58000	Not Detected
Vinyl Chloride	7000	Not Detected	18000	Not Detected
1,3-Butadiene	7000	Not Detected	16000	Not Detected
Bromomethane	7000	Not Detected	27000	Not Detected
Chloroethane	28000	Not Detected	74000	Not Detected
Freon 11	7000	Not Detected	40000	Not Detected
Ethanol	28000	Not Detected	53000	Not Detected
Freon 113	7000	Not Detected	54000	Not Detected
1,1-Dichloroethene	7000	Not Detected	28000	Not Detected
Acetone	28000	6700 J	67000	16000 J
2-Propanol	28000	Not Detected	69000	Not Detected
Carbon Disulfide	7000	Not Detected	22000	Not Detected
3-Chloropropene	28000	Not Detected	88000	Not Detected
Methylene Chloride	7000	760 J	24000	2600 J
Methyl tert-butyl ether	7000	Not Detected	25000	Not Detected
trans-1,2-Dichloroethene	7000	Not Detected	28000	Not Detected
Hexane	7000	80000	25000	280000
1,1-Dichloroethane	7000	Not Detected	28000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28000	Not Detected	83000	Not Detected
cis-1,2-Dichloroethene	7000	Not Detected	28000	Not Detected
Tetrahydrofuran	7000	Not Detected	21000	Not Detected
Chloroform	7000	Not Detected	34000	Not Detected
1,1,1-Trichloroethane	7000	Not Detected	38000	Not Detected
Cyclohexane	7000	44000	24000	150000
Carbon Tetrachloride	7000	Not Detected	44000	Not Detected
2,2,4-Trimethylpentane	7000	32000	33000	150000
* ~~Benzene~~	~~7000~~	~~2300000 E~~	~~22000~~	~~7300000 E~~
1,2-Dichloroethane	7000	Not Detected	28000	Not Detected
Heptane	7000	12000	29000	49000
Trichloroethene	7000	Not Detected	38000	Not Detected
1,2-Dichloropropane	7000	Not Detected	32000	Not Detected
1,4-Dioxane	28000	Not Detected	100000	Not Detected
Bromodichloromethane	7000	Not Detected	47000	Not Detected
cis-1,3-Dichloropropene	7000	Not Detected	32000	Not Detected
4-Methyl-2-pentanone	7000	Not Detected	29000	Not Detected
Toluene	7000	2300 J	26000	8700 J
trans-1,3-Dichloropropene	7000	Not Detected	32000	Not Detected
1,1,2-Trichloroethane	7000	Not Detected	38000	Not Detected
Tetrachloroethene	7000	Not Detected	48000	Not Detected
2-Hexanone	28000	Not Detected	120000	Not Detected

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Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480AR1-04B

EPA METHOD TO-15 GC/MS

File Name:	**14102920**	**Date of Collection:**	**10/16/12 9:20:00 AM**
Dil. Factor:	**1410**	**Date of Analysis:**	**10/29/12 09:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7000	Not Detected	60000	Not Detected
1,2-Dibromoethane (EDB)	7000	Not Detected	54000	Not Detected
Chlorobenzene	7000	Not Detected	32000	Not Detected
Ethyl Benzene	7000	2800 J	31000	12000 J
m,p-Xylene	7000	6700 J	31000	29000 J
o-Xylene	7000	1100 J	31000	4600 J
Styrene	7000	Not Detected	30000	Not Detected
Bromoform	7000	Not Detected	73000	Not Detected
Cumene	7000	Not Detected	35000	Not Detected
1,1,2,2-Tetrachloroethane	7000	Not Detected	48000	Not Detected
Propylbenzene	7000	Not Detected	35000	Not Detected
4-Ethyltoluene	7000	Not Detected	35000	Not Detected
1,3,5-Trimethylbenzene	7000	Not Detected	35000	Not Detected
1,2,4-Trimethylbenzene	7000	Not Detected	35000	Not Detected
1,3-Dichlorobenzene	7000	Not Detected	42000	Not Detected
1,4-Dichlorobenzene	7000	Not Detected	42000	Not Detected
alpha-Chlorotoluene	7000	Not Detected	36000	Not Detected
1,2-Dichlorobenzene	7000	Not Detected	42000	Not Detected
1,2,4-Trichlorobenzene	28000	Not Detected	210000	Not Detected
Hexachlorobutadiene	28000	Not Detected	300000	Not Detected
Butane	28000	480000	67000	1100000
Isopentane	28000	1100000	83000	3300000

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-14-29-101612

Lab ID#: 1210480AR1-05A

EPA METHOD TO-15 GC/MS

File Name:	**14102922**	**Date of Collection:**	**10/16/12 10:06:00 A**
Dil. Factor:	**3520**	**Date of Analysis:**	**10/29/12 10:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	18000	Not Detected	87000	Not Detected
Freon 114	18000	Not Detected	120000	Not Detected
Chloromethane	70000	Not Detected	140000	Not Detected
Vinyl Chloride	18000	Not Detected	45000	Not Detected
1,3-Butadiene	18000	Not Detected	39000	Not Detected
Bromomethane	18000	Not Detected	68000	Not Detected
Chloroethane	70000	Not Detected	180000	Not Detected
Freon 11	18000	Not Detected	99000	Not Detected
Ethanol	70000	Not Detected	130000	Not Detected
Freon 113	18000	Not Detected	130000	Not Detected
1,1-Dichloroethene	18000	Not Detected	70000	Not Detected
Acetone	70000	Not Detected	170000	Not Detected
2-Propanol	70000	Not Detected	170000	Not Detected
Carbon Disulfide	18000	Not Detected	55000	Not Detected
3-Chloropropene	70000	Not Detected	220000	Not Detected
Methylene Chloride	18000	Not Detected	61000	Not Detected
Methyl tert-butyl ether	18000	Not Detected	63000	Not Detected
trans-1,2-Dichloroethene	18000	Not Detected	70000	Not Detected
Hexane	18000	86000	62000	300000
1,1-Dichloroethane	18000	Not Detected	71000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	70000	Not Detected	210000	Not Detected
cis-1,2-Dichloroethene	18000	Not Detected	70000	Not Detected
Tetrahydrofuran	18000	Not Detected	52000	Not Detected
Chloroform	18000	Not Detected	86000	Not Detected
1,1,1-Trichloroethane	18000	Not Detected	96000	Not Detected
Cyclohexane	18000	41000	60000	140000
Carbon Tetrachloride	18000	Not Detected	110000	Not Detected
2,2,4-Trimethylpentane	18000	31000	82000	140000
Benzene	18000	3000000	56000	9400000
1,2-Dichloroethane	18000	Not Detected	71000	Not Detected
Heptane	18000	12000 J	72000	48000 J
Trichloroethene	18000	Not Detected	94000	Not Detected
1,2-Dichloropropane	18000	Not Detected	81000	Not Detected
1,4-Dioxane	70000	Not Detected	250000	Not Detected
Bromodichloromethane	18000	Not Detected	120000	Not Detected
cis-1,3-Dichloropropene	18000	Not Detected	80000	Not Detected
4-Methyl-2-pentanone	18000	Not Detected	72000	Not Detected
Toluene	18000	2400 J	66000	9000 J
trans-1,3-Dichloropropene	18000	Not Detected	80000	Not Detected
1,1,2-Trichloroethane	18000	Not Detected	96000	Not Detected
Tetrachloroethene	18000	Not Detected	120000	Not Detected
2-Hexanone	70000	Not Detected	290000	Not Detected

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Client Sample ID: VMP-14-29-101612

Lab ID#: 1210480AR1-05A

EPA METHOD TO-15 GC/MS

File Name:	**14102922**	**Date of Collection:**	**10/16/12 10:06:00 A**
Dil. Factor:	**3520**	**Date of Analysis:**	**10/29/12 10:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	18000	Not Detected	150000	Not Detected
1,2-Dibromoethane (EDB)	18000	Not Detected	140000	Not Detected
Chlorobenzene	18000	Not Detected	81000	Not Detected
Ethyl Benzene	18000	Not Detected	76000	Not Detected
m,p-Xylene	18000	7200 J	76000	31000 J
o-Xylene	18000	Not Detected	76000	Not Detected
Styrene	18000	Not Detected	75000	Not Detected
Bromoform	18000	Not Detected	180000	Not Detected
Cumene	18000	Not Detected	86000	Not Detected
1,1,2,2-Tetrachloroethane	18000	Not Detected	120000	Not Detected
Propylbenzene	18000	Not Detected	86000	Not Detected
4-Ethyltoluene	18000	Not Detected	86000	Not Detected
1,3,5-Trimethylbenzene	18000	Not Detected	86000	Not Detected
1,2,4-Trimethylbenzene	18000	Not Detected	86000	Not Detected
1,3-Dichlorobenzene	18000	Not Detected	100000	Not Detected
1,4-Dichlorobenzene	18000	Not Detected	100000	Not Detected
alpha-Chlorotoluene	18000	Not Detected	91000	Not Detected
1,2-Dichlorobenzene	18000	Not Detected	100000	Not Detected
1,2,4-Trichlorobenzene	70000	Not Detected	520000	Not Detected
Hexachlorobutadiene	70000	Not Detected	750000	Not Detected
Butane	70000	680000	170000	1600000
Isopentane	70000	1000000	210000	3000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-31-20-101912

Lab ID#: 1210480AR1-06A

EPA METHOD TO-15 GC/MS

File Name:	**14102821**	**Date of Collection:**	**10/19/12 12:01:00 P**
Dil. Factor:	**276**	**Date of Analysis:**	**10/29/12 08:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	6800	Not Detected
Freon 114	1400	Not Detected	9600	Not Detected
Chloromethane	5500	Not Detected	11000	Not Detected
Vinyl Chloride	1400	Not Detected	3500	Not Detected
1,3-Butadiene	1400	Not Detected	3000	Not Detected
Bromomethane	1400	Not Detected	5400	Not Detected
Chloroethane	5500	Not Detected	14000	Not Detected
Freon 11	1400	Not Detected	7800	Not Detected
Ethanol	5500	Not Detected	10000	Not Detected
Freon 113	1400	Not Detected	10000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5500	Not Detected
Acetone	5500	Not Detected	13000	Not Detected
2-Propanol	5500	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4300	Not Detected
3-Chloropropene	5500	Not Detected	17000	Not Detected
Methylene Chloride	1400	Not Detected	4800	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5000	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5500	Not Detected
Hexane	1400	570 J	4900	2000 J
1,1-Dichloroethane	1400	Not Detected	5600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5500	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5500	Not Detected
Tetrahydrofuran	1400	Not Detected	4100	Not Detected
Chloroform	1400	Not Detected	6700	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7500	Not Detected
Cyclohexane	1400	1300 J	4800	4400 J
Carbon Tetrachloride	1400	Not Detected	8700	Not Detected
2,2,4-Trimethylpentane	1400	210000	6400	960000
Benzene	1400	200 J	4400	640 J
1,2-Dichloroethane	1400	Not Detected	5600	Not Detected
Heptane	1400	Not Detected	5600	Not Detected
Trichloroethene	1400	Not Detected	7400	Not Detected
1,2-Dichloropropane	1400	Not Detected	6400	Not Detected
1,4-Dioxane	5500	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9200	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5600	Not Detected
Toluene	1400	170 J	5200	660 J
trans-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7500	Not Detected
Tetrachloroethene	1400	Not Detected	9400	Not Detected
2-Hexanone	5500	Not Detected	23000	Not Detected

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Client Sample ID: VMP-31-20-101912

Lab ID#: 1210480AR1-06A

EPA METHOD TO-15 GC/MS

File Name:	**14102821**	**Date of Collection:**	**10/19/12 12:01:00 P**
Dil. Factor:	**276**	**Date of Analysis:**	**10/29/12 08:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6400	Not Detected
Ethyl Benzene	1400	Not Detected	6000	Not Detected
m,p-Xylene	1400	160 J	6000	690 J
o-Xylene	1400	Not Detected	6000	Not Detected
Styrene	1400	Not Detected	5900	Not Detected
Bromoform	1400	Not Detected	14000	Not Detected
Cumene	1400	Not Detected	6800	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9500	Not Detected
Propylbenzene	1400	Not Detected	6800	Not Detected
4-Ethyltoluene	1400	Not Detected	6800	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	6800	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	6800	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8300	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8300	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7100	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8300	Not Detected
1,2,4-Trichlorobenzene	5500	Not Detected	41000	Not Detected
Hexachlorobutadiene	5500	Not Detected	59000	Not Detected
Butane	5500	970 J	13000	2300 J
Isopentane	5500	8500	16000	25000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480AR1-07A

EPA METHOD TO-15 GC/MS

File Name:	**14102824**	**Date of Collection:**	**10/19/12 11:13:00 A**
Dil. Factor:	**17.2**	**Date of Analysis:**	**10/29/12 10:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	86	Not Detected	420	Not Detected
Freon 114	86	Not Detected	600	Not Detected
Chloromethane	340	Not Detected	710	Not Detected
Vinyl Chloride	86	Not Detected	220	Not Detected
1,3-Butadiene	86	Not Detected	190	Not Detected
Bromomethane	86	Not Detected	330	Not Detected
Chloroethane	340	Not Detected	910	Not Detected
Freon 11	86	Not Detected	480	Not Detected
Ethanol	340	Not Detected	650	Not Detected
Freon 113	86	Not Detected	660	Not Detected
1,1-Dichloroethene	86	Not Detected	340	Not Detected
Acetone	340	Not Detected	820	Not Detected
2-Propanol	340	Not Detected	840	Not Detected
Carbon Disulfide	86	8.0 J	270	25 J
3-Chloropropene	340	Not Detected	1100	Not Detected
Methylene Chloride	86	Not Detected	300	Not Detected
Methyl tert-butyl ether	86	Not Detected	310	Not Detected
trans-1,2-Dichloroethene	86	Not Detected	340	Not Detected
Hexane	86	80 J	300	280 J
1,1-Dichloroethane	86	Not Detected	350	Not Detected
2-Butanone (Methyl Ethyl Ketone)	340	Not Detected	1000	Not Detected
cis-1,2-Dichloroethene	86	Not Detected	340	Not Detected
Tetrahydrofuran	86	Not Detected	250	Not Detected
Chloroform	86	Not Detected	420	Not Detected
1,1,1-Trichloroethane	86	Not Detected	470	Not Detected
Cyclohexane	86	120	300	420
Carbon Tetrachloride	86	Not Detected	540	Not Detected
2,2,4-Trimethylpentane	86	3600	400	17000
Benzene	86	14 J	270	44 J
1,2-Dichloroethane	86	Not Detected	350	Not Detected
Heptane	86	Not Detected	350	Not Detected
Trichloroethene	86	Not Detected	460	Not Detected
1,2-Dichloropropane	86	Not Detected	400	Not Detected
1,4-Dioxane	340	Not Detected	1200	Not Detected
Bromodichloromethane	86	Not Detected	580	Not Detected
cis-1,3-Dichloropropene	86	Not Detected	390	Not Detected
4-Methyl-2-pentanone	86	Not Detected	350	Not Detected
Toluene	86	23 J	320	87 J
trans-1,3-Dichloropropene	86	Not Detected	390	Not Detected
1,1,2-Trichloroethane	86	Not Detected	470	Not Detected
Tetrachloroethene	86	Not Detected	580	Not Detected
2-Hexanone	340	Not Detected	1400	Not Detected

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Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480AR1-07A

EPA METHOD TO-15 GC/MS

File Name:	**14102824**	**Date of Collection:**	**10/19/12 11:13:00 A**
Dil. Factor:	**17.2**	**Date of Analysis:**	**10/29/12 10:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	86	Not Detected	730	Not Detected
1,2-Dibromoethane (EDB)	86	Not Detected	660	Not Detected
Chlorobenzene	86	Not Detected	400	Not Detected
Ethyl Benzene	86	Not Detected	370	Not Detected
m,p-Xylene	86	20 J	370	87 J
o-Xylene	86	Not Detected	370	Not Detected
Styrene	86	Not Detected	370	Not Detected
Bromoform	86	Not Detected	890	Not Detected
Cumene	86	Not Detected	420	Not Detected
1,1,2,2-Tetrachloroethane	86	Not Detected	590	Not Detected
Propylbenzene	86	Not Detected	420	Not Detected
4-Ethyltoluene	86	Not Detected	420	Not Detected
1,3,5-Trimethylbenzene	86	Not Detected	420	Not Detected
1,2,4-Trimethylbenzene	86	Not Detected	420	Not Detected
1,3-Dichlorobenzene	86	Not Detected	520	Not Detected
1,4-Dichlorobenzene	86	Not Detected	520	Not Detected
alpha-Chlorotoluene	86	Not Detected	440	Not Detected
1,2-Dichlorobenzene	86	Not Detected	520	Not Detected
1,2,4-Trichlorobenzene	340	Not Detected	2600	Not Detected
Hexachlorobutadiene	340	Not Detected	3700	Not Detected
Butane	340	7900	820	19000
Isopentane	340	11000	1000	34000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-32-30-101812

Lab ID#: 1210480AR1-08A

EPA METHOD TO-15 GC/MS

File Name:	**14102823**	**Date of Collection:**	**10/18/12 4:10:00 PM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**10/29/12 09:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	55	Not Detected	270	Not Detected
Freon 114	55	Not Detected	380	Not Detected
Chloromethane	220	Not Detected	450	Not Detected
Vinyl Chloride	55	Not Detected	140	Not Detected
1,3-Butadiene	55	Not Detected	120	Not Detected
Bromomethane	55	Not Detected	210	Not Detected
Chloroethane	220	Not Detected	580	Not Detected
Freon 11	55	Not Detected	310	Not Detected
Ethanol	220	Not Detected	410	Not Detected
Freon 113	55	Not Detected	420	Not Detected
1,1-Dichloroethene	55	Not Detected	220	Not Detected
Acetone	220	Not Detected	520	Not Detected
2-Propanol	220	Not Detected	540	Not Detected
Carbon Disulfide	55	Not Detected	170	Not Detected
3-Chloropropene	220	Not Detected	690	Not Detected
Methylene Chloride	55	Not Detected	190	Not Detected
Methyl tert-butyl ether	55	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	55	Not Detected	220	Not Detected
Hexane	55	45 J	190	160 J
1,1-Dichloroethane	55	Not Detected	220	Not Detected
2-Butanone (Methyl Ethyl Ketone)	220	Not Detected	650	Not Detected
cis-1,2-Dichloroethene	55	Not Detected	220	Not Detected
Tetrahydrofuran	55	Not Detected	160	Not Detected
Chloroform	55	Not Detected	270	Not Detected
1,1,1-Trichloroethane	55	Not Detected	300	Not Detected
Cyclohexane	55	130	190	440
Carbon Tetrachloride	55	Not Detected	350	Not Detected
2,2,4-Trimethylpentane	55	5800	260	27000
Benzene	55	23 J	180	74 J
1,2-Dichloroethane	55	Not Detected	220	Not Detected
Heptane	55	Not Detected	220	Not Detected
Trichloroethene	55	Not Detected	300	Not Detected
1,2-Dichloropropane	55	Not Detected	250	Not Detected
1,4-Dioxane	220	Not Detected	790	Not Detected
Bromodichloromethane	55	Not Detected	370	Not Detected
cis-1,3-Dichloropropene	55	Not Detected	250	Not Detected
4-Methyl-2-pentanone	55	Not Detected	220	Not Detected
Toluene	55	Not Detected	210	Not Detected
trans-1,3-Dichloropropene	55	Not Detected	250	Not Detected
1,1,2-Trichloroethane	55	Not Detected	300	Not Detected
Tetrachloroethene	55	Not Detected	370	Not Detected
2-Hexanone	220	Not Detected	900	Not Detected

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Client Sample ID: VMP-32-30-101812

Lab ID#: 1210480AR1-08A

EPA METHOD TO-15 GC/MS

File Name:	**14102823**	**Date of Collection:**	**10/18/12 4:10:00 PM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**10/29/12 09:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	55	Not Detected	470	Not Detected
1,2-Dibromoethane (EDB)	55	Not Detected	420	Not Detected
Chlorobenzene	55	Not Detected	250	Not Detected
Ethyl Benzene	55	Not Detected	240	Not Detected
m,p-Xylene	55	Not Detected	240	Not Detected
o-Xylene	55	Not Detected	240	Not Detected
Styrene	55	Not Detected	230	Not Detected
Bromoform	55	Not Detected	570	Not Detected
Cumene	55	Not Detected	270	Not Detected
1,1,2,2-Tetrachloroethane	55	Not Detected	380	Not Detected
Propylbenzene	55	Not Detected	270	Not Detected
4-Ethyltoluene	55	Not Detected	270	Not Detected
1,3,5-Trimethylbenzene	55	Not Detected	270	Not Detected
1,2,4-Trimethylbenzene	55	Not Detected	270	Not Detected
1,3-Dichlorobenzene	55	Not Detected	330	Not Detected
1,4-Dichlorobenzene	55	Not Detected	330	Not Detected
alpha-Chlorotoluene	55	Not Detected	280	Not Detected
1,2-Dichlorobenzene	55	Not Detected	330	Not Detected
1,2,4-Trichlorobenzene	220	Not Detected	1600	Not Detected
Hexachlorobutadiene	220	Not Detected	2300	Not Detected
Butane	220	65 J	520	150 J
Isopentane	220	590	650	1700

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210480AR1-09A

EPA METHOD TO-15 GC/MS

File Name:	**14102805c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 12:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank
Lab ID#: 1210480AR1-09A
EPA METHOD TO-15 GC/MS

File Name:	**14102805c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 12:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	5.3 J	150	40 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210480AR1-09B

EPA METHOD TO-15 GC/MS

File Name:	**14102906c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 12:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	4.1 J	38	7.7 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210480AR1-09B

EPA METHOD TO-15 GC/MS

File Name:	**14102906c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 12:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1210480AR1-10A

EPA METHOD TO-15 GC/MS

File Name:	**14102802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 11:17 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	104
Chloromethane	100
Vinyl Chloride	89
1,3-Butadiene	81
Bromomethane	86
Chloroethane	105
Freon 11	106
Ethanol	93
Freon 113	98
1,1-Dichloroethene	102
Acetone	97
2-Propanol	86
Carbon Disulfide	90
3-Chloropropene	90
Methylene Chloride	102
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	98
Hexane	92
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	98
Tetrahydrofuran	91
Chloroform	97
1,1,1-Trichloroethane	95
Cyclohexane	93
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	96
Benzene	100
1,2-Dichloroethane	104
Heptane	96
Trichloroethene	98
1,2-Dichloropropane	99
1,4-Dioxane	96
Bromodichloromethane	100
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	89
Toluene	96
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	98
Tetrachloroethene	100
2-Hexanone	88

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Client Sample ID: CCV

Lab ID#: 1210480AR1-10A

EPA METHOD TO-15 GC/MS

File Name:	**14102802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 11:17 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	93
m,p-Xylene	94
o-Xylene	93
Styrene	95
Bromoform	108
Cumene	99
1,1,2,2-Tetrachloroethane	98
Propylbenzene	98
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	109
Butane	85
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1210480AR1-10B

EPA METHOD TO-15 GC/MS

File Name:	**14102902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 10:39 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	103
Chloromethane	102
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	86
Chloroethane	109
Freon 11	107
Ethanol	99
Freon 113	100
1,1-Dichloroethene	102
Acetone	100
2-Propanol	89
Carbon Disulfide	95
3-Chloropropene	91
Methylene Chloride	102
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	100
Hexane	94
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	101
Tetrahydrofuran	93
Chloroform	99
1,1,1-Trichloroethane	97
Cyclohexane	95
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	99
Benzene	98
1,2-Dichloroethane	102
Heptane	96
Trichloroethene	98
1,2-Dichloropropane	98
1,4-Dioxane	94
Bromodichloromethane	101
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	91
Toluene	96
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	100
Tetrachloroethene	99
2-Hexanone	89

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Client Sample ID: CCV

Lab ID#: 1210480AR1-10B

EPA METHOD TO-15 GC/MS

File Name:	**14102902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 10:39 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Ethyl Benzene	94
m,p-Xylene	97
o-Xylene	96
Styrene	98
Bromoform	112
Cumene	100
1,1,2,2-Tetrachloroethane	103
Propylbenzene	101
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	109
Butane	80
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS
Lab ID#: 1210480AR1-11A
EPA METHOD TO-15 GC/MS

File Name:	**14102803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 11:42 AM**

Compound	%Recovery
Freon 12	104
Freon 114	99
Chloromethane	100
Vinyl Chloride	89
1,3-Butadiene	77
Bromomethane	105
Chloroethane	104
Freon 11	102
Ethanol	79
Freon 113	96
1,1-Dichloroethene	104
Acetone	93
2-Propanol	84
Carbon Disulfide	112
3-Chloropropene	98
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	104
Hexane	88
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	97
Tetrahydrofuran	85
Chloroform	94
1,1,1-Trichloroethane	94
Cyclohexane	90
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	92
Benzene	95
1,2-Dichloroethane	97
Heptane	88
Trichloroethene	96
1,2-Dichloropropane	93
1,4-Dioxane	86
Bromodichloromethane	98
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	84
Toluene	92
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	94
Tetrachloroethene	95
2-Hexanone	82

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Client Sample ID: LCS

Lab ID#: 1210480AR1-11A

EPA METHOD TO-15 GC/MS

File Name:	**14102803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 11:42 AM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	97
Chlorobenzene	94
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	91
Styrene	92
Bromoform	104
Cumene	96
1,1,2,2-Tetrachloroethane	99
Propylbenzene	98
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	113
Butane	75
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD
Lab ID#: 1210480AR1-11AA
EPA METHOD TO-15 GC/MS

File Name:	**14102804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 12:07 PM**	

Compound	%Recovery
Freon 12	104
Freon 114	99
Chloromethane	100
Vinyl Chloride	91
1,3-Butadiene	80
Bromomethane	106
Chloroethane	108
Freon 11	104
Ethanol	90
Freon 113	99
1,1-Dichloroethene	104
Acetone	94
2-Propanol	84
Carbon Disulfide	113
3-Chloropropene	100
Methylene Chloride	98
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	105
Hexane	90
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	98
Tetrahydrofuran	84
Chloroform	96
1,1,1-Trichloroethane	94
Cyclohexane	91
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	92
Benzene	95
1,2-Dichloroethane	99
Heptane	89
Trichloroethene	96
1,2-Dichloropropane	96
1,4-Dioxane	88
Bromodichloromethane	98
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	85
Toluene	92
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	94
Tetrachloroethene	94
2-Hexanone	83

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Client Sample ID: LCSD

Lab ID#: 1210480AR1-11AA

EPA METHOD TO-15 GC/MS

File Name:	**14102804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/12 12:07 PM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	96
Chlorobenzene	95
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	90
Styrene	93
Bromoform	106
Cumene	97
1,1,2,2-Tetrachloroethane	98
Propylbenzene	99
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	116
Butane	74
Isopentane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS
Lab ID#: 1210480AR1-11B
EPA METHOD TO-15 GC/MS

File Name:	**14102903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 11:06 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	100
Chloromethane	100
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	105
Chloroethane	104
Freon 11	103
Ethanol	92
Freon 113	98
1,1-Dichloroethene	102
Acetone	92
2-Propanol	83
Carbon Disulfide	114
3-Chloropropene	100
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	107
Hexane	89
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	97
Tetrahydrofuran	86
Chloroform	95
1,1,1-Trichloroethane	93
Cyclohexane	92
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	92
Benzene	96
1,2-Dichloroethane	98
Heptane	90
Trichloroethene	96
1,2-Dichloropropane	96
1,4-Dioxane	86
Bromodichloromethane	100
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	85
Toluene	92
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	95
Tetrachloroethene	95
2-Hexanone	84

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Client Sample ID: LCS

Lab ID#: 1210480AR1-11B

EPA METHOD TO-15 GC/MS

File Name:	**14102903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 11:06 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	99
Chlorobenzene	97
Ethyl Benzene	92
m,p-Xylene	96
o-Xylene	94
Styrene	94
Bromoform	107
Cumene	99
1,1,2,2-Tetrachloroethane	101
Propylbenzene	102
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	128
Hexachlorobutadiene	121
Butane	76
Isopentane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD
Lab ID#: 1210480AR1-11BB
EPA METHOD TO-15 GC/MS

File Name:	**14102904**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 11:26 AM**

Compound	%Recovery
Freon 12	103
Freon 114	97
Chloromethane	100
Vinyl Chloride	89
1,3-Butadiene	79
Bromomethane	104
Chloroethane	103
Freon 11	102
Ethanol	80
Freon 113	96
1,1-Dichloroethene	102
Acetone	92
2-Propanol	84
Carbon Disulfide	116
3-Chloropropene	98
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	104
Hexane	89
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	96
Tetrahydrofuran	85
Chloroform	95
1,1,1-Trichloroethane	92
Cyclohexane	91
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	92
Benzene	94
1,2-Dichloroethane	98
Heptane	89
Trichloroethene	94
1,2-Dichloropropane	94
1,4-Dioxane	85
Bromodichloromethane	97
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	85
Toluene	91
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	95
Tetrachloroethene	94
2-Hexanone	83

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Client Sample ID: LCSD

Lab ID#: 1210480AR1-11BB

EPA METHOD TO-15 GC/MS

File Name:	**14102904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/12 11:26 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	98
Chlorobenzene	96
Ethyl Benzene	90
m,p-Xylene	94
o-Xylene	90
Styrene	93
Bromoform	106
Cumene	97
1,1,2,2-Tetrachloroethane	99
Propylbenzene	99
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	134 Q
Hexachlorobutadiene	122
Butane	75
Isopentane	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

1210480

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** **Lab Vendor #**	**Please Check Appropriate Box:** ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	**Print Bill To Contact Name:** Robert Moosheglan PO #:	**INCIDENT # (ENV SERVICES)** 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/19/12 PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis	PHONE NO.: 314-743-4179
LABORATORY NAME: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719			
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: Robert.Moosheglan@urs.com	

GLOBAL ID NO.:	E-MAIL: Elizabeth.Kunkel@URSCorp.com	CONSULTANT PROJECT NAME/#: Roxana Soil Vapor	
L.Rathnow, S. Jansen, C. Kretzer, D. Mattingly, M. Manseker			

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
DK	VMP-3-39-101912	10/19/12	1120-1151	15748	-29	-8			X	X						
DK	VMP-3-31.5-101912	10/19/12	1019-1052	12808	-29.5	-8			X	X						
DK	VMP-4-39-101812	10/18/12	1142-1220	35436	-29	-9.5			X	X						
DK	VMP-14-20-101812	10/16/12	0850-0920	37428	-30	-8			X	X						
DK	VMP-14-29-101612	10/16/12	0935-1006	35654	-30	-8			X	X						
DK	VMP-31-20-101912	10/19/12	1128-1201	3391	-29.5	-8			X	X						
DK	VMP-31-30-101912	10/19/12	1038-1113	11834	-30	-8.5			X	X						
DK	VMP-32-30-101812	10/18/12	1538-1610	38539	-28.5	-8			X	X						
		10/19/12														

Turn Around Time: ☑ Normal ☐ Rush _____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/19/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/22/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2/06 Revision

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11/19/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210480BR1

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/22/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210480BR1

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/22/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/07/2012		
DATE REISSUED:	11/19/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-3-39-101912	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-3-31.5-101912	Modified ASTM D-1946	8.0 "Hg	15 psi
03A	VMP-4-23.5-101812	Modified ASTM D-1946	9.0 "Hg	15 psi
04A	VMP-14-20-101612	Modified ASTM D-1946	8.5 "Hg	15 psi
05A	VMP-14-29-101612	Modified ASTM D-1946	8.5 "Hg	15 psi
06A	VMP-31-20-101912	Modified ASTM D-1946	8.0 "Hg	15 psi
07A	VMP-31-30-101912	Modified ASTM D-1946	8.0 "Hg	15 psi
08A	VMP-32-30-101812	Modified ASTM D-1946	8.0 "Hg	15 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayes DATE: 11/19/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210480BR1

Eight 1 Liter Summa Canister samples were received on October 22, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-4-39-101812 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

The Chain of Custody (COC) information for sample VMP-4-39-101812 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

THE WORK ORDER WAS REISSUED ON 11/19/2012 TO CORRECT IDENTIFICATION OF THE SAMPLE VMP-4-23.5-101812 .

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-39-101912

Lab ID#: 1210480BR1-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.5
Nitrogen	0.28	72
Methane	0.00028	12
Carbon Dioxide	0.028	8.1
Ethane	0.0028	0.0050
Helium	0.14	0.058 J

Client Sample ID: VMP-3-31.5-101912

Lab ID#: 1210480BR1-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	80
Methane	0.00028	0.21
Carbon Dioxide	0.028	2.8

Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480BR1-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	14
Nitrogen	0.29	78
Methane	0.00029	0.32
Carbon Dioxide	0.029	7.5
Ethene	0.0029	0.000060 J
Helium	0.14	0.031 J

Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480BR1-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480BR1-04A

Nitrogen	0.28	74
Methane	0.00028	5.4
Carbon Dioxide	0.028	18
Ethane	0.0028	0.00081 J
Helium	0.14	0.061 J

Client Sample ID: VMP-14-29-101612

Lab ID#: 1210480BR1-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.6
Nitrogen	0.28	75
Methane	0.00028	5.5
Carbon Dioxide	0.028	17
Ethane	0.0028	0.0012 J
Helium	0.14	0.041 J

Client Sample ID: VMP-31-20-101912

Lab ID#: 1210480BR1-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.9
Nitrogen	0.28	82
Methane	0.00028	0.014
Carbon Dioxide	0.028	8.0
Helium	0.14	0.21

Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480BR1-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Methane	0.00028	0.0031

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480BR1-07A

Carbon Dioxide	0.028	2.5
Helium	0.14	0.021 J

Client Sample ID: VMP-32-30-101812

Lab ID#: 1210480BR1-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.0
Nitrogen	0.28	83
Methane	0.00028	0.015
Carbon Dioxide	0.028	10
Helium	0.14	0.013 J

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Client Sample ID: VMP-3-39-101912

Lab ID#: 1210480BR1-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102624**	**Date of Collection:**	**10/19/12 11:51:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 04:54 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.5
Nitrogen	0.28	72
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	12
Carbon Dioxide	0.028	8.1
Ethane	0.0028	0.0050
Ethene	0.0028	Not Detected
Helium	0.14	0.058 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-3-31.5-101912

Lab ID#: 1210480BR1-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102625**	**Date of Collection:**	**10/19/12 10:52:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 05:17 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.21
Carbon Dioxide	0.028	2.8
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-4-23.5-101812

Lab ID#: 1210480BR1-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102626**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/26/12 05:53 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	14
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.32
Carbon Dioxide	0.029	7.5
Ethane	0.0029	Not Detected
Ethene	0.0029	0.000060 J
Helium	0.14	0.031 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-14-20-101612

Lab ID#: 1210480BR1-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102627**	**Date of Collection:**	**10/16/12 9:20:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/26/12 06:49 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4
Nitrogen	0.28	74
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	5.4
Carbon Dioxide	0.028	18
Ethane	0.0028	0.00081 J
Ethene	0.0028	Not Detected
Helium	0.14	0.061 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-14-29-101612

Lab ID#: 1210480BR1-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102628**	**Date of Collection:**	**10/16/12 10:06:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**10/26/12 07:15 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.6
Nitrogen	0.28	75
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	5.5
Carbon Dioxide	0.028	17
Ethane	0.0028	0.0012 J
Ethene	0.0028	Not Detected
Helium	0.14	0.041 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-31-20-101912

Lab ID#: 1210480BR1-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102623**	**Date of Collection:**	**10/19/12 12:01:00 P**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 04:23 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.9
Nitrogen	0.28	82
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.014
Carbon Dioxide	0.028	8.0
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.21

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-31-30-101912

Lab ID#: 1210480BR1-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102622**	**Date of Collection:**	**10/19/12 11:13:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 03:59 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0031
Carbon Dioxide	0.028	2.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.021 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-32-30-101812

Lab ID#: 1210480BR1-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102621**	**Date of Collection:**	**10/18/12 4:10:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 03:29 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.0
Nitrogen	0.28	83
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.015
Carbon Dioxide	0.028	10
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210480BR1-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102608a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 09:34 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.016 J
Nitrogen	0.10	0.075 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210480BR1-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102607b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 09:10 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210480BR1-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 08:16 AM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	97
Carbon Dioxide	101
Ethane	99
Ethene	96
Helium	102

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210480BR1-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9102632**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 08:51 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	94
Methane	96
Carbon Dioxide	100
Ethane	98
Ethene	95
Helium	100

Container Type: NA - Not Applicable

1210480

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/19/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L.Rathnow, S. Jansen, C. Kretzer, D. Mattingly, M. Manseker
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Moosheglan@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
DIA	VMP-3-39-101912	10/19/12	1120-1151	15748	-29	-8			X	X	
DIA	VMP-3-31.5-101912	10/19/12	1019-1052	12808	-29.5	-8			X	X	
DIA	VMP-4-39-101812	10/18/12	1142-1220	35436	-29	-9.5			X	X	
DIA	VMP-14-29-101812	10/16/12	0850-0920	37428	-30	-8			X	X	
DIA	VMP-14-29-101812	10/16/12	0935-1006	35654	-30	-8			X	X	
DIA	VMP-31-29-101912	10/19/12	1128-1201	3391	-29.5	-8			X	X	
DIA	VMP-31-30-101912	10/19/12	1038-1113	11834	-30	-8.5			X	X	
DIA	VMP-32-30-101812	10/18/12	1538-1610	36539	-28.5	-8			X	X	
		10/19/12									

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	10/19/12	1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[illegible]	10/22/12	0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2.04 Revision

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210481A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/20/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-3-10-101812	VMP-3-22-101812
VMP-4-5-101812	VMP-4-12-101812
VMP-4-12-101812-Dup	VMP-11-29-101612
VMP-32-5-101812	VMP-32-10-101812
VMP-32-20-101812	VMP-43-10-101612
VMP-43-20-101812	VMP-43-30-101812

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS recovery for 1,2,4-trimethylbenzene was outside evaluation criteria. Additionally, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210481A-13A	TO-15	Methylene chloride	0.22 ppbv / 0.75 µg/m^3
1210481A-13A	TO-15	1,1,2,2-Tetrachloroethane	0.099 ppbv / 0.68 µg/m^3
1210481A-13A	TO-15	1,3-Dichlorobenzene	0.21 ppbv / 1.3 µg/m^3
1210481A-13A	TO-15	1,4-Dichlorobenzene	0.25 ppbv / 1.5 µg/m^3
1210481A-13A	TO-15	alpha-Chlorotoluene	0.23 ppbv / 1.2 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210481A-13A	TO-15	1,2-Dichlorobenzene	0.26 ppbv / 1.5 µg/m^3
1210481A-13A	TO-15	1,2,4-Trichlorobenzene	0.77 ppbv / 5.7 µg/m^3

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-32-5-101812	TO-15	Methylene chloride	-	**U**
VMP-43-20-101812	TO-15	Methylene chloride	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210481A-15A	TO-15	1,2,4-Trimethylbenzene	**69**/75	8	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-3-10-101812	TO-15	1,2,4-Trimethylbenzene	**J**
VMP-3-22-101812	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-4-5-101812	TO-15	1,2,4-Trimethylbenzene	**J**
VMP-4-12-101812	TO-15	1,2,4-Trimethylbenzene	**J**
VMP-4-12-101812-Dup	TO-15	1,2,4-Trimethylbenzene	**J**
VMP-11-29-101612	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-32-5-101812	TO-15	1,2,4-Trimethylbenzene	**J**
VMP-32-10-101812	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-32-20-101812	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-43-10-101612	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-43-20-101812	TO-15	1,2,4-Trimethylbenzene	**UJ**
VMP-43-30-101812	TO-15	1,2,4-Trimethylbenzene	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-4-12-101812	VMP-4-12-101812-Dup

Were field duplicate sample RPDs within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties; qualifications are summarized in the following table.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-3-10-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-3-22-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-4-5-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-4-12-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-4-12-101812-Dup	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-11-29-101612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-32-5-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-32-10-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-32-20-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-43-10-101612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-43-20-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-43-30-101812	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment

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11/6/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210481A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/22/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/20/12

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WORK ORDER #: 1210481A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/22/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/06/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-3-10-101812	Modified TO-15	10.0 "Hg	15 psi
02A	VMP-3-22-101812	Modified TO-15	9.5 "Hg	15 psi
03A	VMP-4-5-101812	Modified TO-15	10.5 "Hg	15 psi
04A	VMP-4-12-101812	Modified TO-15	10.0 "Hg	15 psi
05A	VMP-4-12-101812-Dup	Modified TO-15	10.5 "Hg	15 psi
06A	VMP-11-29-101612	Modified TO-15	9.5 "Hg	15 psi
07A	VMP-32-5-101812	Modified TO-15	11.0 "Hg	15 psi
08A	VMP-32-10-101812	Modified TO-15	9.5 "Hg	15 psi
09A	VMP-32-20-101812	Modified TO-15	8.0 "Hg	15 psi
10A	VMP-43-10-101612	Modified TO-15	11.0 "Hg	15 psi
11A	VMP-43-20-101812	Modified TO-15	7.0 "Hg	15 psi
12A	VMP-43-30-101812	Modified TO-15	8.0 "Hg	15 psi
13A	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA
15AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/06/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210481A

Twelve 1 Liter Summa Canister samples were received on October 22, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene was raised from 2.0 ppbv to 5.0 ppbv.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-3-10-101812

Lab ID#: 1210481A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.5	2.5 J
Freon 11	1.5	0.62 J	8.5	3.5 J
Ethanol	6.1	10	11	20
Acetone	15	12 J	36	29 J
2-Propanol	6.1	4.7 J	15	12 J
Hexane	1.5	130	5.3	460
2-Butanone (Methyl Ethyl Ketone)	6.1	2.7 J	18	8.0 J
Cyclohexane	1.5	30	5.2	100
2,2,4-Trimethylpentane	1.5	54	7.1	250
Benzene	1.5	20	4.8	66
Heptane	1.5	50	6.2	200
4-Methyl-2-pentanone	1.5	5.8	6.2	24
Toluene	1.5	5.7	5.7	22
Ethyl Benzene	1.5	2.8	6.6	12
m,p-Xylene	1.5	6.5	6.6	28
o-Xylene	1.5	4.0	6.6	17
Cumene	1.5	0.35 J	7.4	1.7 J
Propylbenzene	1.5	0.23 J	7.4	1.1 J
4-Ethyltoluene	1.5	2.2	7.4	11
1,3,5-Trimethylbenzene	1.5	3.7	7.4	18
1,2,4-Trimethylbenzene	1.5	0.86 J J	7.4	4.2 J J
Butane	6.1	2.0 J	14	4.8 J
Isopentane	6.1	29	18	85

Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.49 J	7.3	2.4 J
Ethanol	5.9	2.2 J	11	4.2 J
Acetone	15	14 J	35	34 J
2-Propanol	5.9	1.3 J	14	3.2 J
Hexane	1.5	1.2 J	5.2	4.2 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481A-02A

2-Butanone (Methyl Ethyl Ketone)	5.9	4.6 J	17	13 J
Chloroform	1.5	6.8	7.2	33
Cyclohexane	1.5	1.0 J	5.1	3.5 J
2,2,4-Trimethylpentane	1.5	2.6	6.9	12
Benzene	1.5	45	4.7	140
Heptane	1.5	1.9	6.1	7.8
4-Methyl-2-pentanone	1.5	10	6.1	43
Toluene	1.5	22	5.6	84
m,p-Xylene	1.5	0.70 J	6.4	3.0 J
Butane	5.9	7.8	14	18
Isopentane	5.9	9.6	17	28

Client Sample ID: VMP-4-5-101812

Lab ID#: 1210481A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.64 J	7.7	3.2 J
Ethanol	6.2	22	12	41
Acetone	16	9.3 J	37	22 J
2-Propanol	6.2	4.1 J	15	10 J
2-Butanone (Methyl Ethyl Ketone)	6.2	2.4 J	18	7.0 J
Cyclohexane	1.6	0.35 J	5.4	1.2 J
2,2,4-Trimethylpentane	1.6	1.5 J	7.3	7.0 J
Benzene	1.6	96	5.0	310
Heptane	1.6	0.44 J	6.4	1.8 J
4-Methyl-2-pentanone	1.6	12	6.4	48
Toluene	1.6	1.6	5.8	6.2
m,p-Xylene	1.6	0.50 J	6.8	2.2 J
Cumene	1.6	5.1	7.6	25
1,2,4-Trimethylbenzene	1.6	0.39 J J	7.6	1.9 J J
Butane	6.2	1.6 J	15	3.8 J
Isopentane	6.2	1.7 J	18	5.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	15	0.96 J	31	2.0 J
Ethanol	6.1	10	11	19
Acetone	15	16	36	38
2-Propanol	6.1	4.0 J	15	9.8 J
Methylene Chloride	15	1.8 J	53	6.4 J
Hexane	1.5	0.90 J	5.3	3.2 J
2-Butanone (Methyl Ethyl Ketone)	6.1	1.4 J	18	4.3 J
Cyclohexane	1.5	0.59 J	5.2	2.0 J
2,2,4-Trimethylpentane	1.5	1.4 J	7.1	6.4 J
Benzene	1.5	1.3 J	4.8	4.0 J
Heptane	1.5	3.4	6.2	14
4-Methyl-2-pentanone	1.5	0.94 J	6.2	3.8 J
Toluene	1.5	8.2	5.7	31
Ethyl Benzene	1.5	4.5	6.6	19
m,p-Xylene	1.5	9.7	6.6	42
o-Xylene	1.5	1.8	6.6	8.0
Cumene	1.5	0.31 J	7.4	1.5 J
Propylbenzene	1.5	0.17 J	7.4	0.85 J
4-Ethyltoluene	1.5	0.24 J	7.4	1.2 J
1,2,4-Trimethylbenzene	1.5	0.26 J J	7.4	1.2 J J
Butane	6.1	4.8 J	14	11 J
Isopentane	6.1	6.4	18	19

Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.47 J	7.7	2.3 J
Chloromethane	16	3.4 J	32	7.1 J
Ethanol	6.2	6.3	12	12
Acetone	16	15 J	37	35 J
2-Propanol	6.2	1.6 J	15	4.0 J
Carbon Disulfide	6.2	2.1 J	19	6.6 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481A-05A

Hexane	1.6	0.92 J	5.5	3.2 J
Cyclohexane	1.6	0.71 J	5.4	2.4 J
2,2,4-Trimethylpentane	1.6	2.2	7.3	10
Benzene	1.6	1.2 J	5.0	3.8 J
Heptane	1.6	3.9	6.4	16
4-Methyl-2-pentanone	1.6	1.1 J	6.4	4.4 J
Toluene	1.6	8.7	5.8	33
Ethyl Benzene	1.6	5.3	6.8	23
m,p-Xylene	1.6	12	6.8	51
o-Xylene	1.6	2.6	6.8	11
Cumene	1.6	0.30 J	7.6	1.4 J
Propylbenzene	1.6	0.23 J	7.6	1.1 J
4-Ethyltoluene	1.6	0.39 J	7.6	1.9 J
1,3,5-Trimethylbenzene	1.6	0.40 J	7.6	2.0 J
1,2,4-Trimethylbenzene	1.6	0.80 J J	7.6	4.0 J J
Butane	6.2	4.5 J	15	11 J
Isopentane	6.2	4.0 J	18	12 J

Client Sample ID: VMP-11-29-101612

Lab ID#: 1210481A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.48 J	7.3	2.4 J
Freon 11	1.5	0.27 J	8.3	1.5 J
Ethanol	5.9	2.7 J	11	5.1 J
Acetone	15	11 J	35	27 J
2-Propanol	5.9	7.2	14	18
Methyl tert-butyl ether	1.5	0.22 J	5.3	0.79 J
Chloroform	1.5	16	7.2	80
2,2,4-Trimethylpentane	1.5	1.5	6.9	7.1
Benzene	1.5	0.48 J	4.7	1.5 J
Toluene	1.5	0.52 J	5.6	2.0 J
m,p-Xylene	1.5	0.27 J	6.4	1.2 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-32-5-101812

Lab ID#: 1210481A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	6.4	3.9 J	12	7.3 J
Acetone	16	34	38	80
2-Propanol	6.4	3.9 J	16	9.6 J
Methylene Chloride	16	~~1.1 J~~ U	55	~~3.7 J~~ U
Hexane	1.6	2.9	5.6	10
2-Butanone (Methyl Ethyl Ketone)	6.4	2.4 J	19	7.2 J
Cyclohexane	1.6	4.6	5.5	16
2,2,4-Trimethylpentane	1.6	47	7.4	220
Benzene	1.6	1.2 J	5.1	3.7 J
Heptane	1.6	5.5	6.5	22
Toluene	1.6	0.86 J	6.0	3.3 J
Chlorobenzene	1.6	0.96 J	7.3	4.4 J
m,p-Xylene	1.6	0.62 J	6.9	2.7 J
Cumene	1.6	0.31 J	7.8	1.5 J
Propylbenzene	1.6	0.18 J	7.8	0.90 J
1,2,4-Trimethylbenzene	1.6	0.27 J J	7.8	1.3 J J
Isopentane	6.4	4.7 J	19	14 J

Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.3	2.5 J
Chloromethane	15	1.5 J	30	3.0 J
Ethanol	5.9	3.1 J	11	5.9 J
Acetone	15	20	35	47
2-Propanol	5.9	1.7 J	14	4.1 J
Carbon Disulfide	5.9	2.2 J	18	7.0 J
Hexane	1.5	1.6	5.2	5.6
Cyclohexane	1.5	3.5	5.1	12
2,2,4-Trimethylpentane	1.5	20	6.9	93
Benzene	1.5	8.3	4.7	26
Heptane	1.5	2.9	6.1	12

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481A-08A

Toluene	1.5	0.40 J	5.6	1.5 J
Chlorobenzene	1.5	0.55 J	6.8	2.5 J
m,p-Xylene	1.5	0.41 J	6.4	1.8 J
Butane	5.9	1.9 J	14	4.5 J
Isopentane	5.9	6.7	17	20

Client Sample ID: VMP-32-20-101812

Lab ID#: 1210481A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.53 J	6.8	2.6 J
Freon 11	1.4	0.27 J	7.8	1.5 J
Ethanol	5.5	2.9 J	10	5.4 J
Acetone	14	21	33	51
2-Propanol	5.5	2.0 J	14	4.8 J
Hexane	1.4	1.1 J	4.9	3.9 J
Cyclohexane	1.4	2.2	4.8	7.6
2,2,4-Trimethylpentane	1.4	30	6.4	140
Benzene	1.4	0.44 J	4.4	1.4 J
Heptane	1.4	2.3	5.6	9.4
4-Methyl-2-pentanone	1.4	3.0	5.6	12
Toluene	1.4	0.60 J	5.2	2.3 J
Chlorobenzene	1.4	0.55 J	6.4	2.5 J
m,p-Xylene	1.4	0.38 J	6.0	1.6 J
Cumene	1.4	0.87 J	6.8	4.3 J
Propylbenzene	1.4	0.14 J	6.8	0.70 J
Isopentane	5.5	1.1 J	16	3.3 J

Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.45 J	7.9	2.2 J
Ethanol	6.4	4.3 J	12	8.1 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481A-10A

Acetone	16	17	38	40
2-Propanol	6.4	46	16	110
Carbon Disulfide	6.4	4.8 J	20	15 J
2,2,4-Trimethylpentane	1.6	1.5 J	7.4	6.9 J
Benzene	1.6	6.8	5.1	22
4-Methyl-2-pentanone	1.6	2.2	6.5	8.9
Toluene	1.6	2.1	6.0	8.0
m,p-Xylene	1.6	0.30 J	6.9	1.3 J
Cumene	1.6	0.86 J	7.8	4.2 J
Isopentane	6.4	0.58 J	19	1.7 J

Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.63 J	6.5	3.1 J
Freon 11	1.3	0.25 J	7.4	1.4 J
Ethanol	5.3	34	9.9	63
Acetone	13	120	31	290
2-Propanol	5.3	8.9	13	22
Methylene Chloride	13	~~0.82 J~~ 4	46	~~2.8 J~~ 4
2-Butanone (Methyl Ethyl Ketone)	5.3	2.0 J	16	6.0 J
Tetrahydrofuran	1.3	1.0 J	3.9	3.1 J
Chloroform	1.3	1.1 J	6.4	5.3 J
2,2,4-Trimethylpentane	1.3	52	6.2	240
Benzene	1.3	0.83 J	4.2	2.6 J
4-Methyl-2-pentanone	1.3	1.8	5.4	7.2
Toluene	1.3	2.4	5.0	9.2
m,p-Xylene	1.3	0.42 J	5.7	1.8 J
Cumene	1.3	0.77 J	6.5	3.8 J
Butane	5.3	13	12	32
Isopentane	5.3	12	16	34

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-43-30-101812

Lab ID#: 1210481A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	6.8	2.5 J
Ethanol	5.5	7.6	10	14
Acetone	14	8.4 J	33	20 J
2-Propanol	5.5	2.1 J	14	5.1 J
Hexane	1.4	1.3 J	4.9	4.6 J
Chloroform	1.4	1.7	6.7	8.2
Cyclohexane	1.4	0.72 J	4.8	2.5 J
2,2,4-Trimethylpentane	1.4	3.2	6.4	15
Benzene	1.4	90	4.4	290
Bromodichloromethane	1.4	0.27 J	9.2	1.8 J
4-Methyl-2-pentanone	1.4	0.48 J	5.6	2.0 J
Toluene	1.4	0.53 J	5.2	2.0 J
Cumene	1.4	0.17 J	6.8	0.86 J
Butane	5.5	3.7 J	13	8.7 J
Isopentane	5.5	11	16	32

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Client Sample ID: VMP-3-10-101812

Lab ID#: 1210481A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102607**	**Date of Collection:**	**10/18/12 2:52:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/26/12 04:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.5	2.5 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	0.62 J	8.5	3.5 J
Ethanol	6.1	10	11	20
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	12 J	36	29 J
2-Propanol	6.1	4.7 J	15	12 J
Carbon Disulfide	6.1	Not Detected	19	Not Detected
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	Not Detected	53	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	130	5.3	460
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	2.7 J	18	8.0 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	30	5.2	100
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	54	7.1	250
Benzene	1.5	20	4.8	66
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	50	6.2	200
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	5.8	6.2	24
Toluene	1.5	5.7	5.7	22
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-3-10-101812

Lab ID#: 1210481A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102607**	**Date of Collection:**	**10/18/12 2:52:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/26/12 04:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	2.8	6.6	12
m,p-Xylene	1.5	6.5	6.6	28
o-Xylene	1.5	4.0	6.6	17
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	0.35 J	7.4	1.7 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.23 J	7.4	1.1 J
4-Ethyltoluene	1.5	2.2	7.4	11
1,3,5-Trimethylbenzene	1.5	3.7	7.4	18
1,2,4-Trimethylbenzene	1.5	0.86 J J	7.4	4.2 J J
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	2.0 J	14	4.8 J
Isopentane	6.1	29	18	85

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102608**	**Date of Collection:**	**10/18/12 3:38:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 04:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.49 J	7.3	2.4 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	2.2 J	11	4.2 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	14 J	35	34 J
2-Propanol	5.9	1.3 J	14	3.2 J
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	Not Detected	51	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	1.2 J	5.2	4.2 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	4.6 J	17	13 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	6.8	7.2	33
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	1.0 J	5.1	3.5 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	2.6	6.9	12
Benzene	1.5	45	4.7	140
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	1.9	6.1	7.8
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	10	6.1	43
Toluene	1.5	22	5.6	84
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102608**	**Date of Collection:**	**10/18/12 3:38:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 04:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.70 J	6.4	3.0 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected UJ	7.3	Not Detected UJ
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	7.8	14	18
Isopentane	5.9	9.6	17	28

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-4-5-101812

Lab ID#: 1210481A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102609**	**Date of Collection:**	**10/18/12 10:50:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/26/12 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.64 J	7.7	3.2 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	32	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	22	12	41
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	9.3 J	37	22 J
2-Propanol	6.2	4.1 J	15	10 J
Carbon Disulfide	6.2	Not Detected	19	Not Detected
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	Not Detected	54	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	Not Detected	5.5	Not Detected
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	2.4 J	18	7.0 J
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	0.35 J	5.4	1.2 J
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	1.5 J	7.3	7.0 J
Benzene	1.6	96	5.0	310
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	0.44 J	6.4	1.8 J
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	12	6.4	48
Toluene	1.6	1.6	5.8	6.2
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	Not Detected	10	Not Detected
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-4-5-101812

Lab ID#: 1210481A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102609**	**Date of Collection:**	**10/18/12 10:50:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/26/12 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	Not Detected	6.8	Not Detected
m,p-Xylene	1.6	0.50 J	6.8	2.2 J
o-Xylene	1.6	Not Detected	6.8	Not Detected
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	5.1	7.6	25
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.6	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.6	Not Detected
1,2,4-Trimethylbenzene	1.6	0.39 J J	7.6	1.9 J J
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected UJ	120	Not Detected UJ
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	1.6 J	15	3.8 J
Isopentane	6.2	1.7 J	18	5.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102611**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/26/12 06:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	Not Detected	7.5	Not Detected
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	0.96 J	31	2.0 J
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	15	Not Detected	59	Not Detected
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	10	11	19
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	15	16	36	38
2-Propanol	6.1	4.0 J	15	9.8 J
Carbon Disulfide	6.1	Not Detected	19	Not Detected
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	15	1.8 J	53	6.4 J
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	0.90 J	5.3	3.2 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	1.4 J	18	4.3 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	0.59 J	5.2	2.0 J
Carbon Tetrachloride	1.5	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	1.5	1.4 J	7.1	6.4 J
Benzene	1.5	1.3 J	4.8	4.0 J
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	3.4	6.2	14
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	0.94 J	6.2	3.8 J
Toluene	1.5	8.2	5.7	31
trans-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	6.1	Not Detected	25	Not Detected

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Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102611**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/26/12 06:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	Not Detected	7.0	Not Detected
Ethyl Benzene	1.5	4.5	6.6	19
m,p-Xylene	1.5	9.7	6.6	42
o-Xylene	1.5	1.8	6.6	8.0
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	0.31 J	7.4	1.5 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.17 J	7.4	0.85 J
4-Ethyltoluene	1.5	0.24 J	7.4	1.2 J
1,3,5-Trimethylbenzene	1.5	Not Detected	7.4	Not Detected
1,2,4-Trimethylbenzene	1.5	0.26 J	7.4	1.2 J
1,3-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.1	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected	110	Not Detected
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	4.8 J	14	11 J
Isopentane	6.1	6.4	18	19

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102610**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/26/12 06:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.47 J	7.7	2.3 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	3.4 J	32	7.1 J
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	6.3	12	12
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	15 J	37	35 J
2-Propanol	6.2	1.6 J	15	4.0 J
Carbon Disulfide	6.2	2.1 J	19	6.6 J
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	Not Detected	54	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	0.92 J	5.5	3.2 J
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	0.71 J	5.4	2.4 J
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	2.2	7.3	10
Benzene	1.6	1.2 J	5.0	3.8 J
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	3.9	6.4	16
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	1.1 J	6.4	4.4 J
Toluene	1.6	8.7	5.8	33
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	Not Detected	10	Not Detected
2-Hexanone	6.2	Not Detected	25	Not Detected

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Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102610**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/26/12 06:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	5.3	6.8	23
m,p-Xylene	1.6	12	6.8	51
o-Xylene	1.6	2.6	6.8	11
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	0.30 J	7.6	1.4 J
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	0.23 J	7.6	1.1 J
4-Ethyltoluene	1.6	0.39 J	7.6	1.9 J
1,3,5-Trimethylbenzene	1.6	0.40 J	7.6	2.0 J
1,2,4-Trimethylbenzene	1.6	0.80 J J	7.6	4.0 J J
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected UJ	120	Not Detected UJ
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	4.5 J	15	11 J
Isopentane	6.2	4.0 J	18	12 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-11-29-101612

Lab ID#: 1210481A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102612**	**Date of Collection:**	**10/16/12 2:21:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.48 J	7.3	2.4 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.27 J	8.3	1.5 J
Ethanol	5.9	2.7 J	11	5.1 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	11 J	35	27 J
2-Propanol	5.9	7.2	14	18
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	Not Detected	51	Not Detected
Methyl tert-butyl ether	1.5	0.22 J	5.3	0.79 J
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	Not Detected	5.2	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	16	7.2	80
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	1.5	6.9	7.1
Benzene	1.5	0.48 J	4.7	1.5 J
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	0.52 J	5.6	2.0 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-11-29-101612

Lab ID#: 1210481A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102612**	**Date of Collection:**	**10/16/12 2:21:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.27 J	6.4	1.2 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected UJ	7.3	Not Detected UJ
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VMP-32-5-101812

Lab ID#: 1210481A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102613**	**Date of Collection:**	**10/18/12 11:36:00 A**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/26/12 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	7.9	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	1.6	Not Detected	4.1	Not Detected
1,3-Butadiene	1.6	Not Detected	3.5	Not Detected
Bromomethane	16	Not Detected	62	Not Detected
Chloroethane	6.4	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.0	Not Detected
Ethanol	6.4	3.9 J	12	7.3 J
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Acetone	16	34	38	80
2-Propanol	6.4	3.9 J	16	9.6 J
Carbon Disulfide	6.4	Not Detected	20	Not Detected
3-Chloropropene	6.4	Not Detected	20	Not Detected
Methylene Chloride	16	~~1.1 J~~ U	55	~~3.7 J~~ U
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Hexane	1.6	2.9	5.6	10
1,1-Dichloroethane	1.6	Not Detected	6.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.4	2.4 J	19	7.2 J
cis-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	1.6	Not Detected	7.8	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Cyclohexane	1.6	4.6	5.5	16
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	47	7.4	220
Benzene	1.6	1.2 J	5.1	3.7 J
1,2-Dichloroethane	1.6	Not Detected	6.4	Not Detected
Heptane	1.6	5.5	6.5	22
Trichloroethene	1.6	Not Detected	8.6	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.4	Not Detected
1,4-Dioxane	6.4	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.5	Not Detected
Toluene	1.6	0.86 J	6.0	3.3 J
trans-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.4	Not Detected	26	Not Detected

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Client Sample ID: VMP-32-5-101812

Lab ID#: 1210481A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102613**	**Date of Collection:**	**10/18/12 11:36:00 A**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/26/12 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	0.96 J	7.3	4.4 J
Ethyl Benzene	1.6	Not Detected	6.9	Not Detected
m,p-Xylene	1.6	0.62 J	6.9	2.7 J
o-Xylene	1.6	Not Detected	6.9	Not Detected
Styrene	1.6	Not Detected	6.8	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	0.31 J	7.8	1.5 J
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	0.18 J	7.8	0.90 J
4-Ethyltoluene	1.6	Not Detected	7.8	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,2,4-Trimethylbenzene	1.6	0.27 J J	7.8	1.3 J J
1,3-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected UJ	120	Not Detected UJ
Hexachlorobutadiene	6.4	Not Detected	68	Not Detected
Butane	6.4	Not Detected	15	Not Detected
Isopentane	6.4	4.7 J	19	14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102614**	**Date of Collection:**	**10/18/12 2:25:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 08:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.50 J	7.3	2.5 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	1.5 J	30	3.0 J
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	3.1 J	11	5.9 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	20	35	47
2-Propanol	5.9	1.7 J	14	4.1 J
Carbon Disulfide	5.9	2.2 J	18	7.0 J
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	Not Detected	51	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	1.6	5.2	5.6
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	3.5	5.1	12
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	20	6.9	93
Benzene	1.5	8.3	4.7	26
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	2.9	6.1	12
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	Not Detected	6.1	Not Detected
Toluene	1.5	0.40 J	5.6	1.5 J
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102614**	**Date of Collection:**	**10/18/12 2:25:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/26/12 08:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	0.55 J	6.8	2.5 J
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.41 J	6.4	1.8 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	Not Detected UJ	7.3	Not Detected UJ
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	1.9 J	14	4.5 J
Isopentane	5.9	6.7	17	20

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-32-20-101812

Lab ID#: 1210481A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102615**	**Date of Collection:**	**10/18/12 3:24:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 09:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.53 J	6.8	2.6 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.27 J	7.8	1.5 J
Ethanol	5.5	2.9 J	10	5.4 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	21	33	51
2-Propanol	5.5	2.0 J	14	4.8 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	1.1 J	4.9	3.9 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	2.2	4.8	7.6
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	30	6.4	140
Benzene	1.4	0.44 J	4.4	1.4 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	2.3	5.6	9.4
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	3.0	5.6	12
Toluene	1.4	0.60 J	5.2	2.3 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-32-20-101812

Lab ID#: 1210481A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102615**	**Date of Collection:**	**10/18/12 3:24:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 09:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	0.55 J	6.4	2.5 J
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	0.38 J	6.0	1.6 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	0.87 J	6.8	4.3 J
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.14 J	6.8	0.70 J
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected UJ	6.8	Not Detected UJ
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected UJ	100	Not Detected UJ
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.1 J	16	3.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	115	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102616**	**Date of Collection:**	**10/16/12 3:32:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/26/12 10:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	0.45 J	7.9	2.2 J
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	1.6	Not Detected	4.1	Not Detected
1,3-Butadiene	1.6	Not Detected	3.5	Not Detected
Bromomethane	16	Not Detected	62	Not Detected
Chloroethane	6.4	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.0	Not Detected
Ethanol	6.4	4.3 J	12	8.1 J
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Acetone	16	17	38	40
2-Propanol	6.4	46	16	110
Carbon Disulfide	6.4	4.8 J	20	15 J
3-Chloropropene	6.4	Not Detected	20	Not Detected
Methylene Chloride	16	Not Detected	55	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Hexane	1.6	Not Detected	5.6	Not Detected
1,1-Dichloroethane	1.6	Not Detected	6.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.4	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	1.6	Not Detected	7.8	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Cyclohexane	1.6	Not Detected	5.5	Not Detected
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	1.5 J	7.4	6.9 J
Benzene	1.6	6.8	5.1	22
1,2-Dichloroethane	1.6	Not Detected	6.4	Not Detected
Heptane	1.6	Not Detected	6.5	Not Detected
Trichloroethene	1.6	Not Detected	8.6	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.4	Not Detected
1,4-Dioxane	6.4	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	1.6	2.2	6.5	8.9
Toluene	1.6	2.1	6.0	8.0
trans-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.7	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.4	Not Detected	26	Not Detected

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Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102616**	**Date of Collection:**	**10/16/12 3:32:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/26/12 10:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.3	Not Detected
Ethyl Benzene	1.6	Not Detected	6.9	Not Detected
m,p-Xylene	1.6	0.30 J	6.9	1.3 J
o-Xylene	1.6	Not Detected	6.9	Not Detected
Styrene	1.6	Not Detected	6.8	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	0.86 J	7.8	4.2 J
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.8	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.8	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected UJ	7.8	Not Detected UJ
1,3-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.6	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected UJ	120	Not Detected UJ
Hexachlorobutadiene	6.4	Not Detected	68	Not Detected
Butane	6.4	Not Detected	15	Not Detected
Isopentane	6.4	0.58 J	19	1.7 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102617**	**Date of Collection:**	**10/18/12 9:23:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/26/12 10:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.63 J	6.5	3.1 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.25 J	7.4	1.4 J
Ethanol	5.3	34	9.9	63
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	120	31	290
2-Propanol	5.3	8.9	13	22
Carbon Disulfide	5.3	Not Detected	16	Not Detected
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	~~0.82 J~~ U	46	~~2.8 J~~ U
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	2.0 J	16	6.0 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	1.0 J	3.9	3.1 J
Chloroform	1.3	1.1 J	6.4	5.3 J
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	52	6.2	240
Benzene	1.3	0.83 J	4.2	2.6 J
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	Not Detected	5.4	Not Detected
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	1.8	5.4	7.2
Toluene	1.3	2.4	5.0	9.2
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102617**	**Date of Collection:**	**10/18/12 9:23:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/26/12 10:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	0.42 J	5.7	1.8 J
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	0.77 J	6.5	3.8 J
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected UJ	6.5	Not Detected UJ
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	13	Not Detected UJ	98	Not Detected UJ
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	13	12	32
Isopentane	5.3	12	16	34

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-43-30-101812

Lab ID#: 1210481A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102618**	**Date of Collection:**	**10/18/12 10:15:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 11:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	6.8	2.5 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	7.6	10	14
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	8.4 J	33	20 J
2-Propanol	5.5	2.1 J	14	5.1 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	1.3 J	4.9	4.6 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	1.7	6.7	8.2
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.72 J	4.8	2.5 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	3.2	6.4	15
Benzene	1.4	90	4.4	290
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	0.27 J	9.2	1.8 J
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	0.48 J	5.6	2.0 J
Toluene	1.4	0.53 J	5.2	2.0 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-43-30-101812

Lab ID#: 1210481A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102618**	**Date of Collection:**	**10/18/12 10:15:00 A**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/26/12 11:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	0.17 J	6.8	0.86 J
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected UJ	6.8	Not Detected UJ
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected UJ	100	Not Detected UJ
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	3.7 J	13	8.7 J
Isopentane	5.5	11	16	32

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210481A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 12:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.22 J	17	0.75 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210481A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 12:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	0.099 J	3.4	0.68 J
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	0.21 J	3.0	1.3 J
1,4-Dichlorobenzene	0.50	0.25 J	3.0	1.5 J
alpha-Chlorotoluene	0.50	0.23 J	2.6	1.2 J
1,2-Dichlorobenzene	0.50	0.26 J	3.0	1.5 J
1,2,4-Trichlorobenzene	5.0	0.77 J	37	5.7 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 1210481A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 10:18 AM**

Compound	%Recovery
Freon 12	101
Freon 114	103
Chloromethane	115
Vinyl Chloride	102
1,3-Butadiene	98
Bromomethane	122
Chloroethane	111
Freon 11	94
Ethanol	121
Freon 113	90
1,1-Dichloroethene	89
Acetone	102
2-Propanol	105
Carbon Disulfide	98
3-Chloropropene	104
Methylene Chloride	96
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	90
Hexane	91
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	92
Tetrahydrofuran	96
Chloroform	94
1,1,1-Trichloroethane	95
Cyclohexane	93
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	92
Benzene	91
1,2-Dichloroethane	98
Heptane	97
Trichloroethene	97
1,2-Dichloropropane	96
1,4-Dioxane	104
Bromodichloromethane	105
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	106
Toluene	92
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	95
Tetrachloroethene	95
2-Hexanone	108

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Client Sample ID: CCV

Lab ID#: 1210481A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 10:18 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	99
Chlorobenzene	93
Ethyl Benzene	92
m,p-Xylene	93
o-Xylene	96
Styrene	97
Bromoform	108
Cumene	96
1,1,2,2-Tetrachloroethane	98
Propylbenzene	99
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	91
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	93
Butane	106
Isopentane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1210481A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 11:12 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	94
Chloromethane	109
Vinyl Chloride	95
1,3-Butadiene	90
Bromomethane	110
Chloroethane	103
Freon 11	87
Ethanol	115
Freon 113	84
1,1-Dichloroethene	89
Acetone	107
2-Propanol	100
Carbon Disulfide	110
3-Chloropropene	108
Methylene Chloride	89
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	95
Hexane	82
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	87
Tetrahydrofuran	88
Chloroform	88
1,1,1-Trichloroethane	89
Cyclohexane	84
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	81
Benzene	83
1,2-Dichloroethane	89
Heptane	86
Trichloroethene	89
1,2-Dichloropropane	86
1,4-Dioxane	93
Bromodichloromethane	93
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	91
Toluene	82
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	88
Tetrachloroethene	86
2-Hexanone	91

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Client Sample ID: LCS

Lab ID#: 1210481A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 11:12 AM**	

Compound	%Recovery
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	92
Chlorobenzene	85
Ethyl Benzene	84
m,p-Xylene	81
o-Xylene	83
Styrene	84
Bromoform	95
Cumene	83
1,1,2,2-Tetrachloroethane	92
Propylbenzene	84
4-Ethyltoluene	73
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	69 Q
1,3-Dichlorobenzene	81
1,4-Dichlorobenzene	79
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	77
Butane	92
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1210481A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 12:00 PM**	

Compound	%Recovery
Freon 12	88
Freon 114	89
Chloromethane	102
Vinyl Chloride	92
1,3-Butadiene	86
Bromomethane	109
Chloroethane	99
Freon 11	83
Ethanol	110
Freon 113	82
1,1-Dichloroethene	84
Acetone	102
2-Propanol	95
Carbon Disulfide	107
3-Chloropropene	104
Methylene Chloride	84
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	92
Hexane	79
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	83
Tetrahydrofuran	84
Chloroform	84
1,1,1-Trichloroethane	85
Cyclohexane	81
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	80
Benzene	81
1,2-Dichloroethane	87
Heptane	85
Trichloroethene	86
1,2-Dichloropropane	84
1,4-Dioxane	89
Bromodichloromethane	91
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	89
Toluene	82
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	85
Tetrachloroethene	83
2-Hexanone	86

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Client Sample ID: LCSD

Lab ID#: 1210481A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2102604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/12 12:00 PM**	

Compound	%Recovery
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	88
Chlorobenzene	83
Ethyl Benzene	82
m,p-Xylene	83
o-Xylene	85
Styrene	86
Bromoform	91
Cumene	86
1,1,2,2-Tetrachloroethane	88
Propylbenzene	88
4-Ethyltoluene	76
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	75
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	83
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	81
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	81
Butane	89
Isopentane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130

1210481

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 97216640
SAP #: 340051
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/19/12
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L Rothnow, S. Jansen, C. Kretzer, D. Mattingly, M. Mansker, C. Williams.
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
CAA	VMP-3-10-101812	10/18/12	1419-1452	36525	-29.5	-10			X	X	
CJA	VMP-3-22-101812	10/18/12	1507-1538	37694	-29	-9.5			X	X	
CSA	VMP-4-5-101812	10/18/12	0920-1050	34087	-29	-10.5			X	X	
CHA	VMP-4-12-101812	10/18/12	1009-1039	31796	-28.5	-9.5			X	X	
CSA	VMP-4-12-101812-Dup	10/18/12	1008-1039	31782	-29	-10			X	X	
CDH	VMP-11-29-101612	10/16/12	1351-1421	34129	-29.5	-8.5			X	X	
CTA	VMP-32-5-101812	10/18/12	1105-1135	33644	-29.5	-10			X	X	
CSA	VMP-32-10-101812	10/18/12	1350-1425	34611	-29.5	-9			X	X	
CJA	VMP-32-20-101812	10/18/12	1448-1524	37322	-30	-8			X	X	
CAA	VMP-43-10-101612	10/16/12	1502-1532	8018	-29.5	-10			X	X	

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

		Date	Time
Relinquished by: (Signature)	Received by: (Signature) FEDEX	10/19/12	1800
Relinquished by: (Signature)	Received by: (Signature)	10/22/12	0940
Relinquished by: (Signature)	Received by: (Signature)		

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

06/206 Revision

1210481

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** **Lab Vendor #**	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO. # SAP # 340061	INCIDENT # (ENV SERVICES) 97216640 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/19/12 PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION — LOG CODE:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100 — FAX: 314-429-0462 — Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA — State: IL — GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis — PHONE NO.: 314-743-4179 — E-MAIL: Elizabeth_Kunke@URSCorp.com — CONSULTANT PROJECT NAME#: Roxana Soil Vapor

L.Rothnow, S. Jansen, C. Kretzer, D. Mattingly, M. Mansker, C. Williams.

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
LA	VMP-43-20-101812	10/18/12	0850-0923	3039	-26	-7.5			X	X	
LA	VMP-43-30-101812	10/18/12	0943-1015	37392	-29.5	-7			X	X	

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only — Pressurized by: — Date: — Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date: 10/19/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/22/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

FedEx

Custody Seal Intact?
(Y) N None Temp N/A

06/2006 Revision

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11/6/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210481B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/22/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/20/12

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WORK ORDER #: 1210481B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/22/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/06/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-3-10-101812	Modified ASTM D-1946	10.0 "Hg	15 psi
02A	VMP-3-22-101812	Modified ASTM D-1946	9.5 "Hg	15 psi
03A	VMP-4-5-101812	Modified ASTM D-1946	10.5 "Hg	15 psi
04A	VMP-4-12-101812	Modified ASTM D-1946	10.0 "Hg	15 psi
05A	VMP-4-12-101812-Dup	Modified ASTM D-1946	10.5 "Hg	15 psi
06A	VMP-11-29-101612	Modified ASTM D-1946	9.5 "Hg	15 psi
07A	VMP-32-5-101812	Modified ASTM D-1946	11.0 "Hg	15 psi
08A	VMP-32-10-101812	Modified ASTM D-1946	9.5 "Hg	15 psi
09A	VMP-32-20-101812	Modified ASTM D-1946	8.0 "Hg	15 psi
10A	VMP-43-10-101612	Modified ASTM D-1946	11.0 "Hg	15 psi
11A	VMP-43-20-101812	Modified ASTM D-1946	7.0 "Hg	15 psi
12A	VMP-43-30-101812	Modified ASTM D-1946	8.0 "Hg	15 psi
13A	Lab Blank	Modified ASTM D-1946	NA	NA
13B	Lab Blank	Modified ASTM D-1946	NA	NA
13C	Lab Blank	Modified ASTM D-1946	NA	NA
13D	Lab Blank	Modified ASTM D-1946	NA	NA
14A	LCS	Modified ASTM D-1946	NA	NA
14AA	LCSD	Modified ASTM D-1946	NA	NA
14B	LCS	Modified ASTM D-1946	NA	NA
14BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/06/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210481B

Twelve 1 Liter Summa Canister samples were received on October 22, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-10-101812

Lab ID#: 1210481B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	79
Methane	0.00030	0.000056 J
Carbon Dioxide	0.030	0.76
Helium	0.15	0.024 J

Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	79
Methane	0.00030	0.000076 J
Carbon Dioxide	0.030	2.9
Helium	0.15	0.020 J

Client Sample ID: VMP-4-5-101812

Lab ID#: 1210481B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Methane	0.00031	0.00012 J
Carbon Dioxide	0.031	0.74
Helium	0.16	0.50

Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	78

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481B-04A

Methane	0.00030	0.00014 J
Carbon Dioxide	0.030	0.98
Helium	0.15	0.52

Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	78
Methane	0.00031	0.00014 J
Carbon Dioxide	0.031	1.0
Helium	0.16	0.59

Client Sample ID: VMP-11-29-101612

Lab ID#: 1210481B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	78
Methane	0.00030	0.000089 J
Carbon Dioxide	0.030	9.2
Helium	0.15	0.093 J

Client Sample ID: VMP-32-5-101812

Lab ID#: 1210481B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	18
Nitrogen	0.32	81
Methane	0.00032	0.000068 J
Carbon Dioxide	0.032	0.88
Helium	0.16	0.024 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	80
Methane	0.00030	0.000036 J
Carbon Dioxide	0.030	3.4
Helium	0.15	0.018 J

Client Sample ID: VMP-32-20-101812

Lab ID#: 1210481B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	79
Methane	0.00028	0.000027 J
Carbon Dioxide	0.028	4.8
Helium	0.14	0.013 J

Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	19
Nitrogen	0.32	80
Methane	0.00032	0.00011 J
Carbon Dioxide	0.032	0.55
Helium	0.16	0.071 J

Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Nitrogen	0.26	80

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481B-11A

Methane	0.00026	0.00080
Carbon Dioxide	0.026	1.9
Helium	0.13	0.054 J

Client Sample ID: VMP-43-30-101812

Lab ID#: 1210481B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	20
Nitrogen	0.37	79
Methane	0.00037	0.000047 J
Carbon Dioxide	0.037	1.3
Helium	0.18	0.016 J

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Client Sample ID: VMP-3-10-101812

Lab ID#: 1210481B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103114**	**Date of Collection:**	**10/18/12 2:52:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/31/12 06:37 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000056 J
Carbon Dioxide	0.030	0.76
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.024 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-3-22-101812

Lab ID#: 1210481B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103115**	**Date of Collection:**	**10/18/12 3:38:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/31/12 06:59 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000076 J
Carbon Dioxide	0.030	2.9
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.020 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-4-5-101812

Lab ID#: 1210481B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103116**	**Date of Collection:**	**10/18/12 10:50:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/31/12 07:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.00012 J
Carbon Dioxide	0.031	0.74
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	0.50

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-4-12-101812

Lab ID#: 1210481B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103117**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.03**	**Date of Analysis:**	**10/31/12 07:45 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	78
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00014 J
Carbon Dioxide	0.030	0.98
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.52

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-4-12-101812-Dup

Lab ID#: 1210481B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103118**	**Date of Collection:**	**10/18/12 10:39:00 A**
Dil. Factor:	**3.11**	**Date of Analysis:**	**10/31/12 08:07 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	78
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.00014 J
Carbon Dioxide	0.031	1.0
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	0.59

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-11-29-101612

Lab ID#: 1210481B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103006**	**Date of Collection:**	**10/16/12 2:21:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/30/12 07:10 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	78
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000089 J
Carbon Dioxide	0.030	9.2
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.093 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-32-5-101812

Lab ID#: 1210481B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103119**	**Date of Collection:**	**10/18/12 11:36:00 A**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/31/12 08:31 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	18
Nitrogen	0.32	81
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.000068 J
Carbon Dioxide	0.032	0.88
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Helium	0.16	0.024 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-32-10-101812

Lab ID#: 1210481B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103120**	**Date of Collection:**	**10/18/12 2:25:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**10/31/12 08:58 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	17
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000036 J
Carbon Dioxide	0.030	3.4
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-32-20-101812

Lab ID#: 1210481B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103121**	**Date of Collection:**	**10/18/12 3:24:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/31/12 09:20 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.28	16
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000027 J
Carbon Dioxide	0.028	4.8
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-43-10-101612

Lab ID#: 1210481B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103007**	**Date of Collection:**	**10/16/12 3:32:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**10/30/12 07:38 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.32	19
Nitrogen	0.32	80
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.00011 J
Carbon Dioxide	0.032	0.55
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Helium	0.16	0.071 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-43-20-101812

Lab ID#: 1210481B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103122**	**Date of Collection:**	**10/18/12 9:23:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**10/31/12 09:43 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	18
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00080
Carbon Dioxide	0.026	1.9
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.054 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: VMP-43-30-101812

Lab ID#: 1210481B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103123**	**Date of Collection:**	**10/18/12 10:15:00 A**
Dil. Factor:	**3.70**	**Date of Analysis:**	**10/31/12 10:11 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	20
Nitrogen	0.37	79
Carbon Monoxide	0.037	Not Detected
Methane	0.00037	0.000047 J
Carbon Dioxide	0.037	1.3
Ethane	0.0037	Not Detected
Ethene	0.0037	Not Detected
Helium	0.18	0.016 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210481B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 06:36 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210481B-13B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103003b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 05:48 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210481B-13C

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103113**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 06:10 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1210481B-13D

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103112b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 05:43 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210481B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103002a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 05:21 PM**	

Compound	%Recovery
Oxygen	97
Nitrogen	100
Carbon Monoxide	101
Methane	100
Carbon Dioxide	109
Ethane	102
Ethene	99
Helium	102

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210481B-14AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103027a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 02:58 PM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	100
Methane	91
Carbon Dioxide	110
Ethane	93
Ethene	89
Helium	102

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210481B-14B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103111**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 05:16 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	97
Methane	98
Carbon Dioxide	100
Ethane	99
Ethene	96
Helium	101

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210481B-14BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103135**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:55 AM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	95
Methane	98
Carbon Dioxide	100
Ethane	99
Ethene	96
Helium	102

Container Type: NA - Not Applicable

1210481

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 97216640
SAP #: 340051
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/19/12
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com
L.Rathnow, S. Jansen, C. Kretzer, D. Mattingly, M. Mansker, C. Williams,

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Conister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
CAA	VMP-3-10-101812	10/18/12	1419-1452	36525	-29.5	-10			x	x	
CBA	VMP-3-22-101812	10/18/12	1507-1538	37694	-29	-9.5			x	x	
CCA	VMP-4-5-101812	10/18/12	0920-1050	34087	-29	-10.5			x	x	
CHA	VMP-4-12-101812	10/18/12	1009-1039	31796	-28.5	-9.5			x	x	
CJA	VMP-4-12-101812-Dup	10/18/12	1009-1039	31782	-29	-10			x	x	
CDA	VMP-11-29-101612	10/16/12	1351-1421	34129	-29.5	-8.5			x	x	
CFA	VMP-32-5-101812	10/16/12	1105-1136	33644	-29.5	-10			x	x	
CGA	VMP-32-10-101812	10/16/12	1350-1425	34611	-29.5	-9			x	x	
CIA	VMP-32-20-101812	10/16/12	1448-1524	37322	-30	-8			x	x	
CEA	VMP-43-10-101612	10/16/12	1502-1532	8018	-29.5	-10			x	x	

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FEDEX	10/19/12	1800
Relinquished by: (Signature)	Received by: (Signature) [signature] ATL	Date: 10/22/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2006 Revision

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

1210481

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** **Lab Vendor #**	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshegian PO. #	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/19/12 PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION — LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA — State: IL — GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

ECF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis — PHONE NO: 314-743-4179 — E-MAIL: Elizabeth.Kunkel@URSCorp.com — CONSULTANT PROJECT NAME#: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L.Rathnow, S. Jansen, C. Kretzer, D. Mattingly, M. Mansker, C. Williams.

TELEPHONE: 314-426-0100 — FAX: 314-426-0462 — Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
11A	VMP-43-20-101812	10/18/12	0850-0923	3039	-28	-7.5			X	X					
22A	VMP-43-30-101812	10/18/12	0943-1015	37392	-29.5	-7			X	X					

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature) Cy Gillin	Received by: (Signature) FEDEX	Date: 10/19/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature) Kristi Holden ATL	Date: 10/22/12	Time: 0740
Relinquished by: (Signature)	Received by: (Signature) Fedex	Date:	Time:

05/2/08 Revision

Custody Seal Intact?
(Y) N None Temp NA

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210574A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/26/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-2-5-102412	VMP-2-8.5-102312
VMP-2-22-102312	VMP-12-5-102412
VMP-15-5-102512	VMP-24-5-101912

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, analytes were detected in the method blank. This issue is addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210574A-07A	TO-15	Carbon disulfide	0.30 ppbv / 0.95 µg/m^3
1210574A-07A	TO-15	Methylene chloride	0.10 ppbv / 0.36 µg/m^3
1210574A-07A	TO-15	Hexane	0.13 ppbv / 0.44 µg/m^3
1210574A-07A	TO-15	2,2,4-Trimethylpentane	0.073 ppbv / 0.34 µg/m^3
1210574A-07A	TO-15	1,2-Dichloroethane	0.060 ppbv / 0.24 µg/m^3
1210574A-07A	TO-15	Heptane	0.080 ppbv / 0.33 µg/m^3
1210574A-07A	TO-15	cis-1,3-Dichloropropene	0.073 ppbv / 0.33 µg/m^3
1210574A-07A	TO-15	Toluene	0.11 ppbv / 0.43 µg/m^3
1210574A-07A	TO-15	Chlorobenzene	0.30 ppbv / 1.4 µg/m^3
1210574A-07A	TO-15	m,p-Xylene	0.10 ppbv / 0.44 µg/m^3
1210574A-07A	TO-15	Propylbenzene	0.072 ppbv / 0.35 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210574A-07A	TO-15	1,2,4-Trimethylbenzene	0.11 ppbv / 0.56 µg/m^3
1210574A-07A	TO-15	1,3-Dichlorobenzene	0.14 ppbv / 0.85 µg/m^3
1210574A-07A	TO-15	1,4-Dichlorobenzene	0.16 ppbv / 0.99 µg/m^3
1210574A-07A	TO-15	1,2-Dichlorobenzene	0.11 ppbv / 0.65 µg/m^3
1210574A-07A	TO-15	Isopentane	0.63 ppbv / 1.8 µg/m^3
1210574B-07A	Natural gases	Oxygen	0.012%
1210574B-07A	Natural gases	Nitrogen	0.068%

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-2-5-102412	TO-15	Carbon disulfide	-	**U**
VMP-2-5-102412	TO-15	Methylene chloride	-	**U**
VMP-2-5-102412	TO-15	Chlorobenzene	-	**U**
VMP-2-5-102412	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-2-8.5-102312	TO-15	Chlorobenzene	-	**U**
VMP-2-8.5-102312	TO-15	Propylbenzene	-	**U**
VMP-2-22-102312	TO-15	Carbon disulfide	-	**U**
VMP-2-22-102312	TO-15	Methylene chloride	-	**U**
VMP-2-22-102312	TO-15	Toluene	-	**U**
VMP-2-22-102312	TO-15	Chlorobenzene	-	**U**
VMP-2-22-102312	TO-15	m,p-Xylene	-	**U**
VMP-12-5-102412	TO-15	Carbon disulfide	-	**U**
VMP-12-5-102412	TO-15	Chlorobenzene	-	**U**
VMP-12-5-102412	TO-15	Propylbenzene	-	**U**
VMP-15-5-102512	TO-15	Carbon disulfide	-	**U**
VMP-15-5-102512	TO-15	Chlorobenzene	-	**U**
VMP-15-5-102512	TO-15	Propylbenzene	-	**U**
VMP-15-5-102512	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-15-5-102512	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-24-5-101912	TO-15	Carbon disulfide	-	**U**
VMP-24-5-101912	TO-15	Chlorobenzene	-	**U**
VMP-24-5-101912	TO-15	m,p-Xylene	-	**U**
VMP-24.5-101912	TO-15	1,4-Dichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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11/8/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210574A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/26/12

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WORK ORDER #: 1210574A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/08/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-2-5-102412	Modified TO-15	8.8 "Hg	15 psi
02A	VMP-2-8.5-102312	Modified TO-15	9.2 "Hg	15 psi
03A	VMP-2-22-102312	Modified TO-15	9.2 "Hg	15 psi
04A	VMP-12-5-102412	Modified TO-15	9.8 "Hg	15 psi
05A	VMP-15-5-102512	Modified TO-15	9.6 "Hg	15 psi
06A	VMP-24-5-101912	Modified TO-15	8.6 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/08/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210574A

Six 1 Liter Summa Canister samples were received on October 26, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-2-5-102412

Lab ID#: 1210574A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	7.1	2.8 J
Freon 11	1.4	0.26 J	8.0	1.4 J
Ethanol	5.7	39	11	73
Acetone	14	32	34	77
2-Propanol	5.7	18	14	44
Carbon Disulfide	5.7	~~1.2 J~~ U	18	~~3.7 J~~ U
Methylene Chloride	14	~~0.54 J~~ U	50	~~1.8 J~~ U
Hexane	1.4	0.86 J	5.0	3.0 J
2-Butanone (Methyl Ethyl Ketone)	5.7	12	17	34
Tetrahydrofuran	1.4	1.3 J	4.2	3.8 J
2,2,4-Trimethylpentane	1.4	2.2	6.7	10
Benzene	1.4	54	4.6	170
Heptane	1.4	0.57 J	5.9	2.4 J
4-Methyl-2-pentanone	1.4	26	5.8	110
Toluene	1.4	3.5	5.4	13
Tetrachloroethene	1.4	0.75 J	9.7	5.1 J
Chlorobenzene	1.4	~~0.81 J~~ U	6.6	~~3.7 J~~ U
Ethyl Benzene	1.4	0.39 J	6.2	1.7 J
m,p-Xylene	1.4	1.0 J	6.2	4.4 J
o-Xylene	1.4	0.27 J	6.2	1.2 J
Cumene	1.4	11	7.0	52
1,2,4-Trimethylbenzene	1.4	~~0.41 J~~ U	7.0	~~2.0 J~~ U
Butane	5.7	4.9 J	14	12 J
Isopentane	5.7	6.6	17	19

Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.2	2.5 J
Freon 11	1.4	0.29 J	8.2	1.6 J
Ethanol	5.8	5.9	11	11
Acetone	14	22	34	52

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574A-02A

2-Propanol	5.8	1.3 J	14	3.2 J
Hexane	1.4	51	5.1	180
2-Butanone (Methyl Ethyl Ketone)	5.8	3.6 J	17	10 J
Cyclohexane	1.4	12	5.0	40
2,2,4-Trimethylpentane	1.4	27	6.8	130
Benzene	1.4	4.5	4.6	14
Heptane	1.4	18	6.0	75
4-Methyl-2-pentanone	1.4	1.9	6.0	7.7
Toluene	1.4	4.6	5.5	17
Tetrachloroethene	1.4	0.68 J	9.9	4.6 J
Chlorobenzene	1.4	~~0.74 J~~ U	6.7	~~3.4 J~~ U
Ethyl Benzene	1.4	1.3 J	6.3	5.6 J
m,p-Xylene	1.4	5.0	6.3	22
o-Xylene	1.4	1.7	6.3	7.4
Cumene	1.4	0.31 J	7.2	1.5 J
Propylbenzene	1.4	~~0.35 J~~ U	7.2	~~1.7 J~~ U
4-Ethyltoluene	1.4	1.2 J	7.2	5.9 J
1,3,5-Trimethylbenzene	1.4	0.40 J	7.2	2.0 J
1,2,4-Trimethylbenzene	1.4	0.93 J	7.2	4.6 J
Butane	5.8	250	14	580
Isopentane	5.8	250	17	750

Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	7.2	2.8 J
Freon 11	1.4	0.26 J	8.2	1.5 J
Ethanol	5.8	6.4	11	12
Acetone	14	23	34	55
2-Propanol	5.8	0.81 J	14	2.0 J
Carbon Disulfide	5.8	~~0.89 J~~ U	18	~~2.8 J~~ U
Methylene Chloride	14	~~0.34 J~~ U	50	~~1.2 J~~ U
Hexane	1.4	10	5.1	37
2-Butanone (Methyl Ethyl Ketone)	5.8	2.0 J	17	6.0 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574A-03A

1,1,1-Trichloroethane	1.4	0.11 J	7.9	0.61 J
Cyclohexane	1.4	3.0	5.0	10
2,2,4-Trimethylpentane	1.4	6.6	6.8	31
Benzene	1.4	2.0	4.6	6.6
Heptane	1.4	3.5	6.0	14
4-Methyl-2-pentanone	1.4	0.73 J	6.0	3.0 J
Toluene	1.4	~~0.37 J~~ U	5.5	~~1.4 J~~ U
Tetrachloroethene	1.4	0.98 J	9.9	6.6 J
Chlorobenzene	1.4	~~0.72 J~~ U	6.7	~~3.3 J~~ U
m,p-Xylene	1.4	~~0.44 J~~ U	6.3	~~1.9 J~~ U
Butane	5.8	33	14	79
Isopentane	5.8	43	17	130

Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.49 J	7.4	2.4 J
Freon 11	1.5	0.26 J	8.4	1.5 J
Ethanol	6.0	5.3 J	11	10 J
Acetone	15	9.7 J	36	23 J
2-Propanol	6.0	2.6 J	15	6.3 J
Carbon Disulfide	6.0	~~0.81 J~~ U	19	~~2.5 J~~ U
Hexane	1.5	0.75 J	5.3	2.6 J
2-Butanone (Methyl Ethyl Ketone)	6.0	1.8 J	18	5.4 J
Chloroform	1.5	0.29 J	7.3	1.4 J
2,2,4-Trimethylpentane	1.5	1.2 J	7.0	5.8 J
Benzene	1.5	8.0	4.8	25
4-Methyl-2-pentanone	1.5	2.2	6.1	9.0
Toluene	1.5	4.4	5.6	16
Tetrachloroethene	1.5	0.54 J	10	3.6 J
Chlorobenzene	1.5	~~0.70 J~~ U	6.9	~~3.2 J~~ U
Ethyl Benzene	1.5	0.38 J	6.5	1.6 J
m,p-Xylene	1.5	2.7	6.5	12
o-Xylene	1.5	1.2 J	6.5	5.4 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574A-04A

Cumene	1.5	0.62 J	7.4	3.1 J
Propylbenzene	1.5	~~0.24 J~~ U	7.4	~~1.2 J~~ U
1,3,5-Trimethylbenzene	1.5	0.29 J	7.4	1.4 J
1,2,4-Trimethylbenzene	1.5	0.62 J	7.4	3.0 J
Isopentane	6.0	2.7 J	18	8.0 J

Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.48 J	7.3	2.4 J
Ethanol	5.9	20	11	38
Acetone	15	11 J	35	26 J
2-Propanol	5.9	10	14	26
Carbon Disulfide	5.9	~~1.0 J~~ U	18	~~3.3 J~~ U
Methylene Chloride	15	1.2 J	52	4.2 J
Hexane	1.5	1.9	5.2	6.6
2-Butanone (Methyl Ethyl Ketone)	5.9	5.1 J	18	15 J
Chloroform	1.5	0.41 J	7.2	2.0 J
Cyclohexane	1.5	0.52 J	5.1	1.8 J
2,2,4-Trimethylpentane	1.5	4.0	6.9	19
Benzene	1.5	4.1	4.7	13
Heptane	1.5	0.81 J	6.1	3.3 J
4-Methyl-2-pentanone	1.5	27	6.1	110
Toluene	1.5	3.4	5.6	13
Tetrachloroethene	1.5	0.76 J	10	5.1 J
Chlorobenzene	1.5	~~0.82 J~~ U	6.8	~~3.8 J~~ U
Ethyl Benzene	1.5	0.44 J	6.4	1.9 J
m,p-Xylene	1.5	0.94 J	6.4	4.1 J
o-Xylene	1.5	0.35 J	6.4	1.5 J
Cumene	1.5	10	7.3	52
Propylbenzene	1.5	~~0.21 J~~ U	7.3	~~1.0 J~~ U
4-Ethyltoluene	1.5	0.50 J	7.3	2.5 J
1,2,4-Trimethylbenzene	1.5	~~0.42 J~~ U	7.3	~~2.1 J~~ U
1,4-Dichlorobenzene	1.5	~~0.38 J~~ U	8.9	~~2.3 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574A-05A

alpha-Chlorotoluene	1.5	0.26 J	7.7	1.3 J
Butane	5.9	77	14	180
Isopentane	5.9	34	18	100

Client Sample ID: VMP-24-5-101912

Lab ID#: 1210574A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.0	2.5 J
Ethanol	5.7	5.6 J	11	10 J
Acetone	14	10 J	34	25 J
2-Propanol	5.7	1.2 J	14	3.0 J
Carbon Disulfide	5.7	~~0.87 J~~ U	18	~~2.7 J~~ U
Hexane	1.4	0.94 J	5.0	3.3 J
Cyclohexane	1.4	0.44 J	4.9	1.5 J
2,2,4-Trimethylpentane	1.4	2.0	6.6	9.6
Benzene	1.4	25	4.5	81
Toluene	1.4	0.60 J	5.3	2.3 J
Tetrachloroethene	1.4	0.59 J	9.6	4.0 J
Chlorobenzene	1.4	~~1.0 J~~ U	6.5	~~4.7 J~~ U
Ethyl Benzene	1.4	0.28 J	6.1	1.2 J
m,p-Xylene	1.4	~~0.48 J~~ U	6.1	~~2.1 J~~ U
1,4-Dichlorobenzene	1.4	~~0.25 J~~ U	8.5	~~1.5 J~~ U
Butane	5.7	3.6 J	13	8.6 J
Isopentane	5.7	5.2 J	17	15 J

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Client Sample ID: VMP-2-5-102412

Lab ID#: 1210574A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103022**	**Date of Collection:**	**10/24/12 2:23:00 PM**
Dil. Factor:	**2.86**	**Date of Analysis:**	**10/30/12 09:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	7.1	2.8 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.7	Not Detected	15	Not Detected
Freon 11	1.4	0.26 J	8.0	1.4 J
Ethanol	5.7	39	11	73
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	32	34	77
2-Propanol	5.7	18	14	44
Carbon Disulfide	5.7	~~1.2 J~~ U	18	~~3.7 J~~ U
3-Chloropropene	5.7	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.54 J~~ U	50	~~1.8 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.86 J	5.0	3.0 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.7	12	17	34
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	1.3 J	4.2	3.8 J
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.8	Not Detected
Cyclohexane	1.4	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.0	Not Detected
2,2,4-Trimethylpentane	1.4	2.2	6.7	10
Benzene	1.4	54	4.6	170
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.57 J	5.9	2.4 J
Trichloroethene	1.4	Not Detected	7.7	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.6	Not Detected
1,4-Dioxane	5.7	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.6	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.5	Not Detected
4-Methyl-2-pentanone	1.4	26	5.8	110
Toluene	1.4	3.5	5.4	13
trans-1,3-Dichloropropene	1.4	Not Detected	6.5	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.8	Not Detected
Tetrachloroethene	1.4	0.75 J	9.7	5.1 J
2-Hexanone	5.7	Not Detected	23	Not Detected

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Client Sample ID: VMP-2-5-102412

Lab ID#: 1210574A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103022**	**Date of Collection:**	**10/24/12 2:23:00 PM**
Dil. Factor:	**2.86**	**Date of Analysis:**	**10/30/12 09:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~0.81 J~~ U	6.6	~~3.7 J~~ U
Ethyl Benzene	1.4	0.39 J	6.2	1.7 J
m,p-Xylene	1.4	1.0 J	6.2	4.4 J
o-Xylene	1.4	0.27 J	6.2	1.2 J
Styrene	1.4	Not Detected	6.1	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	11	7.0	52
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.8	Not Detected
Propylbenzene	1.4	Not Detected	7.0	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.41 J~~ U	7.0	~~2.0 J~~ U
1,3-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.4	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.6	Not Detected
1,2,4-Trichlorobenzene	5.7	Not Detected	42	Not Detected
Hexachlorobutadiene	5.7	Not Detected	61	Not Detected
Butane	5.7	4.9 J	14	12 J
Isopentane	5.7	6.6	17	19

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103023**	**Date of Collection: 10/23/12 2:58:00 PM**	
Dil. Factor:	**2.91**	**Date of Analysis: 10/30/12 09:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.51 J	7.2	2.5 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.29 J	8.2	1.6 J
Ethanol	5.8	5.9	11	11
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Acetone	14	22	34	52
2-Propanol	5.8	1.3 J	14	3.2 J
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	50	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Hexane	1.4	51	5.1	180
1,1-Dichloroethane	1.4	Not Detected	5.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	3.6 J	17	10 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.1	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	12	5.0	40
Carbon Tetrachloride	1.4	Not Detected	9.2	Not Detected
2,2,4-Trimethylpentane	1.4	27	6.8	130
Benzene	1.4	4.5	4.6	14
1,2-Dichloroethane	1.4	Not Detected	5.9	Not Detected
Heptane	1.4	18	6.0	75
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	1.9	6.0	7.7
Toluene	1.4	4.6	5.5	17
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	0.68 J	9.9	4.6 J
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103023**	**Date of Collection: 10/23/12 2:58:00 PM**	
Dil. Factor:	**2.91**	**Date of Analysis: 10/30/12 09:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~0.74 J~~ U	6.7	~~3.4 J~~ U
Ethyl Benzene	1.4	1.3 J	6.3	5.6 J
m,p-Xylene	1.4	5.0	6.3	22
o-Xylene	1.4	1.7	6.3	7.4
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	0.31 J	7.2	1.5 J
1,1,2,2-Tetrachloroethane	1.4	Not Detected	10	Not Detected
Propylbenzene	1.4	~~0.35 J~~ U	7.2	~~1.7 J~~ U
4-Ethyltoluene	1.4	1.2 J	7.2	5.9 J
1,3,5-Trimethylbenzene	1.4	0.40 J	7.2	2.0 J
1,2,4-Trimethylbenzene	1.4	0.93 J	7.2	4.6 J
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	250	14	580
Isopentane	5.8	250	17	750

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103024**	**Date of Collection:**	**10/23/12 3:55:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**10/30/12 10:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.57 J	7.2	2.8 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.26 J	8.2	1.5 J
Ethanol	5.8	6.4	11	12
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Acetone	14	23	34	55
2-Propanol	5.8	0.81 J	14	2.0 J
Carbon Disulfide	5.8	~~0.89 J~~ u	18	~~2.8 J~~ u
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	~~0.34 J~~ u	50	~~1.2 J~~ u
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Hexane	1.4	10	5.1	37
1,1-Dichloroethane	1.4	Not Detected	5.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	2.0 J	17	6.0 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.1	Not Detected
1,1,1-Trichloroethane	1.4	0.11 J	7.9	0.61 J
Cyclohexane	1.4	3.0	5.0	10
Carbon Tetrachloride	1.4	Not Detected	9.2	Not Detected
2,2,4-Trimethylpentane	1.4	6.6	6.8	31
Benzene	1.4	2.0	4.6	6.6
1,2-Dichloroethane	1.4	Not Detected	5.9	Not Detected
Heptane	1.4	3.5	6.0	14
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	0.73 J	6.0	3.0 J
Toluene	1.4	~~0.37 J~~ u	5.5	~~1.4 J~~ u
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	0.98 J	9.9	6.6 J
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103024**	**Date of Collection: 10/23/12 3:55:00 PM**	
Dil. Factor:	**2.91**	**Date of Analysis: 10/30/12 10:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	0.72 J	6.7	3.3 J
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	0.44 J	6.3	1.9 J
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.2	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	10	Not Detected
Propylbenzene	1.4	Not Detected	7.2	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.2	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.2	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.2	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	33	14	79
Isopentane	5.8	43	17	130

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103025**	**Date of Collection:**	**10/24/12 10:02:00 A**
Dil. Factor:	**3.00**	**Date of Analysis:**	**10/30/12 10:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.49 J	7.4	2.4 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	6.0	Not Detected	16	Not Detected
Freon 11	1.5	0.26 J	8.4	1.5 J
Ethanol	6.0	5.3 J	11	10 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	9.7 J	36	23 J
2-Propanol	6.0	2.6 J	15	6.3 J
Carbon Disulfide	6.0	~~0.81 J~~ 4	19	~~2.5 J~~ 4
3-Chloropropene	6.0	Not Detected	19	Not Detected
Methylene Chloride	15	Not Detected	52	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.75 J	5.3	2.6 J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.0	1.8 J	18	5.4 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	0.29 J	7.3	1.4 J
1,1,1-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Cyclohexane	1.5	Not Detected	5.2	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.4	Not Detected
2,2,4-Trimethylpentane	1.5	1.2 J	7.0	5.8 J
Benzene	1.5	8.0	4.8	25
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	6.0	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
4-Methyl-2-pentanone	1.5	2.2	6.1	9.0
Toluene	1.5	4.4	5.6	16
trans-1,3-Dichloropropene	1.5	Not Detected	6.8	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.2	Not Detected
Tetrachloroethene	1.5	0.54 J	10	3.6 J
2-Hexanone	6.0	Not Detected	24	Not Detected

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Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103025**	**Date of Collection: 10/24/12 10:02:00 A**	
Dil. Factor:	**3.00**	**Date of Analysis: 10/30/12 10:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	12	Not Detected
Chlorobenzene	1.5	~~0.70 J~~ u	6.9	~~3.2 J~~ u
Ethyl Benzene	1.5	0.38 J	6.5	1.6 J
m,p-Xylene	1.5	2.7	6.5	12
o-Xylene	1.5	1.2 J	6.5	5.4 J
Styrene	1.5	Not Detected	6.4	Not Detected
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	0.62 J	7.4	3.1 J
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.24 J~~ u	7.4	~~1.2 J~~ u
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	0.29 J	7.4	1.4 J
1,2,4-Trimethylbenzene	1.5	0.62 J	7.4	3.0 J
1,3-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.8	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	9.0	Not Detected
1,2,4-Trichlorobenzene	6.0	Not Detected	44	Not Detected
Hexachlorobutadiene	6.0	Not Detected	64	Not Detected
Butane	6.0	Not Detected	14	Not Detected
Isopentane	6.0	2.7 J	18	8.0 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103026**	**Date of Collection:**	**10/25/12 11:00:00 A**
Dil. Factor:	**2.97**	**Date of Analysis:**	**10/31/12 07:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.48 J	7.3	2.4 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	20	11	38
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	11 J	35	26 J
2-Propanol	5.9	10	14	26
Carbon Disulfide	5.9	~~1.0 J~~ U	18	~~3.3 J~~ U
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	1.2 J	52	4.2 J
Methyl tert-butyl ether	1.5	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	1.9	5.2	6.6
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	5.1 J	18	15 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	0.41 J	7.2	2.0 J
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	0.52 J	5.1	1.8 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	4.0	6.9	19
Benzene	1.5	4.1	4.7	13
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	0.81 J	6.1	3.3 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	27	6.1	110
Toluene	1.5	3.4	5.6	13
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	0.76 J	10	5.1 J
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103026**	**Date of Collection:**	**10/25/12 11:00:00 A**
Dil. Factor:	**2.97**	**Date of Analysis:**	**10/31/12 07:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	~~0.82 J~~ U	6.8	~~3.8 J~~ U
Ethyl Benzene	1.5	0.44 J	6.4	1.9 J
m,p-Xylene	1.5	0.94 J	6.4	4.1 J
o-Xylene	1.5	0.35 J	6.4	1.5 J
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	10	7.3	52
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.21 J~~ U	7.3	~~1.0 J~~ U
4-Ethyltoluene	1.5	0.50 J	7.3	2.5 J
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	~~0.42 J~~ U	7.3	~~2.1 J~~ U
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	~~0.38 J~~ U	8.9	~~2.3 J~~ U
alpha-Chlorotoluene	1.5	0.26 J	7.7	1.3 J
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	77	14	180
Isopentane	5.9	34	18	100

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: VMP-24-5-101912

Lab ID#: 1210574A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103027**	**Date of Collection:**	**10/19/12 2:20:00 PM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/31/12 08:01 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.50 J	7.0	2.5 J
Freon 114	1.4	Not Detected	9.9	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.7	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.0	Not Detected
Ethanol	5.7	5.6 J	11	10 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	10 J	34	25 J
2-Propanol	5.7	1.2 J	14	3.0 J
Carbon Disulfide	5.7	~~0.87 J~~ 4	18	~~2.7 J~~ 4
3-Chloropropene	5.7	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	49	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.94 J	5.0	3.3 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.7	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	0.44 J	4.9	1.5 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	2.0	6.6	9.6
Benzene	1.4	25	4.5	81
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.7	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.5	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	0.60 J	5.3	2.3 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	0.59 J	9.6	4.0 J
2-Hexanone	5.7	Not Detected	23	Not Detected

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Client Sample ID: VMP-24-5-101912

Lab ID#: 1210574A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103027**	**Date of Collection:**	**10/19/12 2:20:00 PM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**10/31/12 08:01 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~1.0 J~~ U	6.5	~~4.7 J~~ U
Ethyl Benzene	1.4	0.28 J	6.1	1.2 J
m,p-Xylene	1.4	~~0.48 J~~ U	6.1	~~2.1 J~~ U
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	Not Detected	7.0	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	7.0	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	~~0.25 J~~ U	8.5	~~1.5 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.7	Not Detected	42	Not Detected
Hexachlorobutadiene	5.7	Not Detected	60	Not Detected
Butane	5.7	3.6 J	13	8.6 J
Isopentane	5.7	5.2 J	17	15 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	83	70-130

Client Sample ID: Lab Blank

Lab ID#: 1210574A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103008c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 12:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.30 J	6.2	0.95 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.10 J	17	0.36 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	0.13 J	1.8	0.44 J
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	0.073 J	2.3	0.34 J
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.060 J	2.0	0.24 J
Heptane	0.50	0.080 J	2.0	0.33 J
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	0.073 J	2.3	0.33 J
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.11 J	1.9	0.43 J
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210574A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103008c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 12:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	0.30 J	2.3	1.4 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.10 J	2.2	0.44 J
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.072 J	2.4	0.35 J
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	0.11 J	2.4	0.56 J
1,3-Dichlorobenzene	0.50	0.14 J	3.0	0.85 J
1,4-Dichlorobenzene	0.50	0.16 J	3.0	0.99 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	0.11 J	3.0	0.65 J
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	0.63 J	5.9	1.8 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: CCV

Lab ID#: 1210574A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 09:49 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	91
Chloromethane	101
Vinyl Chloride	94
1,3-Butadiene	82
Bromomethane	92
Chloroethane	97
Freon 11	96
Ethanol	85
Freon 113	88
1,1-Dichloroethene	86
Acetone	92
2-Propanol	86
Carbon Disulfide	96
3-Chloropropene	90
Methylene Chloride	91
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	94
Hexane	89
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	93
Tetrahydrofuran	90
Chloroform	98
1,1,1-Trichloroethane	91
Cyclohexane	97
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	88
Benzene	110
1,2-Dichloroethane	104
Heptane	110
Trichloroethene	103
1,2-Dichloropropane	104
1,4-Dioxane	96
Bromodichloromethane	104
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	84
Toluene	96
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	111
Tetrachloroethene	98
2-Hexanone	96

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Client Sample ID: CCV

Lab ID#: 1210574A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 09:49 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	106
Chlorobenzene	90
Ethyl Benzene	100
m,p-Xylene	96
o-Xylene	96
Styrene	89
Bromoform	93
Cumene	97
1,1,2,2-Tetrachloroethane	108
Propylbenzene	105
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	72
Hexachlorobutadiene	78
Butane	89
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: LCS

Lab ID#: 1210574A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 10:21 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	97
Chloromethane	95
Vinyl Chloride	100
1,3-Butadiene	87
Bromomethane	94
Chloroethane	101
Freon 11	99
Ethanol	77
Freon 113	95
1,1-Dichloroethene	98
Acetone	104
2-Propanol	82
Carbon Disulfide	124
3-Chloropropene	109
Methylene Chloride	93
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	112
Hexane	90
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	97
Tetrahydrofuran	88
Chloroform	102
1,1,1-Trichloroethane	95
Cyclohexane	101
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	89
Benzene	109
1,2-Dichloroethane	104
Heptane	108
Trichloroethene	106
1,2-Dichloropropane	105
1,4-Dioxane	88
Bromodichloromethane	103
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	77
Toluene	96
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	114
Tetrachloroethene	98
2-Hexanone	85

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Client Sample ID: LCS

Lab ID#: 1210574A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 10:21 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	108
Chlorobenzene	93
Ethyl Benzene	101
m,p-Xylene	99
o-Xylene	97
Styrene	82
Bromoform	92
Cumene	97
1,1,2,2-Tetrachloroethane	110
Propylbenzene	106
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	79
Butane	95
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: LCSD

Lab ID#: 1210574A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 10:45 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	96
Chloromethane	94
Vinyl Chloride	102
1,3-Butadiene	88
Bromomethane	98
Chloroethane	103
Freon 11	99
Ethanol	81
Freon 113	96
1,1-Dichloroethene	101
Acetone	107
2-Propanol	84
Carbon Disulfide	127
3-Chloropropene	114
Methylene Chloride	95
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	109
Hexane	93
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	99
Tetrahydrofuran	90
Chloroform	104
1,1,1-Trichloroethane	95
Cyclohexane	103
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	89
Benzene	112
1,2-Dichloroethane	107
Heptane	109
Trichloroethene	107
1,2-Dichloropropane	107
1,4-Dioxane	93
Bromodichloromethane	106
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	80
Toluene	99
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	116
Tetrachloroethene	100
2-Hexanone	87

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Client Sample ID: LCSD

Lab ID#: 1210574A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j103004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/12 10:45 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	110
Chlorobenzene	94
Ethyl Benzene	101
m,p-Xylene	102
o-Xylene	99
Styrene	85
Bromoform	94
Cumene	101
1,1,2,2-Tetrachloroethane	114
Propylbenzene	109
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	82
Butane	96
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	87	70-130

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SEMCH ☐ CONSULTANT ☐ UBMS ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO. #
INCIDENT # (ENV SERVICES): 9 7 2 1 5 5 4 9
SAP #: 3 4 0 9 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/25/12
PAGE: 1 of 1

COMPANY NAME: URS CORPORATION
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
E-MAIL: Robert.Mooshegian@urs.com

SITE ADDRESS: 900 SOUTH CENTRAL AVE -- ROXANA
STATE: IL
PROJECT MANAGER: Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
SAMPLERS: L.Rathbun, S. Jansen, C. Kretzer, D. Mattingly, M. Manaker, C. Williams, M. Currier

TURNAROUND TIME (CALENDAR DATE): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
	VMP-2-5-102412	10/24/12	1359-1423	9481	-28.5	-9			X	X	
	VMP-2-8.5-102312	10/23/12	1427-1456	34128	-29	-9			X	X	
	VMP-2-22-102312	10/23/12	1522-1555	35606	-29	-9.5			X	X	
	VMP-12-5-102412	10/24/12	0932-1002	33894	-30	-10			X	X	
	VMP-15-5-102512	10/25/12	1033-1100	36471	-29	-9.5			X	X	
	VMP-24-5-101912	10/19/12	1349-1420	23838	-29.5	-9.5			X	X	

10/25/12

Relinquished by: (Signature) — Received by: (Signature) FEDEX — Date: 10/25/12 — Time: 1700
Relinquished by: (Signature) — Received by: (Signature) BrSchaffer ATL 10/26/12 0940 — Date: — Time:
Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

1210574

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11/8/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210574B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/26/12

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WORK ORDER #: 1210574B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/08/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-2-5-102412	Modified ASTM D-1946	8.8 "Hg	15 psi
02A	VMP-2-8.5-102312	Modified ASTM D-1946	9.2 "Hg	15 psi
03A	VMP-2-22-102312	Modified ASTM D-1946	9.2 "Hg	15 psi
04A	VMP-12-5-102412	Modified ASTM D-1946	9.8 "Hg	15 psi
05A	VMP-15-5-102512	Modified ASTM D-1946	9.6 "Hg	15 psi
06A	VMP-24-5-101912	Modified ASTM D-1946	8.6 "Hg	15 psi
07A	Lab Blank	Modified ASTM D-1946	NA	NA
07B	Lab Blank	Modified ASTM D-1946	NA	NA
08A	LCS	Modified ASTM D-1946	NA	NA
08AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/08/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210574B

Six 1 Liter Summa Canister samples were received on October 26, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-2-5-102412

Lab ID#: 1210574B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	81
Methane	0.00029	0.00011 J
Carbon Dioxide	0.029	0.20
Helium	0.14	0.054 J

Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	80
Methane	0.00029	0.000092 J
Carbon Dioxide	0.029	0.62
Helium	0.14	0.039 J

Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Methane	0.00029	0.000042 J
Carbon Dioxide	0.029	3.7
Helium	0.14	0.052 J

Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	19
Nitrogen	0.30	81

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574B-04A

Methane	0.00030	0.00010 J
Carbon Dioxide	0.030	0.14
Helium	0.15	0.028 J

Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	10
Nitrogen	0.30	82
Methane	0.00030	0.000053 J
Carbon Dioxide	0.030	8.5

Client Sample ID: VMP-24-5-101912

Lab ID#: 1210574B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	80
Methane	0.00028	0.00012 J
Carbon Dioxide	0.028	3.5
Helium	0.14	0.019 J

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Client Sample ID: VMP-2-5-102412

Lab ID#: 1210574B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110216**	**Date of Collection:**	**10/24/12 2:23:00 PM**
Dil. Factor:	**2.86**	**Date of Analysis:**	**11/2/12 12:41 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00011 J
Carbon Dioxide	0.029	0.20
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.054 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-2-8.5-102312

Lab ID#: 1210574B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110217**	**Date of Collection:**	**10/23/12 2:58:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**11/2/12 01:03 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000092 J
Carbon Dioxide	0.029	0.62
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.039 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-2-22-102312

Lab ID#: 1210574B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110218**	**Date of Collection:**	**10/23/12 3:55:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**11/2/12 01:29 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	16
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000042 J
Carbon Dioxide	0.029	3.7
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.052 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-12-5-102412

Lab ID#: 1210574B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110219**	**Date of Collection:**	**10/24/12 10:02:00 A**
Dil. Factor:	**3.00**	**Date of Analysis:**	**11/2/12 01:51 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	19
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00010 J
Carbon Dioxide	0.030	0.14
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-15-5-102512

Lab ID#: 1210574B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110220**	**Date of Collection:**	**10/25/12 11:00:00 A**
Dil. Factor:	**2.97**	**Date of Analysis:**	**11/2/12 02:19 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	10
Nitrogen	0.30	82
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000053 J
Carbon Dioxide	0.030	8.5
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-24-5-101912

Lab ID#: 1210574B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110221**	**Date of Collection:**	**10/19/12 2:20:00 PM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**11/2/12 02:50 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	17
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00012 J
Carbon Dioxide	0.028	3.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210574B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110210a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/12 09:13 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.012 J
Nitrogen	0.10	0.068 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210574B-07B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110208b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/12 08:23 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210574B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/12 06:13 AM**	

Compound	%Recovery
Oxygen	96
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	101
Ethane	99
Ethene	97
Helium	109

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210574B-08AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/12 06:41 AM**	

Compound	%Recovery
Oxygen	95
Nitrogen	100
Carbon Monoxide	98
Methane	100
Carbon Dioxide	101
Ethane	101
Ethene	98
Helium	109

Container Type: NA - Not Applicable

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV SERVICES): 9 7 2 1 6 5 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/25/12

PAGE: 1 of 1

PO #:

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

EMAIL: Elizabeth.Kunkel@URSCorp.com

CONSULTANT PROJECT NAME/#: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L.Rathnow, S. Jansen, C. Kretzer D. Mattingly, M. Mansker C. Williams, M. Curner

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
OWX	VMP-2-5-102412	10/24/12	1353-1423	9461	-29.5	-9			X	X	
CWX	VMP-2-8.5-102312	10/23/12	1427-1456	34128	-29	-9			X	X	
SWX	VMP-2-22-102312	10/23/12	1522-1555	35606	-29	-9.5			X	X	
CWX	VMP-12-5-102412	10/24/12	0932-1002	33364	-30	-10			X	X	
CWX	VMP-15-5-102512	10/25/12	1030-1100	36471	-29	-9.5			X	X	
WX	VMP-24-5-101912	10/19/12	1349-1420	23838	-29.5	-9.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	10/25/12	1700
	Received by: (Signature) BrShutaba AIC 10/26/12 0940		

05/2010 Revision

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

1210574

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210577AR1,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-1-23.5-102412	VMP-4-39-101812
VMP-4-39-101812-Dup	VMP-12-39-102412
VMP-16-5-102512	VMP-16-13.5-102512
VMP-16-19-102512	VMP-16-31-102512

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-16-5-102512 was diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. Additionally, 2,2,4-trimethylpentane exceeded the calibration range of the instrument in sample VMP-16-5-102512. The laboratory report was revised on December 11, 2012 to report sample results in ppbv and µg/m^3 which due to laboratory error was originally reported in ppbv and ppmv. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210577AR1-09A	TO-15	Ethanol	2.6 ppbv / 4.9 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210577AR1-09A	TO-15	2,2,4-Trimethylpentane	0.52 ppbv / 2.4 µg/m^3

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-4-39-101812	VMP-4-39-101812-Dup

Were field duplicate sample RPDs within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Were additional qualifications applied?

Yes, 2,2,4-trimethylpentane exceeded the calibration range of the instrument in sample VMP-16-5-102512. Data qualification due to 2,2,4-trimethylpentane exceeding calibration range is summarized in the following table.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-16-5-102512	TO-15	2,2,4-Trimethylpentane	**J**	Professional Judgment

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12/11/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210577AR1

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210577AR1

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/08/2012		
DATE REISSUED:	12/11/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-23.5-102412	Modified TO-15	9.0 "Hg	15 psi
02A	VMP-4-39-101812	Modified TO-15	10.0 "Hg	15 psi
03A	VMP-4-39-101812-Dup	Modified TO-15	8.0 "Hg	15 psi
04A	VMP-12-39-102412	Modified TO-15	11.0 "Hg	15 psi
05A	VMP-16-5-102512	Modified TO-15	8.5 "Hg	15 psi
05B	VMP-16-5-102512	Modified TO-15	8.5 "Hg	15 psi
06A	VMP-16-13.5-102512	Modified TO-15	8.5 "Hg	15 psi
07A	VMP-16-19-102512	Modified TO-15	7.0 "Hg	15 psi
08A	VMP-16-31-102512	Modified TO-15	11.5 "Hg	15 psi
09A	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/11/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210577AR1

Eight 1 Liter Summa Canister samples were received on October 26, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Due to high-level target compounds, sample VMP-16-5-102512 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Dilution was performed on samples VMP-1-23.5-102412, VMP-4-39-101812, VMP-4-39-101812-Dup, VMP-12-39-102412, VMP-16-5-102512, VMP-16-5-102512, VMP-16-13.5-102512, VMP-16-19-102512 and VMP-16-31-102512 due to the presence of high level target species.

2,2,4-Trimethylpentane exceeded the instrument's calibration range for sample VMP-16-5-102512 and was flagged accordingly.

THE WORKORDER WAS REISSUED ON 12/11/12 TO REPORT RESULTS IN PPBV AND UG/M3 DUE TO LABORATORY ERROR.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-1-23.5-102412

Lab ID#: 1210577AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	12000	27000	42000	96000
Cyclohexane	12000	6800 J	41000	23000 J
2,2,4-Trimethylpentane	12000	38000	56000	180000
Toluene	12000	3200 J	45000	12000 J
m,p-Xylene	12000	1600 J	52000	7000 J
Butane	48000	1700000	110000	4200000
Isopentane	48000	700000	140000	2100000

Client Sample ID: VMP-4-39-101812

Lab ID#: 1210577AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	19000	610000	67000	2200000
Cyclohexane	19000	200000	65000	710000
2,2,4-Trimethylpentane	19000	330000	88000	1500000
Benzene	19000	8900 J	60000	28000 J
Heptane	19000	330000	78000	1400000
Toluene	19000	130000	71000	480000
Ethyl Benzene	19000	26000	82000	110000
m,p-Xylene	19000	44000	82000	190000
o-Xylene	19000	10000 J	82000	44000 J
Butane	76000	1600000	180000	3900000
Isopentane	76000	2200000	220000	6400000

Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	17000	620000	61000	2200000
Cyclohexane	17000	200000	59000	670000
2,2,4-Trimethylpentane	17000	330000	80000	1500000
Benzene	17000	8100 J	55000	26000 J
Heptane	17000	330000	71000	1400000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577AR1-03A

Toluene	17000	130000	65000	480000
Ethyl Benzene	17000	24000	75000	100000
m,p-Xylene	17000	43000	75000	190000
o-Xylene	17000	11000 J	75000	47000 J
Butane	69000	1600000	160000	3900000
Isopentane	69000	2200000	200000	6400000

Client Sample ID: VMP-12-39-102412

Lab ID#: 1210577AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	5300	1700 J	16000	5300 J
Methylene Chloride	5300	2000 J	18000	7100 J
Methyl tert-butyl ether	5300	600 J	19000	2200 J
Hexane	5300	16000	19000	58000
Cyclohexane	5300	19000	18000	66000
2,2,4-Trimethylpentane	5300	160000	25000	770000
Benzene	5300	370000	17000	1200000
Toluene	5300	3600 J	20000	14000 J
Ethyl Benzene	5300	1100 J	23000	4600 J
m,p-Xylene	5300	2300 J	23000	10000 J
o-Xylene	5300	490 J	23000	2100 J
Butane	21000	39000	50000	93000
Isopentane	21000	670000	62000	2000000

Client Sample ID: VMP-16-5-102512 *Use these results only. All other data was reported from the 141x dilution analysis.

Lab ID#: 1210577AR1-05A

DF = 235

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	4700	760 J	11000	1800 J
Carbon Disulfide	1200	370 J	3600	1200 J
Cyclohexane	1200	1300	4000	4500
* 2,2,4-Trimethylpentane	1200	210000	5500	1000000 J
Benzene	1200	200 J	3800	650 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577AR1-05A

Toluene	1200	160 J	4400	610 J
Butane	4700	1600 J	11000	3700 J
Isopentane	4700	36000	14000	100000

Client Sample ID: VMP-16-5-102512 *Do not use this data. Use all other data.

Lab ID#: 1210577AR1-05B

DF = 141

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	700	1400	2400	4900
2,2,4-Trimethylpentane	700	240000 E	3300	1100000 E
Benzene	700	200 J	2200	630 J
Toluene	700	47 J	2600	180 J
Butane	2800	1700 J	6700	4000 J
Isopentane	2800	39000	8300	120000

Client Sample ID: VMP-16-13.5-102512

Lab ID#: 1210577AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	56000	8600 J	130000	20000 J
Carbon Disulfide	14000	4500 J	44000	14000 J
Cyclohexane	14000	42000	48000	140000
2,2,4-Trimethylpentane	14000	2400000	66000	11000000
Benzene	14000	6900 J	45000	22000 J
Toluene	14000	1100 J	53000	4100 J
Butane	56000	32000 J	130000	77000 J
Isopentane	56000	860000	170000	2500000

Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	53000	6400 J	120000	15000 J
Carbon Disulfide	13000	4300 J	41000	14000 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577AR1-07A

Cyclohexane	13000	49000	45000	170000
2,2,4-Trimethylpentane	13000	1800000	62000	8600000
Benzene	13000	4400 J	42000	14000 J
Toluene	13000	1500 J	50000	5700 J
Butane	53000	56000	120000	130000
Isopentane	53000	1400000	160000	4100000

Client Sample ID: VMP-16-31-102512

Lab ID#: 1210577AR1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	16000	2500 J	51000	7800 J
Cyclohexane	16000	51000	56000	170000
2,2,4-Trimethylpentane	16000	2200000	77000	10000000
Benzene	16000	3700 J	52000	12000 J
Toluene	16000	1000 J	62000	3900 J
Butane	66000	62000 J	160000	150000 J
Isopentane	66000	1400000	190000	4200000

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Client Sample ID: VMP-1-23.5-102412

Lab ID#: 1210577AR1-01A

EPA METHOD TO-15 GC/MS

File Name:	**14103122**	**Date of Collection:**	**10/24/12 3:49:00 PM**
Dil. Factor:	**2410**	**Date of Analysis:**	**10/31/12 07:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	60000	Not Detected
Freon 114	12000	Not Detected	84000	Not Detected
Chloromethane	48000	Not Detected	100000	Not Detected
Vinyl Chloride	12000	Not Detected	31000	Not Detected
1,3-Butadiene	12000	Not Detected	27000	Not Detected
Bromomethane	12000	Not Detected	47000	Not Detected
Chloroethane	48000	Not Detected	130000	Not Detected
Freon 11	12000	Not Detected	68000	Not Detected
Ethanol	48000	Not Detected	91000	Not Detected
Freon 113	12000	Not Detected	92000	Not Detected
1,1-Dichloroethene	12000	Not Detected	48000	Not Detected
Acetone	48000	Not Detected	110000	Not Detected
2-Propanol	48000	Not Detected	120000	Not Detected
Carbon Disulfide	12000	Not Detected	38000	Not Detected
3-Chloropropene	48000	Not Detected	150000	Not Detected
Methylene Chloride	12000	Not Detected	42000	Not Detected
Methyl tert-butyl ether	12000	Not Detected	43000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	48000	Not Detected
Hexane	12000	27000	42000	96000
1,1-Dichloroethane	12000	Not Detected	49000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	48000	Not Detected	140000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	48000	Not Detected
Tetrahydrofuran	12000	Not Detected	36000	Not Detected
Chloroform	12000	Not Detected	59000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	66000	Not Detected
Cyclohexane	12000	6800 J	41000	23000 J
Carbon Tetrachloride	12000	Not Detected	76000	Not Detected
2,2,4-Trimethylpentane	12000	38000	56000	180000
Benzene	12000	Not Detected	38000	Not Detected
1,2-Dichloroethane	12000	Not Detected	49000	Not Detected
Heptane	12000	Not Detected	49000	Not Detected
Trichloroethene	12000	Not Detected	65000	Not Detected
1,2-Dichloropropane	12000	Not Detected	56000	Not Detected
1,4-Dioxane	48000	Not Detected	170000	Not Detected
Bromodichloromethane	12000	Not Detected	81000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	55000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	49000	Not Detected
Toluene	12000	3200 J	45000	12000 J
trans-1,3-Dichloropropene	12000	Not Detected	55000	Not Detected
1,1,2-Trichloroethane	12000	Not Detected	66000	Not Detected
Tetrachloroethene	12000	Not Detected	82000	Not Detected
2-Hexanone	48000	Not Detected	200000	Not Detected

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Client Sample ID: VMP-1-23.5-102412

Lab ID#: 1210577AR1-01A

EPA METHOD TO-15 GC/MS

File Name:	**14103122**	**Date of Collection:**	**10/24/12 3:49:00 PM**
Dil. Factor:	**2410**	**Date of Analysis:**	**10/31/12 07:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	12000	Not Detected	100000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	92000	Not Detected
Chlorobenzene	12000	Not Detected	55000	Not Detected
Ethyl Benzene	12000	Not Detected	52000	Not Detected
m,p-Xylene	12000	1600 J	52000	7000 J
o-Xylene	12000	Not Detected	52000	Not Detected
Styrene	12000	Not Detected	51000	Not Detected
Bromoform	12000	Not Detected	120000	Not Detected
Cumene	12000	Not Detected	59000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	83000	Not Detected
Propylbenzene	12000	Not Detected	59000	Not Detected
4-Ethyltoluene	12000	Not Detected	59000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	59000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	59000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	72000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	72000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	62000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	72000	Not Detected
1,2,4-Trichlorobenzene	48000	Not Detected	360000	Not Detected
Hexachlorobutadiene	48000	Not Detected	510000	Not Detected
Butane	48000	1700000	110000	4200000
Isopentane	48000	700000	140000	2100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-4-39-101812

Lab ID#: 1210577AR1-02A

EPA METHOD TO-15 GC/MS

File Name:	**14103124**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**3790**	**Date of Analysis:**	**10/31/12 08:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	19000	Not Detected	94000	Not Detected
Freon 114	19000	Not Detected	130000	Not Detected
Chloromethane	76000	Not Detected	160000	Not Detected
Vinyl Chloride	19000	Not Detected	48000	Not Detected
1,3-Butadiene	19000	Not Detected	42000	Not Detected
Bromomethane	19000	Not Detected	74000	Not Detected
Chloroethane	76000	Not Detected	200000	Not Detected
Freon 11	19000	Not Detected	110000	Not Detected
Ethanol	76000	Not Detected	140000	Not Detected
Freon 113	19000	Not Detected	140000	Not Detected
1,1-Dichloroethene	19000	Not Detected	75000	Not Detected
Acetone	76000	Not Detected	180000	Not Detected
2-Propanol	76000	Not Detected	190000	Not Detected
Carbon Disulfide	19000	Not Detected	59000	Not Detected
3-Chloropropene	76000	Not Detected	240000	Not Detected
Methylene Chloride	19000	Not Detected	66000	Not Detected
Methyl tert-butyl ether	19000	Not Detected	68000	Not Detected
trans-1,2-Dichloroethene	19000	Not Detected	75000	Not Detected
Hexane	19000	610000	67000	2200000
1,1-Dichloroethane	19000	Not Detected	77000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	76000	Not Detected	220000	Not Detected
cis-1,2-Dichloroethene	19000	Not Detected	75000	Not Detected
Tetrahydrofuran	19000	Not Detected	56000	Not Detected
Chloroform	19000	Not Detected	92000	Not Detected
1,1,1-Trichloroethane	19000	Not Detected	100000	Not Detected
Cyclohexane	19000	200000	65000	710000
Carbon Tetrachloride	19000	Not Detected	120000	Not Detected
2,2,4-Trimethylpentane	19000	330000	88000	1500000
Benzene	19000	8900 J	60000	28000 J
1,2-Dichloroethane	19000	Not Detected	77000	Not Detected
Heptane	19000	330000	78000	1400000
Trichloroethene	19000	Not Detected	100000	Not Detected
1,2-Dichloropropane	19000	Not Detected	88000	Not Detected
1,4-Dioxane	76000	Not Detected	270000	Not Detected
Bromodichloromethane	19000	Not Detected	130000	Not Detected
cis-1,3-Dichloropropene	19000	Not Detected	86000	Not Detected
4-Methyl-2-pentanone	19000	Not Detected	78000	Not Detected
Toluene	19000	130000	71000	480000
trans-1,3-Dichloropropene	19000	Not Detected	86000	Not Detected
1,1,2-Trichloroethane	19000	Not Detected	100000	Not Detected
Tetrachloroethene	19000	Not Detected	130000	Not Detected
2-Hexanone	76000	Not Detected	310000	Not Detected

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Client Sample ID: VMP-4-39-101812

Lab ID#: 1210577AR1-02A

EPA METHOD TO-15 GC/MS

File Name:	**14103124**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**3790**	**Date of Analysis:**	**10/31/12 08:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	19000	Not Detected	160000	Not Detected
1,2-Dibromoethane (EDB)	19000	Not Detected	140000	Not Detected
Chlorobenzene	19000	Not Detected	87000	Not Detected
Ethyl Benzene	19000	26000	82000	110000
m,p-Xylene	19000	44000	82000	190000
o-Xylene	19000	10000 J	82000	44000 J
Styrene	19000	Not Detected	81000	Not Detected
Bromoform	19000	Not Detected	200000	Not Detected
Cumene	19000	Not Detected	93000	Not Detected
1,1,2,2-Tetrachloroethane	19000	Not Detected	130000	Not Detected
Propylbenzene	19000	Not Detected	93000	Not Detected
4-Ethyltoluene	19000	Not Detected	93000	Not Detected
1,3,5-Trimethylbenzene	19000	Not Detected	93000	Not Detected
1,2,4-Trimethylbenzene	19000	Not Detected	93000	Not Detected
1,3-Dichlorobenzene	19000	Not Detected	110000	Not Detected
1,4-Dichlorobenzene	19000	Not Detected	110000	Not Detected
alpha-Chlorotoluene	19000	Not Detected	98000	Not Detected
1,2-Dichlorobenzene	19000	Not Detected	110000	Not Detected
1,2,4-Trichlorobenzene	76000	Not Detected	560000	Not Detected
Hexachlorobutadiene	76000	Not Detected	810000	Not Detected
Butane	76000	1600000	180000	3900000
Isopentane	76000	2200000	220000	6400000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577AR1-03A

EPA METHOD TO-15 GC/MS

File Name:	**14103125**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**3450**	**Date of Analysis:**	**10/31/12 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	17000	Not Detected	85000	Not Detected
Freon 114	17000	Not Detected	120000	Not Detected
Chloromethane	69000	Not Detected	140000	Not Detected
Vinyl Chloride	17000	Not Detected	44000	Not Detected
1,3-Butadiene	17000	Not Detected	38000	Not Detected
Bromomethane	17000	Not Detected	67000	Not Detected
Chloroethane	69000	Not Detected	180000	Not Detected
Freon 11	17000	Not Detected	97000	Not Detected
Ethanol	69000	Not Detected	130000	Not Detected
Freon 113	17000	Not Detected	130000	Not Detected
1,1-Dichloroethene	17000	Not Detected	68000	Not Detected
Acetone	69000	Not Detected	160000	Not Detected
2-Propanol	69000	Not Detected	170000	Not Detected
Carbon Disulfide	17000	Not Detected	54000	Not Detected
3-Chloropropene	69000	Not Detected	220000	Not Detected
Methylene Chloride	17000	Not Detected	60000	Not Detected
Methyl tert-butyl ether	17000	Not Detected	62000	Not Detected
trans-1,2-Dichloroethene	17000	Not Detected	68000	Not Detected
Hexane	17000	620000	61000	2200000
1,1-Dichloroethane	17000	Not Detected	70000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	69000	Not Detected	200000	Not Detected
cis-1,2-Dichloroethene	17000	Not Detected	68000	Not Detected
Tetrahydrofuran	17000	Not Detected	51000	Not Detected
Chloroform	17000	Not Detected	84000	Not Detected
1,1,1-Trichloroethane	17000	Not Detected	94000	Not Detected
Cyclohexane	17000	200000	59000	670000
Carbon Tetrachloride	17000	Not Detected	110000	Not Detected
2,2,4-Trimethylpentane	17000	330000	80000	1500000
Benzene	17000	8100 J	55000	26000 J
1,2-Dichloroethane	17000	Not Detected	70000	Not Detected
Heptane	17000	330000	71000	1400000
Trichloroethene	17000	Not Detected	93000	Not Detected
1,2-Dichloropropane	17000	Not Detected	80000	Not Detected
1,4-Dioxane	69000	Not Detected	250000	Not Detected
Bromodichloromethane	17000	Not Detected	120000	Not Detected
cis-1,3-Dichloropropene	17000	Not Detected	78000	Not Detected
4-Methyl-2-pentanone	17000	Not Detected	71000	Not Detected
Toluene	17000	130000	65000	480000
trans-1,3-Dichloropropene	17000	Not Detected	78000	Not Detected
1,1,2-Trichloroethane	17000	Not Detected	94000	Not Detected
Tetrachloroethene	17000	Not Detected	120000	Not Detected
2-Hexanone	69000	Not Detected	280000	Not Detected

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Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577AR1-03A

EPA METHOD TO-15 GC/MS

File Name:	**14103125**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**3450**	**Date of Analysis:**	**10/31/12 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	17000	Not Detected	150000	Not Detected
1,2-Dibromoethane (EDB)	17000	Not Detected	130000	Not Detected
Chlorobenzene	17000	Not Detected	79000	Not Detected
Ethyl Benzene	17000	24000	75000	100000
m,p-Xylene	17000	43000	75000	190000
o-Xylene	17000	11000 J	75000	47000 J
Styrene	17000	Not Detected	73000	Not Detected
Bromoform	17000	Not Detected	180000	Not Detected
Cumene	17000	Not Detected	85000	Not Detected
1,1,2,2-Tetrachloroethane	17000	Not Detected	120000	Not Detected
Propylbenzene	17000	Not Detected	85000	Not Detected
4-Ethyltoluene	17000	Not Detected	85000	Not Detected
1,3,5-Trimethylbenzene	17000	Not Detected	85000	Not Detected
1,2,4-Trimethylbenzene	17000	Not Detected	85000	Not Detected
1,3-Dichlorobenzene	17000	Not Detected	100000	Not Detected
1,4-Dichlorobenzene	17000	Not Detected	100000	Not Detected
alpha-Chlorotoluene	17000	Not Detected	89000	Not Detected
1,2-Dichlorobenzene	17000	Not Detected	100000	Not Detected
1,2,4-Trichlorobenzene	69000	Not Detected	510000	Not Detected
Hexachlorobutadiene	69000	Not Detected	740000	Not Detected
Butane	69000	1600000	160000	3900000
Isopentane	69000	2200000	200000	6400000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-12-39-102412

Lab ID#: 1210577AR1-04A

EPA METHOD TO-15 GC/MS

File Name:	**14103127**	**Date of Collection:**	**10/24/12 12:47:00 P**
Dil. Factor:	**1060**	**Date of Analysis:**	**10/31/12 10:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5300	Not Detected	26000	Not Detected
Freon 114	5300	Not Detected	37000	Not Detected
Chloromethane	21000	Not Detected	44000	Not Detected
Vinyl Chloride	5300	Not Detected	14000	Not Detected
1,3-Butadiene	5300	Not Detected	12000	Not Detected
Bromomethane	5300	Not Detected	20000	Not Detected
Chloroethane	21000	Not Detected	56000	Not Detected
Freon 11	5300	Not Detected	30000	Not Detected
Ethanol	21000	Not Detected	40000	Not Detected
Freon 113	5300	Not Detected	41000	Not Detected
1,1-Dichloroethene	5300	Not Detected	21000	Not Detected
Acetone	21000	Not Detected	50000	Not Detected
2-Propanol	21000	Not Detected	52000	Not Detected
Carbon Disulfide	5300	1700 J	16000	5300 J
3-Chloropropene	21000	Not Detected	66000	Not Detected
Methylene Chloride	5300	2000 J	18000	7100 J
Methyl tert-butyl ether	5300	600 J	19000	2200 J
trans-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Hexane	5300	16000	19000	58000
1,1-Dichloroethane	5300	Not Detected	21000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21000	Not Detected	62000	Not Detected
cis-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Tetrahydrofuran	5300	Not Detected	16000	Not Detected
Chloroform	5300	Not Detected	26000	Not Detected
1,1,1-Trichloroethane	5300	Not Detected	29000	Not Detected
Cyclohexane	5300	19000	18000	66000
Carbon Tetrachloride	5300	Not Detected	33000	Not Detected
2,2,4-Trimethylpentane	5300	160000	25000	770000
Benzene	5300	370000	17000	1200000
1,2-Dichloroethane	5300	Not Detected	21000	Not Detected
Heptane	5300	Not Detected	22000	Not Detected
Trichloroethene	5300	Not Detected	28000	Not Detected
1,2-Dichloropropane	5300	Not Detected	24000	Not Detected
1,4-Dioxane	21000	Not Detected	76000	Not Detected
Bromodichloromethane	5300	Not Detected	36000	Not Detected
cis-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
4-Methyl-2-pentanone	5300	Not Detected	22000	Not Detected
Toluene	5300	3600 J	20000	14000 J
trans-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
1,1,2-Trichloroethane	5300	Not Detected	29000	Not Detected
Tetrachloroethene	5300	Not Detected	36000	Not Detected
2-Hexanone	21000	Not Detected	87000	Not Detected

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Client Sample ID: VMP-12-39-102412

Lab ID#: 1210577AR1-04A

EPA METHOD TO-15 GC/MS

File Name:	**14103127**	**Date of Collection:**	**10/24/12 12:47:00 P**
Dil. Factor:	**1060**	**Date of Analysis:**	**10/31/12 10:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5300	Not Detected	45000	Not Detected
1,2-Dibromoethane (EDB)	5300	Not Detected	41000	Not Detected
Chlorobenzene	5300	Not Detected	24000	Not Detected
Ethyl Benzene	5300	1100 J	23000	4600 J
m,p-Xylene	5300	2300 J	23000	10000 J
o-Xylene	5300	490 J	23000	2100 J
Styrene	5300	Not Detected	22000	Not Detected
Bromoform	5300	Not Detected	55000	Not Detected
Cumene	5300	Not Detected	26000	Not Detected
1,1,2,2-Tetrachloroethane	5300	Not Detected	36000	Not Detected
Propylbenzene	5300	Not Detected	26000	Not Detected
4-Ethyltoluene	5300	Not Detected	26000	Not Detected
1,3,5-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,2,4-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,3-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,4-Dichlorobenzene	5300	Not Detected	32000	Not Detected
alpha-Chlorotoluene	5300	Not Detected	27000	Not Detected
1,2-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,2,4-Trichlorobenzene	21000	Not Detected	160000	Not Detected
Hexachlorobutadiene	21000	Not Detected	230000	Not Detected
Butane	21000	39000	50000	93000
Isopentane	21000	670000	62000	2000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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* Use these results only. All other data was reported from the 14/x dilution analysis.

Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577AR1-05A

EPA METHOD TO-15 GC/MS

File Name:	**14103130**	**Date of Collection:**	**10/25/12 10:15:00 A**
Dil. Factor:	**235**	**Date of Analysis:**	**11/1/12 07:00 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
Freon 12	1200	Not Detected	5800	Not Detected	
Freon 114	1200	Not Detected	8200	Not Detected	
Chloromethane	4700	Not Detected	9700	Not Detected	
Vinyl Chloride	1200	Not Detected	3000	Not Detected	
1,3-Butadiene	1200	Not Detected	2600	Not Detected	
Bromomethane	1200	Not Detected	4600	Not Detected	
Chloroethane	4700	Not Detected	12000	Not Detected	
Freon 11	1200	Not Detected	6600	Not Detected	
Ethanol	4700	Not Detected	8800	Not Detected	
Freon 113	1200	Not Detected	9000	Not Detected	
1,1-Dichloroethene	1200	Not Detected	4600	Not Detected	
Acetone	4700	760 J	11000	1800 J	
2-Propanol	4700	Not Detected	12000	Not Detected	
Carbon Disulfide	1200	370 J	3600	1200 J	
3-Chloropropene	4700	Not Detected	15000	Not Detected	
Methylene Chloride	1200	Not Detected	4100	Not Detected	
Methyl tert-butyl ether	1200	Not Detected	4200	Not Detected	
trans-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected	
Hexane	1200	Not Detected	4100	Not Detected	
1,1-Dichloroethane	1200	Not Detected	4800	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	4700	Not Detected	14000	Not Detected	
cis-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected	
Tetrahydrofuran	1200	Not Detected	3500	Not Detected	
Chloroform	1200	Not Detected	5700	Not Detected	
1,1,1-Trichloroethane	1200	Not Detected	6400	Not Detected	
Cyclohexane	1200	1300	4000	4500	
Carbon Tetrachloride	1200	Not Detected	7400	Not Detected	
2,2,4-Trimethylpentane	1200	210000	5500	1000000	J
Benzene	1200	200 J	3800	650 J	
1,2-Dichloroethane	1200	Not Detected	4800	Not Detected	
Heptane	1200	Not Detected	4800	Not Detected	
Trichloroethene	1200	Not Detected	6300	Not Detected	
1,2-Dichloropropane	1200	Not Detected	5400	Not Detected	
1,4-Dioxane	4700	Not Detected	17000	Not Detected	
Bromodichloromethane	1200	Not Detected	7900	Not Detected	
cis-1,3-Dichloropropene	1200	Not Detected	5300	Not Detected	
4-Methyl-2-pentanone	1200	Not Detected	4800	Not Detected	
Toluene	1200	160 J	4400	610 J	
trans-1,3-Dichloropropene	1200	Not Detected	5300	Not Detected	
1,1,2-Trichloroethane	1200	Not Detected	6400	Not Detected	
Tetrachloroethene	1200	Not Detected	8000	Not Detected	
2-Hexanone	4700	Not Detected	19000	Not Detected	

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Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577AR1-05A

EPA METHOD TO-15 GC/MS

File Name:	**14103130**	**Date of Collection:**	**10/25/12 10:15:00 A**
Dil. Factor:	**235**	**Date of Analysis:**	**11/1/12 07:00 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1200	Not Detected	10000	Not Detected
1,2-Dibromoethane (EDB)	1200	Not Detected	9000	Not Detected
Chlorobenzene	1200	Not Detected	5400	Not Detected
Ethyl Benzene	1200	Not Detected	5100	Not Detected
m,p-Xylene	1200	Not Detected	5100	Not Detected
o-Xylene	1200	Not Detected	5100	Not Detected
Styrene	1200	Not Detected	5000	Not Detected
Bromoform	1200	Not Detected	12000	Not Detected
Cumene	1200	Not Detected	5800	Not Detected
1,1,2,2-Tetrachloroethane	1200	Not Detected	8100	Not Detected
Propylbenzene	1200	Not Detected	5800	Not Detected
4-Ethyltoluene	1200	Not Detected	5800	Not Detected
1,3,5-Trimethylbenzene	1200	Not Detected	5800	Not Detected
1,2,4-Trimethylbenzene	1200	Not Detected	5800	Not Detected
1,3-Dichlorobenzene	1200	Not Detected	7100	Not Detected
1,4-Dichlorobenzene	1200	Not Detected	7100	Not Detected
alpha-Chlorotoluene	1200	Not Detected	6100	Not Detected
1,2-Dichlorobenzene	1200	Not Detected	7100	Not Detected
1,2,4-Trichlorobenzene	4700	Not Detected	35000	Not Detected
Hexachlorobutadiene	4700	Not Detected	50000	Not Detected
Butane	4700	1600 J	11000	3700 J
Isopentane	4700	36000	14000	100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577AR1-05B

EPA METHOD TO-15 GC/MS

File Name:	**14103129**	**Date of Collection:**	**10/25/12 10:15:00 A**
Dil. Factor:	**141**	**Date of Analysis:**	**11/1/12 06:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	700	Not Detected	3500	Not Detected
Freon 114	700	Not Detected	4900	Not Detected
Chloromethane	2800	Not Detected	5800	Not Detected
Vinyl Chloride	700	Not Detected	1800	Not Detected
1,3-Butadiene	700	Not Detected	1600	Not Detected
Bromomethane	700	Not Detected	2700	Not Detected
Chloroethane	2800	Not Detected	7400	Not Detected
Freon 11	700	Not Detected	4000	Not Detected
Ethanol	2800	Not Detected	5300	Not Detected
Freon 113	700	Not Detected	5400	Not Detected
1,1-Dichloroethene	700	Not Detected	2800	Not Detected
Acetone	2800	Not Detected	6700	Not Detected
2-Propanol	2800	Not Detected	6900	Not Detected
Carbon Disulfide	700	Not Detected	2200	Not Detected
3-Chloropropene	2800	Not Detected	8800	Not Detected
Methylene Chloride	700	Not Detected	2400	Not Detected
Methyl tert-butyl ether	700	Not Detected	2500	Not Detected
trans-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Hexane	700	Not Detected	2500	Not Detected
1,1-Dichloroethane	700	Not Detected	2800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2800	Not Detected	8300	Not Detected
cis-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Tetrahydrofuran	700	Not Detected	2100	Not Detected
Chloroform	700	Not Detected	3400	Not Detected
1,1,1-Trichloroethane	700	Not Detected	3800	Not Detected
Cyclohexane	700	1400	2400	4900
Carbon Tetrachloride	700	Not Detected	4400	Not Detected
* 2,2,4-Trimethylpentane	700	240000 E	3300	1100000 E
Benzene	700	200 J	2200	630 J
1,2-Dichloroethane	700	Not Detected	2800	Not Detected
Heptane	700	Not Detected	2900	Not Detected
Trichloroethene	700	Not Detected	3800	Not Detected
1,2-Dichloropropane	700	Not Detected	3200	Not Detected
1,4-Dioxane	2800	Not Detected	10000	Not Detected
Bromodichloromethane	700	Not Detected	4700	Not Detected
cis-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
4-Methyl-2-pentanone	700	Not Detected	2900	Not Detected
Toluene	700	47 J	2600	180 J
trans-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
1,1,2-Trichloroethane	700	Not Detected	3800	Not Detected
Tetrachloroethene	700	Not Detected	4800	Not Detected
2-Hexanone	2800	Not Detected	12000	Not Detected

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Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577AR1-05B

EPA METHOD TO-15 GC/MS

File Name:	**14103129**	**Date of Collection:**	**10/25/12 10:15:00 A**
Dil. Factor:	**141**	**Date of Analysis:**	**11/1/12 06:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	700	Not Detected	6000	Not Detected
1,2-Dibromoethane (EDB)	700	Not Detected	5400	Not Detected
Chlorobenzene	700	Not Detected	3200	Not Detected
Ethyl Benzene	700	Not Detected	3100	Not Detected
m,p-Xylene	700	Not Detected	3100	Not Detected
o-Xylene	700	Not Detected	3100	Not Detected
Styrene	700	Not Detected	3000	Not Detected
Bromoform	700	Not Detected	7300	Not Detected
Cumene	700	Not Detected	3500	Not Detected
1,1,2,2-Tetrachloroethane	700	Not Detected	4800	Not Detected
Propylbenzene	700	Not Detected	3500	Not Detected
4-Ethyltoluene	700	Not Detected	3500	Not Detected
1,3,5-Trimethylbenzene	700	Not Detected	3500	Not Detected
1,2,4-Trimethylbenzene	700	Not Detected	3500	Not Detected
1,3-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,4-Dichlorobenzene	700	Not Detected	4200	Not Detected
alpha-Chlorotoluene	700	Not Detected	3600	Not Detected
1,2-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,2,4-Trichlorobenzene	2800	Not Detected	21000	Not Detected
Hexachlorobutadiene	2800	Not Detected	30000	Not Detected
Butane	2800	1700 J	6700	4000 J
Isopentane	2800	39000	8300	120000

E = Exceeds instrument calibration range.
J = Estimated value.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-16-13.5-102512

Lab ID#: 1210577AR1-06A

EPA METHOD TO-15 GC/MS

File Name:	**14103132**	**Date of Collection:**	**10/25/12 10:59:00 A**
Dil. Factor:	**2820**	**Date of Analysis:**	**11/1/12 08:04 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14000	Not Detected	70000	Not Detected
Freon 114	14000	Not Detected	98000	Not Detected
Chloromethane	56000	Not Detected	120000	Not Detected
Vinyl Chloride	14000	Not Detected	36000	Not Detected
1,3-Butadiene	14000	Not Detected	31000	Not Detected
Bromomethane	14000	Not Detected	55000	Not Detected
Chloroethane	56000	Not Detected	150000	Not Detected
Freon 11	14000	Not Detected	79000	Not Detected
Ethanol	56000	Not Detected	110000	Not Detected
Freon 113	14000	Not Detected	110000	Not Detected
1,1-Dichloroethene	14000	Not Detected	56000	Not Detected
Acetone	56000	8600 J	130000	20000 J
2-Propanol	56000	Not Detected	140000	Not Detected
Carbon Disulfide	14000	4500 J	44000	14000 J
3-Chloropropene	56000	Not Detected	180000	Not Detected
Methylene Chloride	14000	Not Detected	49000	Not Detected
Methyl tert-butyl ether	14000	Not Detected	51000	Not Detected
trans-1,2-Dichloroethene	14000	Not Detected	56000	Not Detected
Hexane	14000	Not Detected	50000	Not Detected
1,1-Dichloroethane	14000	Not Detected	57000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	56000	Not Detected	170000	Not Detected
cis-1,2-Dichloroethene	14000	Not Detected	56000	Not Detected
Tetrahydrofuran	14000	Not Detected	42000	Not Detected
Chloroform	14000	Not Detected	69000	Not Detected
1,1,1-Trichloroethane	14000	Not Detected	77000	Not Detected
Cyclohexane	14000	42000	48000	140000
Carbon Tetrachloride	14000	Not Detected	89000	Not Detected
2,2,4-Trimethylpentane	14000	2400000	66000	11000000
Benzene	14000	6900 J	45000	22000 J
1,2-Dichloroethane	14000	Not Detected	57000	Not Detected
Heptane	14000	Not Detected	58000	Not Detected
Trichloroethene	14000	Not Detected	76000	Not Detected
1,2-Dichloropropane	14000	Not Detected	65000	Not Detected
1,4-Dioxane	56000	Not Detected	200000	Not Detected
Bromodichloromethane	14000	Not Detected	94000	Not Detected
cis-1,3-Dichloropropene	14000	Not Detected	64000	Not Detected
4-Methyl-2-pentanone	14000	Not Detected	58000	Not Detected
Toluene	14000	1100 J	53000	4100 J
trans-1,3-Dichloropropene	14000	Not Detected	64000	Not Detected
1,1,2-Trichloroethane	14000	Not Detected	77000	Not Detected
Tetrachloroethene	14000	Not Detected	96000	Not Detected
2-Hexanone	56000	Not Detected	230000	Not Detected

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Client Sample ID: VMP-16-13.5-102512

Lab ID#: 1210577AR1-06A

EPA METHOD TO-15 GC/MS

File Name:	**14103132**	**Date of Collection:**	**10/25/12 10:59:00 A**
Dil. Factor:	**2820**	**Date of Analysis:**	**11/1/12 08:04 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	14000	Not Detected	120000	Not Detected
1,2-Dibromoethane (EDB)	14000	Not Detected	110000	Not Detected
Chlorobenzene	14000	Not Detected	65000	Not Detected
Ethyl Benzene	14000	Not Detected	61000	Not Detected
m,p-Xylene	14000	Not Detected	61000	Not Detected
o-Xylene	14000	Not Detected	61000	Not Detected
Styrene	14000	Not Detected	60000	Not Detected
Bromoform	14000	Not Detected	140000	Not Detected
Cumene	14000	Not Detected	69000	Not Detected
1,1,2,2-Tetrachloroethane	14000	Not Detected	97000	Not Detected
Propylbenzene	14000	Not Detected	69000	Not Detected
4-Ethyltoluene	14000	Not Detected	69000	Not Detected
1,3,5-Trimethylbenzene	14000	Not Detected	69000	Not Detected
1,2,4-Trimethylbenzene	14000	Not Detected	69000	Not Detected
1,3-Dichlorobenzene	14000	Not Detected	85000	Not Detected
1,4-Dichlorobenzene	14000	Not Detected	85000	Not Detected
alpha-Chlorotoluene	14000	Not Detected	73000	Not Detected
1,2-Dichlorobenzene	14000	Not Detected	85000	Not Detected
1,2,4-Trichlorobenzene	56000	Not Detected	420000	Not Detected
Hexachlorobutadiene	56000	Not Detected	600000	Not Detected
Butane	56000	32000 J	130000	77000 J
Isopentane	56000	860000	170000	2500000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577AR1-07A

EPA METHOD TO-15 GC/MS

File Name:	**14103134**	**Date of Collection:**	**10/25/12 12:00:00 P**
Dil. Factor:	**2640**	**Date of Analysis:**	**11/1/12 08:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13000	Not Detected	65000	Not Detected
Freon 114	13000	Not Detected	92000	Not Detected
Chloromethane	53000	Not Detected	110000	Not Detected
Vinyl Chloride	13000	Not Detected	34000	Not Detected
1,3-Butadiene	13000	Not Detected	29000	Not Detected
Bromomethane	13000	Not Detected	51000	Not Detected
Chloroethane	53000	Not Detected	140000	Not Detected
Freon 11	13000	Not Detected	74000	Not Detected
Ethanol	53000	Not Detected	99000	Not Detected
Freon 113	13000	Not Detected	100000	Not Detected
1,1-Dichloroethene	13000	Not Detected	52000	Not Detected
Acetone	53000	6400 J	120000	15000 J
2-Propanol	53000	Not Detected	130000	Not Detected
Carbon Disulfide	13000	4300 J	41000	14000 J
3-Chloropropene	53000	Not Detected	160000	Not Detected
Methylene Chloride	13000	Not Detected	46000	Not Detected
Methyl tert-butyl ether	13000	Not Detected	48000	Not Detected
trans-1,2-Dichloroethene	13000	Not Detected	52000	Not Detected
Hexane	13000	Not Detected	46000	Not Detected
1,1-Dichloroethane	13000	Not Detected	53000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	53000	Not Detected	160000	Not Detected
cis-1,2-Dichloroethene	13000	Not Detected	52000	Not Detected
Tetrahydrofuran	13000	Not Detected	39000	Not Detected
Chloroform	13000	Not Detected	64000	Not Detected
1,1,1-Trichloroethane	13000	Not Detected	72000	Not Detected
Cyclohexane	13000	49000	45000	170000
Carbon Tetrachloride	13000	Not Detected	83000	Not Detected
2,2,4-Trimethylpentane	13000	1800000	62000	8600000
Benzene	13000	4400 J	42000	14000 J
1,2-Dichloroethane	13000	Not Detected	53000	Not Detected
Heptane	13000	Not Detected	54000	Not Detected
Trichloroethene	13000	Not Detected	71000	Not Detected
1,2-Dichloropropane	13000	Not Detected	61000	Not Detected
1,4-Dioxane	53000	Not Detected	190000	Not Detected
Bromodichloromethane	13000	Not Detected	88000	Not Detected
cis-1,3-Dichloropropene	13000	Not Detected	60000	Not Detected
4-Methyl-2-pentanone	13000	Not Detected	54000	Not Detected
Toluene	13000	1500 J	50000	5700 J
trans-1,3-Dichloropropene	13000	Not Detected	60000	Not Detected
1,1,2-Trichloroethane	13000	Not Detected	72000	Not Detected
Tetrachloroethene	13000	Not Detected	90000	Not Detected
2-Hexanone	53000	Not Detected	220000	Not Detected

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Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577AR1-07A

EPA METHOD TO-15 GC/MS

File Name:	**14103134**	**Date of Collection:**	**10/25/12 12:00:00 P**
Dil. Factor:	**2640**	**Date of Analysis:**	**11/1/12 08:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	13000	Not Detected	110000	Not Detected
1,2-Dibromoethane (EDB)	13000	Not Detected	100000	Not Detected
Chlorobenzene	13000	Not Detected	61000	Not Detected
Ethyl Benzene	13000	Not Detected	57000	Not Detected
m,p-Xylene	13000	Not Detected	57000	Not Detected
o-Xylene	13000	Not Detected	57000	Not Detected
Styrene	13000	Not Detected	56000	Not Detected
Bromoform	13000	Not Detected	140000	Not Detected
Cumene	13000	Not Detected	65000	Not Detected
1,1,2,2-Tetrachloroethane	13000	Not Detected	91000	Not Detected
Propylbenzene	13000	Not Detected	65000	Not Detected
4-Ethyltoluene	13000	Not Detected	65000	Not Detected
1,3,5-Trimethylbenzene	13000	Not Detected	65000	Not Detected
1,2,4-Trimethylbenzene	13000	Not Detected	65000	Not Detected
1,3-Dichlorobenzene	13000	Not Detected	79000	Not Detected
1,4-Dichlorobenzene	13000	Not Detected	79000	Not Detected
alpha-Chlorotoluene	13000	Not Detected	68000	Not Detected
1,2-Dichlorobenzene	13000	Not Detected	79000	Not Detected
1,2,4-Trichlorobenzene	53000	Not Detected	390000	Not Detected
Hexachlorobutadiene	53000	Not Detected	560000	Not Detected
Butane	53000	56000	120000	130000
Isopentane	53000	1400000	160000	4100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-16-31-102512

Lab ID#: 1210577AR1-08A

EPA METHOD TO-15 GC/MS

File Name:	**14103135**	**Date of Collection:**	**10/25/12 1:09:00 PM**
Dil. Factor:	**3280**	**Date of Analysis:**	**11/1/12 09:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16000	Not Detected	81000	Not Detected
Freon 114	16000	Not Detected	110000	Not Detected
Chloromethane	66000	Not Detected	140000	Not Detected
Vinyl Chloride	16000	Not Detected	42000	Not Detected
1,3-Butadiene	16000	Not Detected	36000	Not Detected
Bromomethane	16000	Not Detected	64000	Not Detected
Chloroethane	66000	Not Detected	170000	Not Detected
Freon 11	16000	Not Detected	92000	Not Detected
Ethanol	66000	Not Detected	120000	Not Detected
Freon 113	16000	Not Detected	120000	Not Detected
1,1-Dichloroethene	16000	Not Detected	65000	Not Detected
Acetone	66000	Not Detected	160000	Not Detected
2-Propanol	66000	Not Detected	160000	Not Detected
Carbon Disulfide	16000	2500 J	51000	7800 J
3-Chloropropene	66000	Not Detected	200000	Not Detected
Methylene Chloride	16000	Not Detected	57000	Not Detected
Methyl tert-butyl ether	16000	Not Detected	59000	Not Detected
trans-1,2-Dichloroethene	16000	Not Detected	65000	Not Detected
Hexane	16000	Not Detected	58000	Not Detected
1,1-Dichloroethane	16000	Not Detected	66000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	66000	Not Detected	190000	Not Detected
cis-1,2-Dichloroethene	16000	Not Detected	65000	Not Detected
Tetrahydrofuran	16000	Not Detected	48000	Not Detected
Chloroform	16000	Not Detected	80000	Not Detected
1,1,1-Trichloroethane	16000	Not Detected	89000	Not Detected
Cyclohexane	16000	51000	56000	170000
Carbon Tetrachloride	16000	Not Detected	100000	Not Detected
2,2,4-Trimethylpentane	16000	2200000	77000	10000000
Benzene	16000	3700 J	52000	12000 J
1,2-Dichloroethane	16000	Not Detected	66000	Not Detected
Heptane	16000	Not Detected	67000	Not Detected
Trichloroethene	16000	Not Detected	88000	Not Detected
1,2-Dichloropropane	16000	Not Detected	76000	Not Detected
1,4-Dioxane	66000	Not Detected	240000	Not Detected
Bromodichloromethane	16000	Not Detected	110000	Not Detected
cis-1,3-Dichloropropene	16000	Not Detected	74000	Not Detected
4-Methyl-2-pentanone	16000	Not Detected	67000	Not Detected
Toluene	16000	1000 J	62000	3900 J
trans-1,3-Dichloropropene	16000	Not Detected	74000	Not Detected
1,1,2-Trichloroethane	16000	Not Detected	89000	Not Detected
Tetrachloroethene	16000	Not Detected	110000	Not Detected
2-Hexanone	66000	Not Detected	270000	Not Detected

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Client Sample ID: VMP-16-31-102512

Lab ID#: 1210577AR1-08A

EPA METHOD TO-15 GC/MS

File Name:	**14103135**	**Date of Collection:**	**10/25/12 1:09:00 PM**
Dil. Factor:	**3280**	**Date of Analysis:**	**11/1/12 09:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	16000	Not Detected	140000	Not Detected
1,2-Dibromoethane (EDB)	16000	Not Detected	130000	Not Detected
Chlorobenzene	16000	Not Detected	76000	Not Detected
Ethyl Benzene	16000	Not Detected	71000	Not Detected
m,p-Xylene	16000	Not Detected	71000	Not Detected
o-Xylene	16000	Not Detected	71000	Not Detected
Styrene	16000	Not Detected	70000	Not Detected
Bromoform	16000	Not Detected	170000	Not Detected
Cumene	16000	Not Detected	81000	Not Detected
1,1,2,2-Tetrachloroethane	16000	Not Detected	110000	Not Detected
Propylbenzene	16000	Not Detected	81000	Not Detected
4-Ethyltoluene	16000	Not Detected	81000	Not Detected
1,3,5-Trimethylbenzene	16000	Not Detected	81000	Not Detected
1,2,4-Trimethylbenzene	16000	Not Detected	81000	Not Detected
1,3-Dichlorobenzene	16000	Not Detected	99000	Not Detected
1,4-Dichlorobenzene	16000	Not Detected	99000	Not Detected
alpha-Chlorotoluene	16000	Not Detected	85000	Not Detected
1,2-Dichlorobenzene	16000	Not Detected	99000	Not Detected
1,2,4-Trichlorobenzene	66000	Not Detected	490000	Not Detected
Hexachlorobutadiene	66000	Not Detected	700000	Not Detected
Butane	66000	62000 J	160000	150000 J
Isopentane	66000	1400000	190000	4200000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210577AR1-09A

EPA METHOD TO-15 GC/MS

File Name:	**14103106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 12:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	2.6 J	38	4.9 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	0.52 J	23	2.4 J
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210577AR1-09A

EPA METHOD TO-15 GC/MS

File Name:	**14103106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 12:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1210577AR1-10A

EPA METHOD TO-15 GC/MS

File Name:	**14103102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 10:35 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	106
Chloromethane	107
Vinyl Chloride	98
1,3-Butadiene	88
Bromomethane	94
Chloroethane	113
Freon 11	108
Ethanol	88
Freon 113	102
1,1-Dichloroethene	105
Acetone	100
2-Propanol	96
Carbon Disulfide	95
3-Chloropropene	93
Methylene Chloride	103
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	100
Hexane	99
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	105
Tetrahydrofuran	96
Chloroform	101
1,1,1-Trichloroethane	101
Cyclohexane	100
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	103
Benzene	98
1,2-Dichloroethane	104
Heptane	97
Trichloroethene	100
1,2-Dichloropropane	100
1,4-Dioxane	98
Bromodichloromethane	101
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	94
Toluene	97
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	99
Tetrachloroethene	99
2-Hexanone	95

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Client Sample ID: CCV
Lab ID#: 1210577AR1-10A
EPA METHOD TO-15 GC/MS

File Name:	**14103102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 10:35 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	95
m,p-Xylene	97
o-Xylene	97
Styrene	98
Bromoform	112
Cumene	102
1,1,2,2-Tetrachloroethane	102
Propylbenzene	103
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	111
Butane	88
Isopentane	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS
Lab ID#: 1210577AR1-11A
EPA METHOD TO-15 GC/MS

File Name:	**14103103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 10:58 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	106
Chloromethane	109
Vinyl Chloride	102
1,3-Butadiene	90
Bromomethane	88
Chloroethane	100
Freon 11	108
Ethanol	100
Freon 113	103
1,1-Dichloroethene	113
Acetone	106
2-Propanol	97
Carbon Disulfide	124
3-Chloropropene	110
Methylene Chloride	104
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	116
Hexane	97
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	106
Tetrahydrofuran	95
Chloroform	103
1,1,1-Trichloroethane	103
Cyclohexane	100
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	100
Benzene	103
1,2-Dichloroethane	106
Heptane	97
Trichloroethene	101
1,2-Dichloropropane	103
1,4-Dioxane	97
Bromodichloromethane	104
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	99
Toluene	98
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	97

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Client Sample ID: LCS
Lab ID#: 1210577AR1-11A
EPA METHOD TO-15 GC/MS

File Name:	**14103103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 10:58 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	103
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	99
o-Xylene	97
Styrene	98
Bromoform	111
Cumene	103
1,1,2,2-Tetrachloroethane	103
Propylbenzene	104
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	102
Butane	84
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD
Lab ID#: 1210577AR1-11AA
EPA METHOD TO-15 GC/MS

File Name:	**14103104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 11:17 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	106
Chloromethane	111
Vinyl Chloride	102
1,3-Butadiene	92
Bromomethane	91
Chloroethane	94
Freon 11	110
Ethanol	104
Freon 113	104
1,1-Dichloroethene	115
Acetone	105
2-Propanol	99
Carbon Disulfide	127
3-Chloropropene	109
Methylene Chloride	105
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	116
Hexane	100
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	108
Tetrahydrofuran	97
Chloroform	105
1,1,1-Trichloroethane	104
Cyclohexane	102
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	103
Benzene	102
1,2-Dichloroethane	104
Heptane	98
Trichloroethene	101
1,2-Dichloropropane	103
1,4-Dioxane	96
Bromodichloromethane	104
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	97
Toluene	99
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	99
Tetrachloroethene	100
2-Hexanone	98

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Client Sample ID: LCSD
Lab ID#: 1210577AR1-11AA
EPA METHOD TO-15 GC/MS

File Name:	**14103104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 11:17 AM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	97
Styrene	98
Bromoform	110
Cumene	102
1,1,2,2-Tetrachloroethane	103
Propylbenzene	104
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	112
Butane	88
Isopentane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

1210577

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/25/12

PO. #

SAP #: 3 4 0 0 6 1

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME/#: Roxana Soil Vapor

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

L.Rathnow, C. Kretzer, M. Mansker, C. Williams, M. Currier

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-1-23.5-102412	10/24/12	1519-1549	36505	-26.5	-8.5			X	X	
02A	VMP-4-39-101812	10/18/12	1142-1220	36436	-29	-9.5			X	X	
03A	VMP-4-39-101812-Dup	10/18/12	1142-1220	36391	-29	-7.5			X	X	
04A	VMP-12-39-102412	10/24/12	1216-1247	36543	-30	-10.5			X	X	
05A	VMP-16-5-102512	10/25/12	0945-1015	9343	-26.5	-8			X	X	
06A	VMP-16-13.5-102512	10/25/12	1029-1059	15741	-30	-7.5			X	X	
07A	VMP-16-19-102512	10/25/12	1124-1200	35549	-30	-5.5			X	X	
08A	VMP-16-31-102512	10/25/12	1239-1309	12377	-30	-10.5			X	X	

10/25/12

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FedEx

CUSTODY SEAL INTACT? (Y) N NO: NA

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		FEDEX	10/25/12	1700
	Relinquished by: (Signature)	Received by: (Signature) Katie Decker ATL	10/26/12	0940
	Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2/08 Revision

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11/8/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210577B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210577B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/08/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-23.5-102412	Modified ASTM D-1946	9.0 "Hg	15 psi
02A	VMP-4-39-101812	Modified ASTM D-1946	10.0 "Hg	15 psi
03A	VMP-4-39-101812-Dup	Modified ASTM D-1946	8.0 "Hg	15 psi
04A	VMP-12-39-102412	Modified ASTM D-1946	11.0 "Hg	15 psi
05A	VMP-16-5-102512	Modified ASTM D-1946	8.5 "Hg	15 psi
06A	VMP-16-13.5-102512	Modified ASTM D-1946	8.5 "Hg	15 psi
07A	VMP-16-19-102512	Modified ASTM D-1946	7.0 "Hg	15 psi
08A	VMP-16-31-102512	Modified ASTM D-1946	11.5 "Hg	15 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayes DATE: 11/08/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210577B

Eight 1 Liter Summa Canister samples were received on October 26, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-23.5-102412

Lab ID#: 1210577B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	78
Methane	0.00029	1.3
Carbon Dioxide	0.029	1.3
Ethane	0.0029	0.00057 J
Helium	0.14	0.14

Client Sample ID: VMP-4-39-101812

Lab ID#: 1210577B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	75
Methane	0.00030	3.1
Carbon Dioxide	0.030	8.8
Ethane	0.0030	0.00050 J
Ethene	0.0030	0.000087 J
Helium	0.15	0.048

Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	75
Methane	0.00028	3.1
Carbon Dioxide	0.028	8.7
Ethane	0.0028	0.00049 J
Ethene	0.0028	0.000089 J
Helium	0.14	0.012 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-12-39-102412

Lab ID#: 1210577B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	1.6
Nitrogen	0.32	72
Methane	0.00032	12
Carbon Dioxide	0.032	14
Ethane	0.0032	0.00078 J
Helium	0.16	0.035

Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	5.5
Nitrogen	0.28	82
Methane	0.00028	1.1
Carbon Dioxide	0.028	11

Client Sample ID: VMP-16-13.5-102512

Lab ID#: 1210577B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.3
Nitrogen	0.28	68
Methane	0.00028	16
Carbon Dioxide	0.028	16
Ethane	0.0028	0.00051 J

Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.0
Nitrogen	0.26	51

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577B-07A

Methane	0.00026	32
Carbon Dioxide	0.026	16
Ethane	0.0026	0.00096 J

Client Sample ID: VMP-16-31-102512

Lab ID#: 1210577B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.33	1.1
Nitrogen	0.33	47
Methane	0.00033	36
Carbon Dioxide	0.033	16
Ethane	0.0033	0.0010 J

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Client Sample ID: VMP-1-23.5-102412

Lab ID#: 1210577B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103127**	**Date of Collection:**	**10/24/12 3:49:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**11/1/12 06:49 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	19
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	1.3
Carbon Dioxide	0.029	1.3
Ethane	0.0029	0.00057 J
Ethene	0.0029	Not Detected
Helium	0.14	0.14

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-4-39-101812

Lab ID#: 1210577B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103128**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**3.03**	**Date of Analysis:**	**11/1/12 07:14 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	13
Nitrogen	0.30	75
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	3.1
Carbon Dioxide	0.030	8.8
Ethane	0.0030	0.00050 J
Ethene	0.0030	0.000087 J
Helium	0.15	0.048

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-4-39-101812-Dup

Lab ID#: 1210577B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103129**	**Date of Collection:**	**10/18/12 12:20:00 P**
Dil. Factor:	**2.76**	**Date of Analysis:**	**11/1/12 07:38 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	75
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	3.1
Carbon Dioxide	0.028	8.7
Ethane	0.0028	0.00049 J
Ethene	0.0028	0.000089 J
Helium	0.14	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-12-39-102412

Lab ID#: 1210577B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103130**	**Date of Collection:**	**10/24/12 12:47:00 P**
Dil. Factor:	**3.19**	**Date of Analysis:**	**11/1/12 08:03 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	1.6
Nitrogen	0.32	72
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	12
Carbon Dioxide	0.032	14
Ethane	0.0032	0.00078 J
Ethene	0.0032	Not Detected
Helium	0.16	0.035

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-16-5-102512

Lab ID#: 1210577B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103131**	**Date of Collection:**	**10/25/12 10:15:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**11/1/12 08:26 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	5.5
Nitrogen	0.28	82
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	1.1
Carbon Dioxide	0.028	11
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-16-13.5-102512

Lab ID#: 1210577B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103132**	**Date of Collection:**	**10/25/12 10:59:00 A**
Dil. Factor:	**2.82**	**Date of Analysis:**	**11/1/12 08:49 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.3
Nitrogen	0.28	68
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	16
Carbon Dioxide	0.028	16
Ethane	0.0028	0.00051 J
Ethene	0.0028	Not Detected
Helium	0.14	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-16-19-102512

Lab ID#: 1210577B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103134**	**Date of Collection:**	**10/25/12 12:00:00 P**
Dil. Factor:	**2.64**	**Date of Analysis:**	**11/1/12 09:31 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.0
Nitrogen	0.26	51
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	32
Carbon Dioxide	0.026	16
Ethane	0.0026	0.00096 J
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-16-31-102512

Lab ID#: 1210577B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103133**	**Date of Collection:**	**10/25/12 1:09:00 PM**
Dil. Factor:	**3.28**	**Date of Analysis:**	**11/1/12 09:10 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.33	1.1
Nitrogen	0.33	47
Carbon Monoxide	0.033	Not Detected
Methane	0.00033	36
Carbon Dioxide	0.033	16
Ethane	0.0033	0.0010 J
Ethene	0.0033	Not Detected
Helium	0.16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210577B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103113**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 06:10 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210577B-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103112b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 05:43 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210577B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103111**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/12 05:16 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	97
Methane	98
Carbon Dioxide	100
Ethane	99
Ethene	96
Helium	101

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210577B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9103135**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:55 AM**	

Compound	%Recovery
Oxygen	98
Nitrogen	100
Carbon Monoxide	95
Methane	98
Carbon Dioxide	100
Ethane	99
Ethene	96
Helium	102

Container Type: NA - Not Applicable

12103577

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/25/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
L.Rathnow, C. Kretzer, M. Mansker, C. Williams, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EMail To Contact: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-1-23.5-102412	10/24/12	1519-1549	36505	-29.5	-8.5			X	X	
02A	VMP-4-39-101812	10/18/12	1142-1220	36435	-29	-9.5			X	X	
03A	VMP-4-39-101812-Dup	10/18/12	1142-1220	36391	-29	-7.5			X	X	
04A	VMP-12-39-102412	10/24/12	1218-1247	36543	-30	-10.5			X	X	
05A	VMP-16-5-102512	10/25/12	0945-1015	9343	-26.5	-8			X	X	
06A	VMP-16-13.5-102512	10/25/12	1029-1059	15741	-30	-7.5			X	X	
07A	VMP-16-19-102512	10/25/12	1124-1200	35549	-30	-5.5			X	X	
08A	VMP-16-31-102512	10/25/12	1239-1309	12377	-30	-10.5			X	X	

10/25/12

Turn Around Time: ☑ Normal ☐ Rush ____ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FedEx
CUSTODY SEAL INTACT? (Y) N NO N/A

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/25/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) Katie Jeeks ATL	Date: 10/26/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210676A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-12-11.5-102612	VMP-25-5-102612
VMP-31-5-102612	VMP-31-10-102612

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated reporting limits for 1,2,4-trichlorobenzene results were raised due to instrument linear calibration range difficulties. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS/LCSD recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210676A-05A	TO-15	Methylene chloride	0.15 ppbv / 0.52 µg/m^3
1210676B-05A	Natural gases	Oxygen	0.024%
1210676B-05A	Natural gases	Nitrogen	0.061%

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-31-10-102612	TO-15	Methylene chloride	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210676A-07A/AA	TO-15	2-Propanol	130/**132**	2	70-130/25
1210676A-07A/AA	TO-15	3-Chloropropene	**134/134**	0	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-12-11.5-102612	TO-15	2-Propanol	**J**
VMP-25-5-102612	TO-15	2-Propanol	**J**
VMP-31-5-102612	TO-15	2-Propanol	**J**
VMP-31-10-102612	TO-15	2-Propanol	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties; qualifications are summarized in the following table.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-12-11.5-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-25-5-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-31-5-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-31-10-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment

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11/13/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210676A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

eurofins | Air Toxics

WORK ORDER #: 1210676A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/31/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/13/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-12-11.5-102612	Modified TO-15	9.0 "Hg	15 psi
02A	VMP-25-5-102612	Modified TO-15	7.5 "Hg	15 psi
03A	VMP-31-5-102612	Modified TO-15	8.0 "Hg	15 psi
04A	VMP-31-10-102612	Modified TO-15	9.5 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/13/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210676A

Four 1 Liter Summa Canister samples were received on October 31, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene was raised from 2.0 ppbv to 5.0 ppbv.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-12-11.5-102612

Lab ID#: 1210676A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	7.1	2.2 J
Ethanol	5.8	13	11	25
Acetone	14	11 J	34	26 J
2-Propanol	5.8	6.6 J	14	16 J
Hexane	1.4	1.6	5.1	5.7
2-Butanone (Methyl Ethyl Ketone)	5.8	1.8 J	17	5.5 J
Cyclohexane	1.4	1.1 J	5.0	3.7 J
2,2,4-Trimethylpentane	1.4	4.4	6.8	20
Benzene	1.4	3.1	4.6	9.8
Heptane	1.4	0.39 J	5.9	1.6 J
4-Methyl-2-pentanone	1.4	7.8	5.9	32
Toluene	1.4	1.3 J	5.4	4.8 J
m,p-Xylene	1.4	0.52 J	6.3	2.2 J
Cumene	1.4	3.2	7.1	16
1,2,4-Trimethylbenzene	1.4	0.35 J	7.1	1.7 J
Butane	5.8	17	14	41
Isopentane	5.8	22	17	66

Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.4	25	10	48
Acetone	13	4.9 J	32	12 J
2-Propanol	5.4	3.9 J J	13	9.6 J J
2-Butanone (Methyl Ethyl Ketone)	5.4	1.2 J	16	3.5 J
Chloroform	1.3	0.81 J	6.6	4.0 J
2,2,4-Trimethylpentane	1.3	14	6.3	67
Benzene	1.3	0.53 J	4.3	1.7 J
4-Methyl-2-pentanone	1.3	4.3	5.5	18
Toluene	1.3	0.97 J	5.1	3.6 J
m,p-Xylene	1.3	0.23 J	5.8	1.0 J
Cumene	1.3	2.7	6.6	13

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676A-02A

Isopentane	5.4	4.6 J	16	14 J

Client Sample ID: VMP-31-5-102612

Lab ID#: 1210676A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.42 J	6.8	2.1 J
Chloromethane	14	1.9 J	28	4.0 J
Ethanol	5.5	21	10	40
Acetone	14	62	33	150
2-Propanol	5.5	25 J	14	62 J
Hexane	1.4	6.1	4.9	21
2-Butanone (Methyl Ethyl Ketone)	5.5	15	16	45
Tetrahydrofuran	1.4	0.66 J	4.1	2.0 J
Cyclohexane	1.4	4.2	4.8	14
2,2,4-Trimethylpentane	1.4	20	6.4	93
Benzene	1.4	4.8	4.4	15
Heptane	1.4	2.7	5.6	11
4-Methyl-2-pentanone	1.4	22	5.6	90
Toluene	1.4	2.6	5.2	9.9
Chlorobenzene	1.4	0.34 J	6.4	1.5 J
m,p-Xylene	1.4	0.70 J	6.0	3.0 J
Styrene	1.4	0.16 J	5.9	0.68 J
Cumene	1.4	5.2	6.8	26
Propylbenzene	1.4	0.16 J	6.8	0.77 J
4-Ethyltoluene	1.4	0.17 J	6.8	0.84 J
1,2,4-Trimethylbenzene	1.4	0.42 J	6.8	2.0 J
alpha-Chlorotoluene	1.4	0.43 J	7.1	2.2 J
Butane	5.5	95	13	230
Isopentane	5.5	68	16	200

Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676A-04A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.46 J	7.3	2.3 J
Ethanol	5.9	26	11	49
Acetone	15	15	35	36
2-Propanol	5.9	49 J	14	120 J
Methylene Chloride	15	~~0.53 J~~ U	51	~~1.8 J~~ U
Hexane	1.5	0.53 J	5.2	1.9 J
2-Butanone (Methyl Ethyl Ketone)	5.9	3.0 J	17	8.9 J
Tetrahydrofuran	1.5	0.34 J	4.4	1.0 J
Cyclohexane	1.5	0.63 J	5.1	2.2 J
2,2,4-Trimethylpentane	1.5	20	6.9	95
Benzene	1.5	6.4	4.7	20
4-Methyl-2-pentanone	1.5	27	6.1	110
Toluene	1.5	1.7	5.6	6.5
m,p-Xylene	1.5	0.60 J	6.4	2.6 J
Cumene	1.5	4.0	7.3	20
Propylbenzene	1.5	0.25 J	7.3	1.2 J
1,2,4-Trimethylbenzene	1.5	0.43 J	7.3	2.1 J
Butane	5.9	44	14	100
Isopentane	5.9	19	17	57

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Client Sample ID: VMP-12-11.5-102612

Lab ID#: 1210676A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110112**	**Date of Collection:**	**10/26/12 2:31:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**11/1/12 08:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	7.1	2.2 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	13	11	25
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	14	11 J	34	26 J
2-Propanol	5.8	6.6 J	14	16 J
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	50	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	1.6	5.1	5.7
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	1.8 J	17	5.5 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	1.1 J	5.0	3.7 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	4.4	6.8	20
Benzene	1.4	3.1	4.6	9.8
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.39 J	5.9	1.6 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	7.8	5.9	32
Toluene	1.4	1.3 J	5.4	4.8 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: VMP-12-11.5-102612

Lab ID#: 1210676A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110112**	**Date of Collection:**	**10/26/12 2:31:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**11/1/12 08:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	Not Detected	6.3	Not Detected
m,p-Xylene	1.4	0.52 J	6.3	2.2 J
o-Xylene	1.4	Not Detected	6.3	Not Detected
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	3.2	7.1	16
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.1	Not Detected
1,2,4-Trimethylbenzene	1.4	0.35 J	7.1	1.7 J
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	17	14	41
Isopentane	5.8	22	17	66

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110113**	**Date of Collection:**	**10/26/12 10:04:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**11/1/12 09:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.6	Not Detected
Ethanol	5.4	25	10	48
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	4.9 J	32	12 J
2-Propanol	5.4	3.9 J J	13	9.6 J J
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	Not Detected	4.7	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	1.2 J	16	3.5 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	0.81 J	6.6	4.0 J
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	14	6.3	67
Benzene	1.3	0.53 J	4.3	1.7 J
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	4.3	5.5	18
Toluene	1.3	0.97 J	5.1	3.6 J
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110113**	**Date of Collection:**	**10/26/12 10:04:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**11/1/12 09:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	0.23 J	5.8	1.0 J
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	2.7	6.6	13
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	13	Not Detected UJ	100	Not Detected UJ
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	Not Detected	13	Not Detected
Isopentane	5.4	4.6 J	16	14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-31-5-102612

Lab ID#: 1210676A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110114**	**Date of Collection:**	**10/26/12 3:12:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**11/1/12 10:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.42 J	6.8	2.1 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	1.9 J	28	4.0 J
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	21	10	40
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	62	33	150
2-Propanol	5.5	25 J	14	62 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	6.1	4.9	21
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	15	16	45
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	0.66 J	4.1	2.0 J
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	4.2	4.8	14
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	20	6.4	93
Benzene	1.4	4.8	4.4	15
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	2.7	5.6	11
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	22	5.6	90
Toluene	1.4	2.6	5.2	9.9
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

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Client Sample ID: VMP-31-5-102612

Lab ID#: 1210676A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110114**	**Date of Collection: 10/26/12 3:12:00 PM**	
Dil. Factor:	**2.76**	**Date of Analysis: 11/1/12 10:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	0.34 J	6.4	1.5 J
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	0.70 J	6.0	3.0 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	0.16 J	5.9	0.68 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	5.2	6.8	26
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.16 J	6.8	0.77 J
4-Ethyltoluene	1.4	0.17 J	6.8	0.84 J
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	0.42 J	6.8	2.0 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	0.43 J	7.1	2.2 J
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected UJ	100	Not Detected UJ
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	95	13	230
Isopentane	5.5	68	16	200

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110115**	**Date of Collection:**	**10/26/12 4:02:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**11/1/12 11:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.46 J	7.3	2.3 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	30	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	26	11	49
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	15	35	36
2-Propanol	5.9	49 J	14	120 J
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	~~0.53 J~~ U1	51	~~1.8 J~~ U1
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.53 J	5.2	1.9 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	3.0 J	17	8.9 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	0.34 J	4.4	1.0 J
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	0.63 J	5.1	2.2 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	20	6.9	95
Benzene	1.5	6.4	4.7	20
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	27	6.1	110
Toluene	1.5	1.7	5.6	6.5
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110115**	**Date of Collection:**	**10/26/12 4:02:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**11/1/12 11:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.60 J	6.4	2.6 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	4.0	7.3	20
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.25 J	7.3	1.2 J
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	Not Detected	7.3	Not Detected
1,2,4-Trimethylbenzene	1.5	0.43 J	7.3	2.1 J
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	44	14	100
Isopentane	5.9	19	17	57

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210676A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110108d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.15 J	17	0.52 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210676A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110108d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 1210676A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:30 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	102
Chloromethane	111
Vinyl Chloride	102
1,3-Butadiene	100
Bromomethane	120
Chloroethane	111
Freon 11	90
Ethanol	128
Freon 113	91
1,1-Dichloroethene	96
Acetone	112
2-Propanol	127
Carbon Disulfide	93
3-Chloropropene	106
Methylene Chloride	100
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	93
Hexane	91
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	93
Tetrahydrofuran	98
Chloroform	92
1,1,1-Trichloroethane	93
Cyclohexane	91
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	89
Benzene	91
1,2-Dichloroethane	95
Heptane	95
Trichloroethene	96
1,2-Dichloropropane	96
1,4-Dioxane	107
Bromodichloromethane	101
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	105
Toluene	91
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	96
Tetrachloroethene	94
2-Hexanone	110

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Client Sample ID: CCV

Lab ID#: 1210676A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:30 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	99
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	88
o-Xylene	91
Styrene	94
Bromoform	107
Cumene	91
1,1,2,2-Tetrachloroethane	99
Propylbenzene	91
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	85
Butane	105
Isopentane	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1210676A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:17 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	122
Vinyl Chloride	108
1,3-Butadiene	104
Bromomethane	127
Chloroethane	117
Freon 11	95
Ethanol	129
Freon 113	99
1,1-Dichloroethene	117
Acetone	113
2-Propanol	130
Carbon Disulfide	128
3-Chloropropene	134 Q
Methylene Chloride	114
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	108
Hexane	93
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	98
Tetrahydrofuran	98
Chloroform	98
1,1,1-Trichloroethane	98
Cyclohexane	98
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	93
Benzene	99
1,2-Dichloroethane	104
Heptane	102
Trichloroethene	104
1,2-Dichloropropane	101
1,4-Dioxane	105
Bromodichloromethane	108
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	109
Toluene	98
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	102
Tetrachloroethene	100
2-Hexanone	111

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Client Sample ID: LCS

Lab ID#: 1210676A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:17 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	107
Chlorobenzene	100
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	104
Styrene	110
Bromoform	109
Cumene	104
1,1,2,2-Tetrachloroethane	108
Propylbenzene	108
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	98
Butane	107
Isopentane	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1210676A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:53 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	105
Chloromethane	120
Vinyl Chloride	107
1,3-Butadiene	102
Bromomethane	128
Chloroethane	119
Freon 11	95
Ethanol	128
Freon 113	100
1,1-Dichloroethene	118
Acetone	116
2-Propanol	132 Q
Carbon Disulfide	129
3-Chloropropene	134 Q
Methylene Chloride	116
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	110
Hexane	94
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	100
Tetrahydrofuran	101
Chloroform	100
1,1,1-Trichloroethane	99
Cyclohexane	98
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	96
Benzene	97
1,2-Dichloroethane	102
Heptane	102
Trichloroethene	102
1,2-Dichloropropane	100
1,4-Dioxane	103
Bromodichloromethane	106
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	107
Toluene	96
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	112

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Client Sample ID: LCSD

Lab ID#: 1210676A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:53 AM**	

Compound	%Recovery
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	105
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	101
Styrene	105
Bromoform	109
Cumene	101
1,1,2,2-Tetrachloroethane	108
Propylbenzene	104
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	94
Butane	108
Isopentane	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

1210676

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 97216640
SAP #: 340051
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/30/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/NO.: Roxana Soil Vapor
Laboratory, Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
M. Currier, C. Kretzer, C. Williams
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1945 + Helium	ASTM D-1946
01A	VMP-12-11.5-102612	10/26/12	1401-1431	24402	-30	-9			X	X	
02A	VMP-25-5-102612	10/26/12	0934-1004	1737	-30	-10.5			X	X	
03A	VMP-31-5-102612	10/26/12	1443-1512	9371	-30	-9			X	X	
04A	VMP-31-10-102612	10/26/12	1532-1602	37744	-30	-10			X	X	

Turn Around Time: ☑ Normal ☐ Rush — Specify
Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date: 10/30/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/31/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

CUSTODY SEAL INTACT? Y N NC N/A

05/2/05 Revision

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11/14/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210676B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210676B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/31/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/14/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-12-11.5-102612	Modified ASTM D-1946	9.0 "Hg	15 psi
02A	VMP-25-5-102612	Modified ASTM D-1946	7.5 "Hg	15 psi
03A	VMP-31-5-102612	Modified ASTM D-1946	8.0 "Hg	15 psi
04A	VMP-31-10-102612	Modified ASTM D-1946	9.5 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
05B	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/14/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210676B

Four 1 Liter Summa Canister samples were received on October 31, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-12-11.5-102612

Lab ID#: 1210676B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Methane	0.00029	0.00014 J
Carbon Dioxide	0.029	0.11
Helium	0.14	0.038 J

Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	10
Nitrogen	0.27	86
Methane	0.00027	0.00020 J
Carbon Dioxide	0.027	4.3
Helium	0.13	0.026 J

Client Sample ID: VMP-31-5-102612

Lab ID#: 1210676B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	80
Methane	0.00028	0.00016 J
Carbon Dioxide	0.028	0.47
Helium	0.14	0.062 J

Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	77

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676B-04A

Methane	0.00030	0.00014 J
Carbon Dioxide	0.030	0.57
Helium	0.15	2.6

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Client Sample ID: VMP-12-11.5-102612

Lab ID#: 1210676B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111007**	**Date of Collection:**	**10/26/12 2:31:00 PM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**11/9/12 08:19 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00014 J
Carbon Dioxide	0.029	0.11
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.038 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-25-5-102612

Lab ID#: 1210676B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111008**	**Date of Collection:**	**10/26/12 10:04:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**11/9/12 08:41 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	10
Nitrogen	0.27	86
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.00020 J
Carbon Dioxide	0.027	4.3
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-31-5-102612

Lab ID#: 1210676B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111009**	**Date of Collection:**	**10/26/12 3:12:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**11/9/12 09:03 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00016 J
Carbon Dioxide	0.028	0.47
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.062 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-31-10-102612

Lab ID#: 1210676B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111010**	**Date of Collection:**	**10/26/12 4:02:00 PM**
Dil. Factor:	**2.96**	**Date of Analysis:**	**11/9/12 09:25 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.30	20
Nitrogen	0.30	77
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00014 J
Carbon Dioxide	0.030	0.57
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	2.6

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210676B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111006c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 07:51 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.024 J
Nitrogen	0.10	0.061 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210676B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111005b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 07:24 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1210676B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 06:08 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	101
Ethane	100
Ethene	97
Helium	102

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210676B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9111028**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/10/12 03:35 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	97
Methane	96
Carbon Dioxide	102
Ethane	98
Ethene	95
Helium	100

Container Type: NA - Not Applicable

1210676

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** **Lab Vendor #**	**Please Check Appropriate Box:** ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	**Print Bill To Contact Name:** Robert Mooshegian **PO #:**	**INCIDENT # (ENV SERVICES)** 9 7 2 1 6 6 4 0 **SAP #** 3 4 0 0 5 1	☐ CHECK IF NO INCIDENT # APPLIES DATE: 10/30/12 PAGE: 1 of 1
SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL	GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis M. Currier, C. Kretzer, C. Williams	PHONE NO.: 314-743-4179	E-MAIL: Elizabeth.Kunkel@URSCorp.com
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719				CONSULTANT PROJECT NAME/#: Roxana Soil Vapor
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: Robert.Mooshegian@urs.com		

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-12-11.5-102612	10/26/12	1401-1431	24402	-30	-9			X	X	
02A	VMP-25-5-102612	10/26/12	0934-1004	1737	-30	-10.5			X	X	
03A	VMP-31-5-102612	10/26/12	1443-1512	9371	-30	-9			X	X	
04A	VMP-31-10-102612	10/26/12	1532-1602	37744	-30	-10			X	X	

10/30/12

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/30/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/31/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

CUSTODY SEAL INTACT? Y N NC WH

09/2006 Revision

Roxana Soil Vapor Quarterly – 4th Quarter 2012 Data Review

Laboratory SDG: 1210684A,B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/27/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
VMP-1-38.5-102612	VMP-12-25-102512
VMP-15-21.5-102512	VMP-15-21.5-102512-Dup
VMP-15-25.5-102512	VMP-15-29-102512
VMP-25-21-102612	-

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample VMP-1-38.5-102612 was diluted and re-analyzed to bring the highest level target analytes within the calibration range of the instrument. Results for the highest level target analytes were reported from the re-analysis diluted runs and the remaining compounds were reported from the original analyses. Samples VMP-1-38.5-102612, VMP-12-25-102512, VMP-15-21.5-102512, VMP-15-21.5-102512-Dup, VMP-15-29-102512, and VMP-25-21-102612 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS/LCSD recoveries were outside evaluation criteria. Additionally, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
1210684A-08A	TO-15	Methylene chloride	0.15 ppbv / 0.52 µg/m^3

Blank ID	Parameter	Analyte	Concentration/ Amount
1210684B-08A	Natural gases	Oxygen	0.0069%
1210684B-08A	Natural gases	Nitrogen	0.042%

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/ LCSD RPD	LCS/LCSD /RPD Criteria
1210684A-10A/AA	TO-15	2-Propanol	130/**132**	2	70-130/25
1210684A-10A/AA	TO-15	3-Chloropropene	**134/134**	0	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-15-25.5-102512	TO-15	2-Propanol	**J**
VMP-15-29-102512	TO-15	2-Propanol	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-15-21.5-102512	VMP-15-21.5-102512-Dup

Were field duplicate sample RPDs within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, the laboratory raised reporting limits for 1,2,4-trichlorobenzene results due to instrument linear calibration range difficulties; qualifications are summarized in the following table.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-1-38.5-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-12-25-102512	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-15-21.5-102512	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-15-21.5-102512-Dup	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-15-25.5-102512	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-15-29-102512	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment
VMP-25-21-102612	TO-15	1,2,4-Trichlorobenzene	**UJ**	Professional Judgment

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11/13/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210684A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Revieweed on 12/27/12

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WORK ORDER #: 1210684A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/31/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/13/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-38.5-102612	Modified TO-15	6.8 "Hg	15 psi
01B	VMP-1-38.5-102612	Modified TO-15	6.8 "Hg	15 psi
02A	VMP-12-25-102512	Modified TO-15	9.4 "Hg	15 psi
03A	VMP-15-21.5-102512	Modified TO-15	10.0 "Hg	15 psi
04A	VMP-15-21.5-102512-Dup	Modified TO-15	10.6 "Hg	15 psi
05A	VMP-15-25.5-102512	Modified TO-15	9.6 "Hg	15 psi
06A	VMP-15-29-102512	Modified TO-15	10.4 "Hg	15 psi
07A	VMP-25-21-102612	Modified TO-15	6.4 "Hg	15 psi
08A	Lab Blank	Modified TO-15	NA	NA
08B	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
09B	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA
10AA	LCSD	Modified TO-15	NA	NA
10B	LCS	Modified TO-15	NA	NA
10BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/13/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1210684A

Seven 1 Liter Summa Canister samples were received on October 31, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene on instrument MSD-2 was raised from 2.0 ppbv to 5.0 ppbv.

Due to high-level target compounds, sample VMP-1-38.5-102612 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Dilution was performed on samples VMP-1-38.5-102612, VMP-12-25-102512, VMP-15-21.5-102512, VMP-15-21.5-102512-Dup, VMP-15-29-102512, and VMP-25-21-102612 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01A

DF = 3260

*Use these results only. All other data was reported from the 130x dilution analysis.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	16000	22000	57000	77000
Cyclohexane	16000	4500 J	56000	16000 J
2,2,4-Trimethylpentane	16000	17000	76000	79000
Trichloroethene	16000	1200 J	88000	6300 J
* Butane	65000	1800000	150000	4200000
Isopentane	65000	570000	190000	1700000

Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01B

*Do not use this data. Use all other data

DF = 130

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	650	63 J	2200	220 J
Hexane	650	28000	2300	98000
Cyclohexane	650	5900	2200	20000
2,2,4-Trimethylpentane	650	12000	3000	58000
Benzene	650	220 J	2100	710 J
Heptane	650	4500	2700	18000
* ~~Butane~~	~~2600~~	~~1900000 E~~	~~6200~~	~~4500000 E~~
* ~~Isopentane~~	~~2600~~	~~640000 E~~	~~7700~~	~~1900000 E~~

Client Sample ID: VMP-12-25-102512

Lab ID#: 1210684A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	430	47 J	1500	160 J
Cyclohexane	430	910	1500	3100
2,2,4-Trimethylpentane	430	29000	2000	140000
Benzene	430	150 J	1400	470 J
Butane	1700	1200 J	4100	2900 J
Isopentane	1700	62000	5100	180000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-15-21.5-102512

Lab ID#: 1210684A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	220	73 J	740	250 J
2,2,4-Trimethylpentane	220	24000	1000	110000
Benzene	220	75 J	690	240 J
Trichloroethene	220	52 J	1200	280 J
Butane	870	430 J	2000	1000 J
Isopentane	870	2100	2600	6200

Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	220	46 J	770	160 J
2,2,4-Trimethylpentane	220	24000	1000	110000
Benzene	220	74 J	710	240 J
Trichloroethene	220	52 J	1200	280 J
Butane	890	450 J	2100	1100 J
Isopentane	890	2200	2600	6400

Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.9	34	11	65
2-Propanol	5.9	10 J	14	26 J
2-Butanone (Methyl Ethyl Ketone)	5.9	6.6	18	19
Tetrahydrofuran	1.5	0.47 J	4.4	1.4 J
Cyclohexane	1.5	5.9	5.1	20
2,2,4-Trimethylpentane	1.5	420	6.9	1900
Benzene	1.5	11	4.7	34
4-Methyl-2-pentanone	1.5	34	6.1	140
Toluene	1.5	3.0	5.6	11
m,p-Xylene	1.5	0.93 J	6.4	4.0 J
Styrene	1.5	0.15 J	6.3	0.64 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684A-05A

Cumene	1.5	10	7.3	49
4-Ethyltoluene	1.5	0.35 J	7.3	1.7 J
1,3,5-Trimethylbenzene	1.5	0.31 J	7.3	1.5 J
1,2,4-Trimethylbenzene	1.5	0.59 J	7.3	2.9 J
Butane	5.9	24	14	58
Isopentane	5.9	240	18	720

Client Sample ID: VMP-15-29-102512

Lab ID#: 1210684A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	12	45	23	86
2-Propanol	12	24 J	30	59 J
Hexane	3.1	3.7	11	13
2-Butanone (Methyl Ethyl Ketone)	12	11 J	36	33 J
Tetrahydrofuran	3.1	0.81 J	9.1	2.4 J
Cyclohexane	3.1	24	11	83
2,2,4-Trimethylpentane	3.1	720	14	3400
Benzene	3.1	8.0	9.9	26
4-Methyl-2-pentanone	3.1	56	13	230
Toluene	3.1	4.2	12	16
m,p-Xylene	3.1	0.96 J	13	4.2 J
Styrene	3.1	0.27 J	13	1.2 J
Cumene	3.1	15	15	75
4-Ethyltoluene	3.1	0.47 J	15	2.3 J
1,2,4-Trimethylbenzene	3.1	0.96 J	15	4.7 J
Butane	12	120	29	280
Isopentane	12	720	36	2100

Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	38000	4300 J	130000	15000 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684A-07A

Hexane	38000	580000	130000	2000000
Cyclohexane	38000	410000	130000	1400000
2,2,4-Trimethylpentane	38000	68000	180000	320000
Benzene	38000	15000 J	120000	48000 J
Heptane	38000	84000	150000	350000
Trichloroethene	38000	2600 J	200000	14000 J
Butane	150000	5800000	360000	14000000
Isopentane	150000	6900000	450000	20000000

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* Use these results only. All other data was reported from the 130x dilution analysis.

Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110616**	**Date of Collection:**	**10/26/12 1:45:00 PM**
Dil. Factor:	**3260**	**Date of Analysis:**	**11/6/12 02:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16000	Not Detected	81000	Not Detected
Freon 114	16000	Not Detected	110000	Not Detected
Chloromethane	65000	Not Detected	130000	Not Detected
Vinyl Chloride	16000	Not Detected	42000	Not Detected
1,3-Butadiene	16000	Not Detected	36000	Not Detected
Bromomethane	16000	Not Detected	63000	Not Detected
Chloroethane	65000	Not Detected	170000	Not Detected
Freon 11	16000	Not Detected	92000	Not Detected
Ethanol	65000	Not Detected	120000	Not Detected
Freon 113	16000	Not Detected	120000	Not Detected
1,1-Dichloroethene	16000	Not Detected	65000	Not Detected
Acetone	65000	Not Detected	150000	Not Detected
2-Propanol	65000	Not Detected	160000	Not Detected
Carbon Disulfide	16000	Not Detected	51000	Not Detected
3-Chloropropene	65000	Not Detected	200000	Not Detected
Methylene Chloride	16000	Not Detected	57000	Not Detected
Methyl tert-butyl ether	16000	Not Detected	59000	Not Detected
trans-1,2-Dichloroethene	16000	Not Detected	65000	Not Detected
Hexane	16000	22000	57000	77000
1,1-Dichloroethane	16000	Not Detected	66000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	65000	Not Detected	190000	Not Detected
cis-1,2-Dichloroethene	16000	Not Detected	65000	Not Detected
Tetrahydrofuran	16000	Not Detected	48000	Not Detected
Chloroform	16000	Not Detected	80000	Not Detected
1,1,1-Trichloroethane	16000	Not Detected	89000	Not Detected
Cyclohexane	16000	4500 J	56000	16000 J
Carbon Tetrachloride	16000	Not Detected	100000	Not Detected
2,2,4-Trimethylpentane	16000	17000	76000	79000
Benzene	16000	Not Detected	52000	Not Detected
1,2-Dichloroethane	16000	Not Detected	66000	Not Detected
Heptane	16000	Not Detected	67000	Not Detected
Trichloroethene	16000	1200 J	88000	6300 J
1,2-Dichloropropane	16000	Not Detected	75000	Not Detected
1,4-Dioxane	65000	Not Detected	230000	Not Detected
Bromodichloromethane	16000	Not Detected	110000	Not Detected
cis-1,3-Dichloropropene	16000	Not Detected	74000	Not Detected
4-Methyl-2-pentanone	16000	Not Detected	67000	Not Detected
Toluene	16000	Not Detected	61000	Not Detected
trans-1,3-Dichloropropene	16000	Not Detected	74000	Not Detected
1,1,2-Trichloroethane	16000	Not Detected	89000	Not Detected
Tetrachloroethene	16000	Not Detected	110000	Not Detected
2-Hexanone	65000	Not Detected	270000	Not Detected

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Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110616**	**Date of Collection:**	**10/26/12 1:45:00 PM**
Dil. Factor:	**3260**	**Date of Analysis:**	**11/6/12 02:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	16000	Not Detected	140000	Not Detected
1,2-Dibromoethane (EDB)	16000	Not Detected	120000	Not Detected
Chlorobenzene	16000	Not Detected	75000	Not Detected
Ethyl Benzene	16000	Not Detected	71000	Not Detected
m,p-Xylene	16000	Not Detected	71000	Not Detected
o-Xylene	16000	Not Detected	71000	Not Detected
Styrene	16000	Not Detected	69000	Not Detected
Bromoform	16000	Not Detected	170000	Not Detected
Cumene	16000	Not Detected	80000	Not Detected
1,1,2,2-Tetrachloroethane	16000	Not Detected	110000	Not Detected
Propylbenzene	16000	Not Detected	80000	Not Detected
4-Ethyltoluene	16000	Not Detected	80000	Not Detected
1,3,5-Trimethylbenzene	16000	Not Detected	80000	Not Detected
1,2,4-Trimethylbenzene	16000	Not Detected	80000	Not Detected
1,3-Dichlorobenzene	16000	Not Detected	98000	Not Detected
1,4-Dichlorobenzene	16000	Not Detected	98000	Not Detected
alpha-Chlorotoluene	16000	Not Detected	84000	Not Detected
1,2-Dichlorobenzene	16000	Not Detected	98000	Not Detected
1,2,4-Trichlorobenzene	65000	Not Detected	480000	Not Detected
Hexachlorobutadiene	65000	Not Detected	700000	Not Detected
Butane	65000	1800000	150000	4200000
Isopentane	65000	570000	190000	1700000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01B

EPA METHOD TO-15 GC/MS

File Name:	**14110617**	**Date of Collection:**	**10/26/12 1:45:00 PM**
Dil. Factor:	**130**	**Date of Analysis:**	**11/6/12 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	650	Not Detected	3200	Not Detected
Freon 114	650	Not Detected	4500	Not Detected
Chloromethane	2600	Not Detected	5400	Not Detected
Vinyl Chloride	650	Not Detected	1700	Not Detected
1,3-Butadiene	650	Not Detected	1400	Not Detected
Bromomethane	650	Not Detected	2500	Not Detected
Chloroethane	2600	Not Detected	6900	Not Detected
Freon 11	650	Not Detected	3600	Not Detected
Ethanol	2600	Not Detected	4900	Not Detected
Freon 113	650	Not Detected	5000	Not Detected
1,1-Dichloroethene	650	Not Detected	2600	Not Detected
Acetone	2600	Not Detected	6200	Not Detected
2-Propanol	2600	Not Detected	6400	Not Detected
Carbon Disulfide	650	Not Detected	2000	Not Detected
3-Chloropropene	2600	Not Detected	8100	Not Detected
Methylene Chloride	650	63 J	2200	220 J
Methyl tert-butyl ether	650	Not Detected	2300	Not Detected
trans-1,2-Dichloroethene	650	Not Detected	2600	Not Detected
Hexane	650	28000	2300	98000
1,1-Dichloroethane	650	Not Detected	2600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2600	Not Detected	7700	Not Detected
cis-1,2-Dichloroethene	650	Not Detected	2600	Not Detected
Tetrahydrofuran	650	Not Detected	1900	Not Detected
Chloroform	650	Not Detected	3200	Not Detected
1,1,1-Trichloroethane	650	Not Detected	3500	Not Detected
Cyclohexane	650	5900	2200	20000
Carbon Tetrachloride	650	Not Detected	4100	Not Detected
2,2,4-Trimethylpentane	650	12000	3000	58000
Benzene	650	220 J	2100	710 J
1,2-Dichloroethane	650	Not Detected	2600	Not Detected
Heptane	650	4500	2700	18000
Trichloroethene	650	Not Detected	3500	Not Detected
1,2-Dichloropropane	650	Not Detected	3000	Not Detected
1,4-Dioxane	2600	Not Detected	9400	Not Detected
Bromodichloromethane	650	Not Detected	4400	Not Detected
cis-1,3-Dichloropropene	650	Not Detected	3000	Not Detected
4-Methyl-2-pentanone	650	Not Detected	2700	Not Detected
Toluene	650	Not Detected	2400	Not Detected
trans-1,3-Dichloropropene	650	Not Detected	3000	Not Detected
1,1,2-Trichloroethane	650	Not Detected	3500	Not Detected
Tetrachloroethene	650	Not Detected	4400	Not Detected
2-Hexanone	2600	Not Detected	11000	Not Detected

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Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684A-01B

EPA METHOD TO-15 GC/MS

File Name:	**14110617**	**Date of Collection:**	**10/26/12 1:45:00 PM**
Dil. Factor:	**130**	**Date of Analysis:**	**11/6/12 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	650	Not Detected	5500	Not Detected
1,2-Dibromoethane (EDB)	650	Not Detected	5000	Not Detected
Chlorobenzene	650	Not Detected	3000	Not Detected
Ethyl Benzene	650	Not Detected	2800	Not Detected
m,p-Xylene	650	Not Detected	2800	Not Detected
o-Xylene	650	Not Detected	2800	Not Detected
Styrene	650	Not Detected	2800	Not Detected
Bromoform	650	Not Detected	6700	Not Detected
Cumene	650	Not Detected	3200	Not Detected
1,1,2,2-Tetrachloroethane	650	Not Detected	4500	Not Detected
Propylbenzene	650	Not Detected	3200	Not Detected
4-Ethyltoluene	650	Not Detected	3200	Not Detected
1,3,5-Trimethylbenzene	650	Not Detected	3200	Not Detected
1,2,4-Trimethylbenzene	650	Not Detected	3200	Not Detected
1,3-Dichlorobenzene	650	Not Detected	3900	Not Detected
1,4-Dichlorobenzene	650	Not Detected	3900	Not Detected
alpha-Chlorotoluene	650	Not Detected	3400	Not Detected
1,2-Dichlorobenzene	650	Not Detected	3900	Not Detected
1,2,4-Trichlorobenzene	2600	Not Detected UJ	19000	Not Detected UJ
Hexachlorobutadiene	2600	Not Detected	28000	Not Detected
~~Butane~~	~~2600~~	~~1900000 E~~	~~6200~~	~~4500000 E~~
~~Isopentane~~	~~2600~~	~~640000 E~~	~~7700~~	~~1900000 E~~

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: VMP-12-25-102512

Lab ID#: 1210684A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14110620**	**Date of Collection:**	**10/25/12 3:26:00 PM**
Dil. Factor:	**86.5**	**Date of Analysis:**	**11/6/12 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	430	Not Detected	2100	Not Detected
Freon 114	430	Not Detected	3000	Not Detected
Chloromethane	1700	Not Detected	3600	Not Detected
Vinyl Chloride	430	Not Detected	1100	Not Detected
1,3-Butadiene	430	Not Detected	960	Not Detected
Bromomethane	430	Not Detected	1700	Not Detected
Chloroethane	1700	Not Detected	4600	Not Detected
Freon 11	430	Not Detected	2400	Not Detected
Ethanol	1700	Not Detected	3200	Not Detected
Freon 113	430	Not Detected	3300	Not Detected
1,1-Dichloroethene	430	Not Detected	1700	Not Detected
Acetone	1700	Not Detected	4100	Not Detected
2-Propanol	1700	Not Detected	4200	Not Detected
Carbon Disulfide	430	Not Detected	1300	Not Detected
3-Chloropropene	1700	Not Detected	5400	Not Detected
Methylene Chloride	430	47 J	1500	160 J
Methyl tert-butyl ether	430	Not Detected	1600	Not Detected
trans-1,2-Dichloroethene	430	Not Detected	1700	Not Detected
Hexane	430	Not Detected	1500	Not Detected
1,1-Dichloroethane	430	Not Detected	1800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1700	Not Detected	5100	Not Detected
cis-1,2-Dichloroethene	430	Not Detected	1700	Not Detected
Tetrahydrofuran	430	Not Detected	1300	Not Detected
Chloroform	430	Not Detected	2100	Not Detected
1,1,1-Trichloroethane	430	Not Detected	2400	Not Detected
Cyclohexane	430	910	1500	3100
Carbon Tetrachloride	430	Not Detected	2700	Not Detected
2,2,4-Trimethylpentane	430	29000	2000	140000
Benzene	430	150 J	1400	470 J
1,2-Dichloroethane	430	Not Detected	1800	Not Detected
Heptane	430	Not Detected	1800	Not Detected
Trichloroethene	430	Not Detected	2300	Not Detected
1,2-Dichloropropane	430	Not Detected	2000	Not Detected
1,4-Dioxane	1700	Not Detected	6200	Not Detected
Bromodichloromethane	430	Not Detected	2900	Not Detected
cis-1,3-Dichloropropene	430	Not Detected	2000	Not Detected
4-Methyl-2-pentanone	430	Not Detected	1800	Not Detected
Toluene	430	Not Detected	1600	Not Detected
trans-1,3-Dichloropropene	430	Not Detected	2000	Not Detected
1,1,2-Trichloroethane	430	Not Detected	2400	Not Detected
Tetrachloroethene	430	Not Detected	2900	Not Detected
2-Hexanone	1700	Not Detected	7100	Not Detected

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Client Sample ID: VMP-12-25-102512

Lab ID#: 1210684A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14110620**	**Date of Collection: 10/25/12 3:26:00 PM**	
Dil. Factor:	**86.5**	**Date of Analysis: 11/6/12 04:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	430	Not Detected	3700	Not Detected
1,2-Dibromoethane (EDB)	430	Not Detected	3300	Not Detected
Chlorobenzene	430	Not Detected	2000	Not Detected
Ethyl Benzene	430	Not Detected	1900	Not Detected
m,p-Xylene	430	Not Detected	1900	Not Detected
o-Xylene	430	Not Detected	1900	Not Detected
Styrene	430	Not Detected	1800	Not Detected
Bromoform	430	Not Detected	4500	Not Detected
Cumene	430	Not Detected	2100	Not Detected
1,1,2,2-Tetrachloroethane	430	Not Detected	3000	Not Detected
Propylbenzene	430	Not Detected	2100	Not Detected
4-Ethyltoluene	430	Not Detected	2100	Not Detected
1,3,5-Trimethylbenzene	430	Not Detected	2100	Not Detected
1,2,4-Trimethylbenzene	430	Not Detected	2100	Not Detected
1,3-Dichlorobenzene	430	Not Detected	2600	Not Detected
1,4-Dichlorobenzene	430	Not Detected	2600	Not Detected
alpha-Chlorotoluene	430	Not Detected	2200	Not Detected
1,2-Dichlorobenzene	430	Not Detected	2600	Not Detected
1,2,4-Trichlorobenzene	1700	Not Detected UJ	13000	Not Detected UJ
Hexachlorobutadiene	1700	Not Detected	18000	Not Detected
Butane	1700	1200 J	4100	2900 J
Isopentane	1700	62000	5100	180000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-15-21.5-102512

Lab ID#: 1210684A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14110614**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**43.3**	**Date of Analysis:**	**11/6/12 01:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1500	Not Detected
Chloromethane	870	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	550	Not Detected
1,3-Butadiene	220	Not Detected	480	Not Detected
Bromomethane	220	Not Detected	840	Not Detected
Chloroethane	870	Not Detected	2300	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	870	Not Detected	1600	Not Detected
Freon 113	220	Not Detected	1600	Not Detected
1,1-Dichloroethene	220	Not Detected	860	Not Detected
Acetone	870	Not Detected	2000	Not Detected
2-Propanol	870	Not Detected	2100	Not Detected
Carbon Disulfide	220	Not Detected	670	Not Detected
3-Chloropropene	870	Not Detected	2700	Not Detected
Methylene Chloride	220	Not Detected	750	Not Detected
Methyl tert-butyl ether	220	Not Detected	780	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	860	Not Detected
Hexane	220	Not Detected	760	Not Detected
1,1-Dichloroethane	220	Not Detected	880	Not Detected
2-Butanone (Methyl Ethyl Ketone)	870	Not Detected	2600	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	860	Not Detected
Tetrahydrofuran	220	Not Detected	640	Not Detected
Chloroform	220	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	73 J	740	250 J
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	24000	1000	110000
Benzene	220	75 J	690	240 J
1,2-Dichloroethane	220	Not Detected	880	Not Detected
Heptane	220	Not Detected	890	Not Detected
Trichloroethene	220	52 J	1200	280 J
1,2-Dichloropropane	220	Not Detected	1000	Not Detected
1,4-Dioxane	870	Not Detected	3100	Not Detected
Bromodichloromethane	220	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	980	Not Detected
4-Methyl-2-pentanone	220	Not Detected	890	Not Detected
Toluene	220	Not Detected	820	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	980	Not Detected
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1500	Not Detected
2-Hexanone	870	Not Detected	3500	Not Detected

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Client Sample ID: VMP-15-21.5-102512

Lab ID#: 1210684A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14110614**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**43.3**	**Date of Analysis:**	**11/6/12 01:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	220	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected
Chlorobenzene	220	Not Detected	1000	Not Detected
Ethyl Benzene	220	Not Detected	940	Not Detected
m,p-Xylene	220	Not Detected	940	Not Detected
o-Xylene	220	Not Detected	940	Not Detected
Styrene	220	Not Detected	920	Not Detected
Bromoform	220	Not Detected	2200	Not Detected
Cumene	220	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1100	Not Detected
4-Ethyltoluene	220	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	870	Not Detected UJ	6400	Not Detected UJ
Hexachlorobutadiene	870	Not Detected	9200	Not Detected
Butane	870	430 J	2000	1000 J
Isopentane	870	2100	2600	6200

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14110615**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**44.6**	**Date of Analysis:**	**11/6/12 02:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1600	Not Detected
Chloromethane	890	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	570	Not Detected
1,3-Butadiene	220	Not Detected	490	Not Detected
Bromomethane	220	Not Detected	870	Not Detected
Chloroethane	890	Not Detected	2400	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	890	Not Detected	1700	Not Detected
Freon 113	220	Not Detected	1700	Not Detected
1,1-Dichloroethene	220	Not Detected	880	Not Detected
Acetone	890	Not Detected	2100	Not Detected
2-Propanol	890	Not Detected	2200	Not Detected
Carbon Disulfide	220	Not Detected	690	Not Detected
3-Chloropropene	890	Not Detected	2800	Not Detected
Methylene Chloride	220	Not Detected	770	Not Detected
Methyl tert-butyl ether	220	Not Detected	800	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	880	Not Detected
Hexane	220	Not Detected	780	Not Detected
1,1-Dichloroethane	220	Not Detected	900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	890	Not Detected	2600	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	880	Not Detected
Tetrahydrofuran	220	Not Detected	660	Not Detected
Chloroform	220	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	46 J	770	160 J
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	24000	1000	110000
Benzene	220	74 J	710	240 J
1,2-Dichloroethane	220	Not Detected	900	Not Detected
Heptane	220	Not Detected	910	Not Detected
Trichloroethene	220	52 J	1200	280 J
1,2-Dichloropropane	220	Not Detected	1000	Not Detected
1,4-Dioxane	890	Not Detected	3200	Not Detected
Bromodichloromethane	220	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	220	Not Detected	910	Not Detected
Toluene	220	Not Detected	840	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1500	Not Detected
2-Hexanone	890	Not Detected	3600	Not Detected

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Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14110615**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**44.6**	**Date of Analysis:**	**11/6/12 02:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	220	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected
Chlorobenzene	220	Not Detected	1000	Not Detected
Ethyl Benzene	220	Not Detected	970	Not Detected
m,p-Xylene	220	Not Detected	970	Not Detected
o-Xylene	220	Not Detected	970	Not Detected
Styrene	220	Not Detected	950	Not Detected
Bromoform	220	Not Detected	2300	Not Detected
Cumene	220	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1100	Not Detected
4-Ethyltoluene	220	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	890	Not Detected UJ	6600	Not Detected UJ
Hexachlorobutadiene	890	Not Detected	9500	Not Detected
Butane	890	450 J	2100	1100 J
Isopentane	890	2200	2600	6400

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110117**	**Date of Collection:**	**10/25/12 2:18:00 PM**
Dil. Factor:	**2.97**	**Date of Analysis:**	**11/2/12 12:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	Not Detected	7.3	Not Detected
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	15	Not Detected	31	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	34	11	65
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	15	Not Detected	35	Not Detected
2-Propanol	5.9	10 J	14	26 J
Carbon Disulfide	5.9	Not Detected	18	Not Detected
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	15	Not Detected	52	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	Not Detected	5.2	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	6.6	18	19
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	0.47 J	4.4	1.4 J
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	5.9	5.1	20
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	420	6.9	1900
Benzene	1.5	11	4.7	34
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	Not Detected	6.1	Not Detected
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	34	6.1	140
Toluene	1.5	3.0	5.6	11
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
2-Hexanone	5.9	Not Detected	24	Not Detected

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Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110117**	**Date of Collection:**	**10/25/12 2:18:00 PM**
Dil. Factor:	**2.97**	**Date of Analysis:**	**11/2/12 12:39 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	Not Detected	6.4	Not Detected
m,p-Xylene	1.5	0.93 J	6.4	4.0 J
o-Xylene	1.5	Not Detected	6.4	Not Detected
Styrene	1.5	0.15 J	6.3	0.64 J
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	10	7.3	49
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.3	Not Detected
4-Ethyltoluene	1.5	0.35 J	7.3	1.7 J
1,3,5-Trimethylbenzene	1.5	0.31 J	7.3	1.5 J
1,2,4-Trimethylbenzene	1.5	0.59 J	7.3	2.9 J
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	15	Not Detected UJ	110	Not Detected UJ
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	24	14	58
Isopentane	5.9	240	18	720

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: VMP-15-29-102512

Lab ID#: 1210684A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110119**	**Date of Collection:**	**10/25/12 3:15:00 PM**
Dil. Factor:	**6.18**	**Date of Analysis:**	**11/2/12 08:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.1	Not Detected	15	Not Detected
Freon 114	3.1	Not Detected	22	Not Detected
Chloromethane	31	Not Detected	64	Not Detected
Vinyl Chloride	3.1	Not Detected	7.9	Not Detected
1,3-Butadiene	3.1	Not Detected	6.8	Not Detected
Bromomethane	31	Not Detected	120	Not Detected
Chloroethane	12	Not Detected	33	Not Detected
Freon 11	3.1	Not Detected	17	Not Detected
Ethanol	12	45	23	86
Freon 113	3.1	Not Detected	24	Not Detected
1,1-Dichloroethene	3.1	Not Detected	12	Not Detected
Acetone	31	Not Detected	73	Not Detected
2-Propanol	12	24 J	30	59 J
Carbon Disulfide	12	Not Detected	38	Not Detected
3-Chloropropene	12	Not Detected	39	Not Detected
Methylene Chloride	31	Not Detected	110	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	3.1	Not Detected	12	Not Detected
Hexane	3.1	3.7	11	13
1,1-Dichloroethane	3.1	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	11 J	36	33 J
cis-1,2-Dichloroethene	3.1	Not Detected	12	Not Detected
Tetrahydrofuran	3.1	0.81 J	9.1	2.4 J
Chloroform	3.1	Not Detected	15	Not Detected
1,1,1-Trichloroethane	3.1	Not Detected	17	Not Detected
Cyclohexane	3.1	24	11	83
Carbon Tetrachloride	3.1	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	3.1	720	14	3400
Benzene	3.1	8.0	9.9	26
1,2-Dichloroethane	3.1	Not Detected	12	Not Detected
Heptane	3.1	Not Detected	13	Not Detected
Trichloroethene	3.1	Not Detected	17	Not Detected
1,2-Dichloropropane	3.1	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	44	Not Detected
Bromodichloromethane	3.1	Not Detected	21	Not Detected
cis-1,3-Dichloropropene	3.1	Not Detected	14	Not Detected
4-Methyl-2-pentanone	3.1	56	13	230
Toluene	3.1	4.2	12	16
trans-1,3-Dichloropropene	3.1	Not Detected	14	Not Detected
1,1,2-Trichloroethane	3.1	Not Detected	17	Not Detected
Tetrachloroethene	3.1	Not Detected	21	Not Detected
2-Hexanone	12	Not Detected	51	Not Detected

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Client Sample ID: VMP-15-29-102512

Lab ID#: 1210684A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110119**	**Date of Collection:**	**10/25/12 3:15:00 PM**
Dil. Factor:	**6.18**	**Date of Analysis:**	**11/2/12 08:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.1	Not Detected	26	Not Detected
1,2-Dibromoethane (EDB)	3.1	Not Detected	24	Not Detected
Chlorobenzene	3.1	Not Detected	14	Not Detected
Ethyl Benzene	3.1	Not Detected	13	Not Detected
m,p-Xylene	3.1	0.96 J	13	4.2 J
o-Xylene	3.1	Not Detected	13	Not Detected
Styrene	3.1	0.27 J	13	1.2 J
Bromoform	3.1	Not Detected	32	Not Detected
Cumene	3.1	15	15	75
1,1,2,2-Tetrachloroethane	3.1	Not Detected	21	Not Detected
Propylbenzene	3.1	Not Detected	15	Not Detected
4-Ethyltoluene	3.1	0.47 J	15	2.3 J
1,3,5-Trimethylbenzene	3.1	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	3.1	0.96 J	15	4.7 J
1,3-Dichlorobenzene	3.1	Not Detected	18	Not Detected
1,4-Dichlorobenzene	3.1	Not Detected	18	Not Detected
alpha-Chlorotoluene	3.1	Not Detected	16	Not Detected
1,2-Dichlorobenzene	3.1	Not Detected	18	Not Detected
1,2,4-Trichlorobenzene	31	Not Detected UJ	230	Not Detected UJ
Hexachlorobutadiene	12	Not Detected	130	Not Detected
Butane	12	120	29	280
Isopentane	12	720	36	2100

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684A-07A

EPA METHOD TO-15 GC/MS

File Name:	**14110619**	**Date of Collection:**	**10/26/12 10:49:00 A**
Dil. Factor:	**7560**	**Date of Analysis:**	**11/6/12 03:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	38000	Not Detected	190000	Not Detected
Freon 114	38000	Not Detected	260000	Not Detected
Chloromethane	150000	Not Detected	310000	Not Detected
Vinyl Chloride	38000	Not Detected	97000	Not Detected
1,3-Butadiene	38000	Not Detected	84000	Not Detected
Bromomethane	38000	Not Detected	150000	Not Detected
Chloroethane	150000	Not Detected	400000	Not Detected
Freon 11	38000	Not Detected	210000	Not Detected
Ethanol	150000	Not Detected	280000	Not Detected
Freon 113	38000	Not Detected	290000	Not Detected
1,1-Dichloroethene	38000	Not Detected	150000	Not Detected
Acetone	150000	Not Detected	360000	Not Detected
2-Propanol	150000	Not Detected	370000	Not Detected
Carbon Disulfide	38000	Not Detected	120000	Not Detected
3-Chloropropene	150000	Not Detected	470000	Not Detected
Methylene Chloride	38000	4300 J	130000	15000 J
Methyl tert-butyl ether	38000	Not Detected	140000	Not Detected
trans-1,2-Dichloroethene	38000	Not Detected	150000	Not Detected
Hexane	38000	580000	130000	2000000
1,1-Dichloroethane	38000	Not Detected	150000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	150000	Not Detected	440000	Not Detected
cis-1,2-Dichloroethene	38000	Not Detected	150000	Not Detected
Tetrahydrofuran	38000	Not Detected	110000	Not Detected
Chloroform	38000	Not Detected	180000	Not Detected
1,1,1-Trichloroethane	38000	Not Detected	210000	Not Detected
Cyclohexane	38000	410000	130000	1400000
Carbon Tetrachloride	38000	Not Detected	240000	Not Detected
2,2,4-Trimethylpentane	38000	68000	180000	320000
Benzene	38000	15000 J	120000	48000 J
1,2-Dichloroethane	38000	Not Detected	150000	Not Detected
Heptane	38000	84000	150000	350000
Trichloroethene	38000	2600 J	200000	14000 J
1,2-Dichloropropane	38000	Not Detected	170000	Not Detected
1,4-Dioxane	150000	Not Detected	540000	Not Detected
Bromodichloromethane	38000	Not Detected	250000	Not Detected
cis-1,3-Dichloropropene	38000	Not Detected	170000	Not Detected
4-Methyl-2-pentanone	38000	Not Detected	150000	Not Detected
Toluene	38000	Not Detected	140000	Not Detected
trans-1,3-Dichloropropene	38000	Not Detected	170000	Not Detected
1,1,2-Trichloroethane	38000	Not Detected	210000	Not Detected
Tetrachloroethene	38000	Not Detected	260000	Not Detected
2-Hexanone	150000	Not Detected	620000	Not Detected

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Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684A-07A

EPA METHOD TO-15 GC/MS

File Name:	**14110619**	**Date of Collection:**	**10/26/12 10:49:00 A**
Dil. Factor:	**7560**	**Date of Analysis:**	**11/6/12 03:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	38000	Not Detected	320000	Not Detected
1,2-Dibromoethane (EDB)	38000	Not Detected	290000	Not Detected
Chlorobenzene	38000	Not Detected	170000	Not Detected
Ethyl Benzene	38000	Not Detected	160000	Not Detected
m,p-Xylene	38000	Not Detected	160000	Not Detected
o-Xylene	38000	Not Detected	160000	Not Detected
Styrene	38000	Not Detected	160000	Not Detected
Bromoform	38000	Not Detected	390000	Not Detected
Cumene	38000	Not Detected	180000	Not Detected
1,1,2,2-Tetrachloroethane	38000	Not Detected	260000	Not Detected
Propylbenzene	38000	Not Detected	180000	Not Detected
4-Ethyltoluene	38000	Not Detected	180000	Not Detected
1,3,5-Trimethylbenzene	38000	Not Detected	180000	Not Detected
1,2,4-Trimethylbenzene	38000	Not Detected	180000	Not Detected
1,3-Dichlorobenzene	38000	Not Detected	230000	Not Detected
1,4-Dichlorobenzene	38000	Not Detected	230000	Not Detected
alpha-Chlorotoluene	38000	Not Detected	200000	Not Detected
1,2-Dichlorobenzene	38000	Not Detected	230000	Not Detected
1,2,4-Trichlorobenzene	150000	Not Detected UJ	1100000	Not Detected UJ
Hexachlorobutadiene	150000	Not Detected	1600000	Not Detected
Butane	150000	5800000	360000	14000000
Isopentane	150000	6900000	450000	20000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210684A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110108d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.15 J	17	0.52 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1210684A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110108d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210684A-08B

EPA METHOD TO-15 GC/MS

File Name:	**14110606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 10:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210684A-08B

EPA METHOD TO-15 GC/MS

File Name:	**14110606a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 10:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1210684A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:30 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	102
Chloromethane	111
Vinyl Chloride	102
1,3-Butadiene	100
Bromomethane	120
Chloroethane	111
Freon 11	90
Ethanol	128
Freon 113	91
1,1-Dichloroethene	96
Acetone	112
2-Propanol	127
Carbon Disulfide	93
3-Chloropropene	106
Methylene Chloride	100
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	93
Hexane	91
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	93
Tetrahydrofuran	98
Chloroform	92
1,1,1-Trichloroethane	93
Cyclohexane	91
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	89
Benzene	91
1,2-Dichloroethane	95
Heptane	95
Trichloroethene	96
1,2-Dichloropropane	96
1,4-Dioxane	107
Bromodichloromethane	101
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	105
Toluene	91
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	96
Tetrachloroethene	94
2-Hexanone	110

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Client Sample ID: CCV

Lab ID#: 1210684A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 09:30 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	99
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	88
o-Xylene	91
Styrene	94
Bromoform	107
Cumene	91
1,1,2,2-Tetrachloroethane	99
Propylbenzene	91
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	85
Butane	105
Isopentane	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1210684A-09B

EPA METHOD TO-15 GC/MS

File Name:	**14110602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 08:36 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	99
Chloromethane	98
Vinyl Chloride	89
1,3-Butadiene	82
Bromomethane	82
Chloroethane	91
Freon 11	103
Ethanol	98
Freon 113	97
1,1-Dichloroethene	100
Acetone	95
2-Propanol	87
Carbon Disulfide	96
3-Chloropropene	87
Methylene Chloride	102
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	97
Hexane	90
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	98
Tetrahydrofuran	94
Chloroform	98
1,1,1-Trichloroethane	94
Cyclohexane	90
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	94
Benzene	97
1,2-Dichloroethane	102
Heptane	90
Trichloroethene	96
1,2-Dichloropropane	96
1,4-Dioxane	92
Bromodichloromethane	102
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	86
Toluene	94
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	98
Tetrachloroethene	97
2-Hexanone	84

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Client Sample ID: CCV

Lab ID#: 1210684A-09B

EPA METHOD TO-15 GC/MS

File Name:	**14110602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 08:36 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	100
Chlorobenzene	96
Ethyl Benzene	91
m,p-Xylene	92
o-Xylene	92
Styrene	92
Bromoform	111
Cumene	96
1,1,2,2-Tetrachloroethane	100
Propylbenzene	99
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	105
Butane	78
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCS

Lab ID#: 1210684A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:17 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	122
Vinyl Chloride	108
1,3-Butadiene	104
Bromomethane	127
Chloroethane	117
Freon 11	95
Ethanol	129
Freon 113	99
1,1-Dichloroethene	117
Acetone	113
2-Propanol	130
Carbon Disulfide	128
3-Chloropropene	134 Q
Methylene Chloride	114
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	108
Hexane	93
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	98
Tetrahydrofuran	98
Chloroform	98
1,1,1-Trichloroethane	98
Cyclohexane	98
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	93
Benzene	99
1,2-Dichloroethane	104
Heptane	102
Trichloroethene	104
1,2-Dichloropropane	101
1,4-Dioxane	105
Bromodichloromethane	108
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	109
Toluene	98
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	102
Tetrachloroethene	100
2-Hexanone	111

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Client Sample ID: LCS

Lab ID#: 1210684A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:17 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	107
Chlorobenzene	100
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	104
Styrene	110
Bromoform	109
Cumene	104
1,1,2,2-Tetrachloroethane	108
Propylbenzene	108
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	98
Butane	107
Isopentane	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1210684A-10AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:53 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	105
Chloromethane	120
Vinyl Chloride	107
1,3-Butadiene	102
Bromomethane	128
Chloroethane	119
Freon 11	95
Ethanol	128
Freon 113	100
1,1-Dichloroethene	118
Acetone	116
2-Propanol	132 Q
Carbon Disulfide	129
3-Chloropropene	134 Q
Methylene Chloride	116
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	110
Hexane	94
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	100
Tetrahydrofuran	101
Chloroform	100
1,1,1-Trichloroethane	99
Cyclohexane	98
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	96
Benzene	97
1,2-Dichloroethane	102
Heptane	102
Trichloroethene	102
1,2-Dichloropropane	100
1,4-Dioxane	103
Bromodichloromethane	106
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	107
Toluene	96
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	112

Client Sample ID: LCSD

Lab ID#: 1210684A-10AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2110104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/12 10:53 AM**	

Compound	%Recovery
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	105
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	101
Styrene	105
Bromoform	109
Cumene	101
1,1,2,2-Tetrachloroethane	108
Propylbenzene	104
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	94
Butane	108
Isopentane	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1210684A-10B

EPA METHOD TO-15 GC/MS

File Name:	**14110603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 08:57 AM**	

Compound	%Recovery
Freon 12	109
Freon 114	101
Chloromethane	102
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	84
Chloroethane	105
Freon 11	105
Ethanol	85
Freon 113	98
1,1-Dichloroethene	104
Acetone	98
2-Propanol	88
Carbon Disulfide	119
3-Chloropropene	99
Methylene Chloride	103
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	109
Hexane	89
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	99
Tetrahydrofuran	88
Chloroform	99
1,1,1-Trichloroethane	97
Cyclohexane	92
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	93
Benzene	98
1,2-Dichloroethane	105
Heptane	88
Trichloroethene	98
1,2-Dichloropropane	98
1,4-Dioxane	88
Bromodichloromethane	101
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	84
Toluene	94
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	99
Tetrachloroethene	95
2-Hexanone	86

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Client Sample ID: LCS

Lab ID#: 1210684A-10B

EPA METHOD TO-15 GC/MS

File Name:	**14110603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 08:57 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	101
Chlorobenzene	97
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	92
Styrene	93
Bromoform	106
Cumene	98
1,1,2,2-Tetrachloroethane	102
Propylbenzene	101
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	113
Butane	76
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1210684A-10BB

EPA METHOD TO-15 GC/MS

File Name:	**14110604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 09:24 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	100
Chloromethane	102
Vinyl Chloride	89
1,3-Butadiene	81
Bromomethane	90
Chloroethane	104
Freon 11	107
Ethanol	96
Freon 113	98
1,1-Dichloroethene	108
Acetone	98
2-Propanol	88
Carbon Disulfide	118
3-Chloropropene	99
Methylene Chloride	102
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	109
Hexane	90
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	98
Tetrahydrofuran	90
Chloroform	99
1,1,1-Trichloroethane	97
Cyclohexane	93
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	94
Benzene	97
1,2-Dichloroethane	103
Heptane	90
Trichloroethene	97
1,2-Dichloropropane	96
1,4-Dioxane	89
Bromodichloromethane	101
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	86
Toluene	93
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	99
Tetrachloroethene	97
2-Hexanone	86

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Client Sample ID: LCSD
Lab ID#: 1210684A-10BB
EPA METHOD TO-15 GC/MS

File Name:	**14110604**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 09:24 AM**

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	101
Chlorobenzene	98
Ethyl Benzene	95
m,p-Xylene	96
o-Xylene	94
Styrene	94
Bromoform	108
Cumene	99
1,1,2,2-Tetrachloroethane	104
Propylbenzene	102
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	113
Butane	74
Isopentane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

1210684

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Soil Vapor** **Project # 21562735.00014** Lab Vandor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Robert Mooshagian PO #:	INCIDENT # (ENV SERVICES): 9721664 0 SAP #: 340061

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10/30/12

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION	LOG CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis; M. Currier, C. Kretzer, C. Williams	PHONE NO.: 314-743-4179
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719			E-MAIL: Elizabeth.Kunkel@URSCorp.com
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: Robert.Mooshagian@urs.com	GLOBAL ID NO.: CONSULTANT PROJECT NAME#: Roxana Soil Vapor

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1945 + Helium	ASTM D-1946
01A	VMP-1-38.5-102612	10/26/12	1317-1345	3053	-30	-8.5			X	X	
02A	VMP-12-25-102512	10/25/12	1456-1526	15752	-30	-10			X	X	
03A	VMP-15-21.5-102512	10/25/12	1134-1204	36402	-30	-10			X	X	
04A	VMP-15-21.5-102512-Dup	10/25/12	1134-1204	34578	-29.5	-10			X	X	
05A	VMP-15-25.5-102512	10/25/12	1346-1418	100188	-30	-9.5			X	X	
06A	VMP-15-29-102512	10/25/12	1443-1515	36572	-30	-10.5			X	X	
07A	VMP-25-21-102612	10/26/12	1022-1049	36535	-30	-8.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE Canister 37404. Contains sample with high FID, but sample was needlessly taken.

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 10/30/12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) 10/31/12 0940	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

CUSTODY SEAL INTACT? Y N NC N/A

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11/14/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562735.00014
Workorder #: 1210684B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 10/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 12/27/12

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WORK ORDER #: 1210684B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	21562735.00013
FAX:		**PROJECT #**	21562735.00014 Roxana Soil Vapor
DATE RECEIVED:	10/31/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/14/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1-38.5-102612	Modified ASTM D-1946	6.8 "Hg	15 psi
02A	VMP-12-25-102512	Modified ASTM D-1946	9.4 "Hg	15 psi
03A	VMP-15-21.5-102512	Modified ASTM D-1946	10.0 "Hg	15 psi
04A	VMP-15-21.5-102512-Dup	Modified ASTM D-1946	10.6 "Hg	15 psi
05A	VMP-15-25.5-102512	Modified ASTM D-1946	9.6 "Hg	15 psi
06A	VMP-15-29-102512	Modified ASTM D-1946	10.4 "Hg	15 psi
07A	VMP-25-21-102612	Modified ASTM D-1946	6.4 "Hg	15 psi
08A	Lab Blank	Modified ASTM D-1946	NA	NA
08B	Lab Blank	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA	NA
09AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/14/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1210684B

Seven 1 Liter Summa Canister samples were received on October 31, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Sample VMP-15-25.5-102512 did not pass the instrument leak check, indicating a possible leak in the sample container. As a result, the sample was loaded using a syringe rather than using a direct sample loop introduction technique. Results for Nitrogen and Oxygen acquired using a syringe load may not be accurate and are reported as estimated.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	76
Methane	0.00026	1.8
Carbon Dioxide	0.026	0.29
Ethane	0.0026	0.00068 J
Helium	0.13	1.2

Client Sample ID: VMP-12-25-102512

Lab ID#: 1210684B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.8
Nitrogen	0.29	85
Methane	0.00029	0.92
Carbon Dioxide	0.029	12
Helium	0.15	0.055 J

Client Sample ID: VMP-15-21.5-102512

Lab ID#: 1210684B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.4
Nitrogen	0.30	81
Methane	0.00030	1.3
Carbon Dioxide	0.030	16
Ethane	0.0030	0.00060 J

Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	1.6

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684B-04A

Nitrogen	0.31	82
Methane	0.00031	1.4
Carbon Dioxide	0.031	15
Ethane	0.0031	0.00063 J

Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	25 J
Nitrogen	0.37	71 J
Methane	0.00037	0.0077
Carbon Dioxide	0.037	3.2
Helium	0.18	0.62

Client Sample ID: VMP-15-29-102512

Lab ID#: 1210684B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	16
Nitrogen	0.31	79
Methane	0.00031	0.015
Carbon Dioxide	0.031	3.4
Helium	0.15	1.6

Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.4
Nitrogen	0.26	41
Methane	0.00026	39
Carbon Dioxide	0.026	15
Ethane	0.0026	0.024

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Client Sample ID: VMP-1-38.5-102612

Lab ID#: 1210684B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110549**	**Date of Collection:**	**10/26/12 1:45:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**11/6/12 08:47 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	76
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	1.8
Carbon Dioxide	0.026	0.29
Ethane	0.0026	0.00068 J
Ethene	0.0026	Not Detected
Helium	0.13	1.2

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-12-25-102512

Lab ID#: 1210684B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110550**	**Date of Collection:**	**10/25/12 3:26:00 PM**
Dil. Factor:	**2.94**	**Date of Analysis:**	**11/6/12 09:10 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.8
Nitrogen	0.29	85
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.92
Carbon Dioxide	0.029	12
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.15	0.055 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-15-21.5-102512

Lab ID#: 1210684B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110544**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**3.03**	**Date of Analysis:**	**11/5/12 09:47 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.4
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	1.3
Carbon Dioxide	0.030	16
Ethane	0.0030	0.00060 J
Ethene	0.0030	Not Detected
Helium	0.15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-15-21.5-102512-Dup

Lab ID#: 1210684B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110545**	**Date of Collection:**	**10/25/12 12:04:00 P**
Dil. Factor:	**3.12**	**Date of Analysis:**	**11/5/12 10:22 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	1.6
Nitrogen	0.31	82
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	1.4
Carbon Dioxide	0.031	15
Ethane	0.0031	0.00063 J
Ethene	0.0031	Not Detected
Helium	0.16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-15-25.5-102512

Lab ID#: 1210684B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110547**	**Date of Collection:**	**10/25/12 2:18:00 PM**
Dil. Factor:	**3.71**	**Date of Analysis:**	**11/6/12 07:50 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.37	25 J
Nitrogen	0.37	71 J
Carbon Monoxide	0.037	Not Detected
Methane	0.00037	0.0077
Carbon Dioxide	0.037	3.2
Ethane	0.0037	Not Detected
Ethene	0.0037	Not Detected
Helium	0.18	0.62

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-15-29-102512

Lab ID#: 1210684B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110546**	**Date of Collection:**	**10/25/12 3:15:00 PM**
Dil. Factor:	**3.09**	**Date of Analysis:**	**11/6/12 06:48 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	16
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.015
Carbon Dioxide	0.031	3.4
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.15	1.6

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-25-21-102612

Lab ID#: 1210684B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110548**	**Date of Collection:**	**10/26/12 10:49:00 A**
Dil. Factor:	**2.57**	**Date of Analysis:**	**11/6/12 08:23 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.4
Nitrogen	0.26	41
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	39
Carbon Dioxide	0.026	15
Ethane	0.0026	0.024
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1210684B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110532a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/5/12 03:23 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.0069 J
Nitrogen	0.10	0.042 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1210684B-08B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110530b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/5/12 02:12 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210684B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110529**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/5/12 01:45 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	103
Methane	98
Carbon Dioxide	101
Ethane	100
Ethene	97
Helium	101

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1210684B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110553**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/6/12 10:41 AM**

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	102
Methane	100
Carbon Dioxide	101
Ethane	101
Ethene	98
Helium	101

Container Type: NA - Not Applicable

1210684

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562735.00014
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshagian
PO. #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/30/12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJ. MANAGER (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Soil Vapor
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
M. Currier, C. Kretzer, C. Williams
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Robert.Mooshegian@urs.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-1-38.5-102612	10/26/12	1317-1345	3053	-30	-8.5			X	X	
02A	VMP-12-25-102512	10/25/12	1456-1526	15752	-30	-10			X	X	
03A	VMP-15-21.5-102512	10/25/12	1134-1204	36402	-30	-10			X	X	
04A	VMP-15-21.5-102512-Dup	10/25/12	1134-1204	34578	-29.5	-10			X	X	
05A	VMP-15-25.5-102512	10/25/12	1346-1418	100188	-30	-9.5			X	X	
06A	VMP-15-29-102512	10/25/12	1443-1515	36572	-30	-10.5			X	X	
07A	VMP-25-21-102612	10/26/12	1022-1049	36535	-30	-8.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP
- DO NOT ANALYZE Canister 37404. Contains sample with high FID, but sample was needlessly taken.

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	10/30/12	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	#12 10/31/12 0940		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

CUSTODY SEAL INTACT? Y N NO N/A

SVE System O&M 2012 Data Review

Laboratory SDG: 1211159A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/3/2013

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification
EXH-SVE-10252012

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-102512 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in the ASTM D-1945 method blank. Sample EXH-SVE-102512 was analyzed for TO-15 VOCs one day outside the requested 14-day hold time, natural gases two days outside the requested 14-day hold time, and TPH six days outside the requested 14-day hold time. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes, however sample EXH-SVE-102512 was analyzed for TO-15 VOCs one day outside the requested 14-day hold time, natural gases two days outside the requested 14-day hold time, and TPH six days outside the requested 14-day hold time, but within the required 30-day hold time for these methods. No qualification of data was required.

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1211159B-02A	ASTM D-1945	Oxygen	0.024 %
1211159B-02A	ASTM D-1945	Nitrogen	0.061 %

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

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11/26/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1211159A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 11/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/3/2013

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WORK ORDER #: 1211159A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	11/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/26/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-10252012	Modified TO-15	11.0 "Hg	15 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Mayo

Technical Director

DATE: 11/26/12

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1211159A

One 1 Liter Summa Canister sample was received on November 08, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sample EXH-SVE-10252012 was analyzed past the project specified 14-day hold time, but within the method required 30-day hold time.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-10252012 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	640	130 J	1500	300 J
Hexane	160	3700	560	13000
Cyclohexane	160	840	550	2900
2,2,4-Trimethylpentane	160	2900	740	13000
Benzene	160	580	510	1900
Heptane	160	700	650	2900
Toluene	160	210	600	790
Ethyl Benzene	160	42 J	690	180 J
m,p-Xylene	160	74 J	690	320 J
o-Xylene	160	17 J	690	74 J
Butane	640	13000	1500	31000
Isopentane	640	19000	1900	55000

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Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110914**	**Date of Collection:**	**10/25/12 2:01:00 PM**
Dil. Factor:	**31.9**	**Date of Analysis:**	**11/9/12 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	160	Not Detected	790	Not Detected
Freon 114	160	Not Detected	1100	Not Detected
Chloromethane	640	Not Detected	1300	Not Detected
Vinyl Chloride	160	Not Detected	410	Not Detected
1,3-Butadiene	160	Not Detected	350	Not Detected
Bromomethane	160	Not Detected	620	Not Detected
Chloroethane	640	Not Detected	1700	Not Detected
Freon 11	160	Not Detected	900	Not Detected
Ethanol	640	Not Detected	1200	Not Detected
Freon 113	160	Not Detected	1200	Not Detected
1,1-Dichloroethene	160	Not Detected	630	Not Detected
Acetone	640	130 J	1500	300 J
2-Propanol	640	Not Detected	1600	Not Detected
Carbon Disulfide	160	Not Detected	500	Not Detected
3-Chloropropene	640	Not Detected	2000	Not Detected
Methylene Chloride	160	Not Detected	550	Not Detected
Methyl tert-butyl ether	160	Not Detected	580	Not Detected
trans-1,2-Dichloroethene	160	Not Detected	630	Not Detected
Hexane	160	3700	560	13000
1,1-Dichloroethane	160	Not Detected	640	Not Detected
2-Butanone (Methyl Ethyl Ketone)	640	Not Detected	1900	Not Detected
cis-1,2-Dichloroethene	160	Not Detected	630	Not Detected
Tetrahydrofuran	160	Not Detected	470	Not Detected
Chloroform	160	Not Detected	780	Not Detected
1,1,1-Trichloroethane	160	Not Detected	870	Not Detected
Cyclohexane	160	840	550	2900
Carbon Tetrachloride	160	Not Detected	1000	Not Detected
2,2,4-Trimethylpentane	160	2900	740	13000
Benzene	160	580	510	1900
1,2-Dichloroethane	160	Not Detected	640	Not Detected
Heptane	160	700	650	2900
Trichloroethene	160	Not Detected	860	Not Detected
1,2-Dichloropropane	160	Not Detected	740	Not Detected
1,4-Dioxane	640	Not Detected	2300	Not Detected
Bromodichloromethane	160	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	160	Not Detected	720	Not Detected
4-Methyl-2-pentanone	160	Not Detected	650	Not Detected
Toluene	160	210	600	790
trans-1,3-Dichloropropene	160	Not Detected	720	Not Detected
1,1,2-Trichloroethane	160	Not Detected	870	Not Detected
Tetrachloroethene	160	Not Detected	1100	Not Detected
2-Hexanone	640	Not Detected	2600	Not Detected

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Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110914**	**Date of Collection:**	**10/25/12 2:01:00 PM**
Dil. Factor:	**31.9**	**Date of Analysis:**	**11/9/12 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	160	Not Detected	1400	Not Detected
1,2-Dibromoethane (EDB)	160	Not Detected	1200	Not Detected
Chlorobenzene	160	Not Detected	730	Not Detected
Ethyl Benzene	160	42 J	690	180 J
m,p-Xylene	160	74 J	690	320 J
o-Xylene	160	17 J	690	74 J
Styrene	160	Not Detected	680	Not Detected
Bromoform	160	Not Detected	1600	Not Detected
Cumene	160	Not Detected	780	Not Detected
1,1,2,2-Tetrachloroethane	160	Not Detected	1100	Not Detected
Propylbenzene	160	Not Detected	780	Not Detected
4-Ethyltoluene	160	Not Detected	780	Not Detected
1,3,5-Trimethylbenzene	160	Not Detected	780	Not Detected
1,2,4-Trimethylbenzene	160	Not Detected	780	Not Detected
1,3-Dichlorobenzene	160	Not Detected	960	Not Detected
1,4-Dichlorobenzene	160	Not Detected	960	Not Detected
alpha-Chlorotoluene	160	Not Detected	820	Not Detected
1,2-Dichlorobenzene	160	Not Detected	960	Not Detected
1,2,4-Trichlorobenzene	640	Not Detected	4700	Not Detected
Hexachlorobutadiene	640	Not Detected	6800	Not Detected
Butane	640	13000	1500	31000
Isopentane	640	19000	1900	55000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1211159A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14110906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 09:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1211159A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14110906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 09:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV
Lab ID#: 1211159A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14110902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 08:18 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	98
Chloromethane	96
Vinyl Chloride	85
1,3-Butadiene	78
Bromomethane	79
Chloroethane	81
Freon 11	101
Ethanol	95
Freon 113	96
1,1-Dichloroethene	94
Acetone	91
2-Propanol	82
Carbon Disulfide	91
3-Chloropropene	80
Methylene Chloride	100
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	93
Hexane	85
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	93
Tetrahydrofuran	90
Chloroform	93
1,1,1-Trichloroethane	91
Cyclohexane	86
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	89
Benzene	96
1,2-Dichloroethane	103
Heptane	88
Trichloroethene	96
1,2-Dichloropropane	95
1,4-Dioxane	87
Bromodichloromethane	100
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	82
Toluene	94
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	96
Tetrachloroethene	95
2-Hexanone	80

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Client Sample ID: CCV
Lab ID#: 1211159A-03A
EPA METHOD TO-15 GC/MS

File Name:	**14110902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 08:18 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	97
Chlorobenzene	95
Ethyl Benzene	90
m,p-Xylene	91
o-Xylene	89
Styrene	92
Bromoform	110
Cumene	94
1,1,2,2-Tetrachloroethane	101
Propylbenzene	97
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	111
Butane	77
Isopentane	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS
Lab ID#: 1211159A-04A
EPA METHOD TO-15 GC/MS

File Name:	**14110903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 08:40 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	99
Chloromethane	98
Vinyl Chloride	86
1,3-Butadiene	77
Bromomethane	88
Chloroethane	103
Freon 11	103
Ethanol	80
Freon 113	96
1,1-Dichloroethene	101
Acetone	95
2-Propanol	83
Carbon Disulfide	114
3-Chloropropene	96
Methylene Chloride	97
Methyl tert-butyl ether	81
trans-1,2-Dichloroethene	104
Hexane	85
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	95
Tetrahydrofuran	84
Chloroform	96
1,1,1-Trichloroethane	94
Cyclohexane	88
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	88
Benzene	96
1,2-Dichloroethane	103
Heptane	87
Trichloroethene	97
1,2-Dichloropropane	95
1,4-Dioxane	86
Bromodichloromethane	100
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	80
Toluene	93
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	96
Tetrachloroethene	94
2-Hexanone	80

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Client Sample ID: LCS
Lab ID#: 1211159A-04A
EPA METHOD TO-15 GC/MS

File Name:	**14110903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 08:40 AM**	

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	97
Chlorobenzene	96
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	88
Styrene	91
Bromoform	105
Cumene	96
1,1,2,2-Tetrachloroethane	100
Propylbenzene	99
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	112
Butane	74
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD
Lab ID#: 1211159A-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14110904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 09:00 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	99
Chloromethane	99
Vinyl Chloride	86
1,3-Butadiene	78
Bromomethane	82
Chloroethane	98
Freon 11	102
Ethanol	90
Freon 113	95
1,1-Dichloroethene	101
Acetone	95
2-Propanol	83
Carbon Disulfide	115
3-Chloropropene	93
Methylene Chloride	100
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	104
Hexane	85
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	96
Tetrahydrofuran	85
Chloroform	96
1,1,1-Trichloroethane	94
Cyclohexane	88
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	89
Benzene	97
1,2-Dichloroethane	102
Heptane	87
Trichloroethene	96
1,2-Dichloropropane	95
1,4-Dioxane	87
Bromodichloromethane	101
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	95
Tetrachloroethene	94
2-Hexanone	81

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Client Sample ID: LCSD
Lab ID#: 1211159A-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14110904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 09:00 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	99
Chlorobenzene	95
Ethyl Benzene	89
m,p-Xylene	92
o-Xylene	89
Styrene	90
Bromoform	106
Cumene	95
1,1,2,2-Tetrachloroethane	102
Propylbenzene	99
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	117
Butane	74
Isopentane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

1211159

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 7-Nov-12

PAGE: 1 of 1

PO #

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

CDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: elizabeth.kunkel@urs.com

CONSULTANT PROJECT NUMBER: Roxana SVE O&M

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: dave.palmer@urs.com

SAMPLER NAME(S) (Print): S. Wipfler, M. Currier

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-10252012	10/25/12	1401	3040	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	11/7/12	1700
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		11/8/12	0950
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NOT N/A

Fedex

02/2/00 Revision

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11/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1211159B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 11/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on
1/3/2013

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WORK ORDER #: 1211159B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	11/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-10252012	Modified ASTM D-1945	11.0 "Hg	15 psi
02A	Lab Blank	Modified ASTM D-1945	NA	NA
02B	Lab Blank	Modified ASTM D-1945	NA	NA
03A	LCS	Modified ASTM D-1945	NA	NA
03AA	LCSD	Modified ASTM D-1945	NA	NA
03B	LCS	Modified ASTM D-1945	NA	NA
03BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1211159B

One 1 Liter Summa Canister sample was received on November 08, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	19
Nitrogen	0.32	80
Methane	0.00032	0.044
Carbon Dioxide	0.032	1.2
Ethene	0.0032	0.00015 J
Isobutane	0.0032	0.00019 J
Butane	0.0032	0.0016 J
Isopentane	0.0032	0.0021 J
Pentane	0.0032	0.00076 J
C6+	0.032	0.0047 J

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Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111020**	**Date of Collection:**	**10/25/12 2:01:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**11/10/12 11:40 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	19
Nitrogen	0.32	80
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.044
Carbon Dioxide	0.032	1.2
Ethane	0.0032	Not Detected
Ethene	0.0032	0.00015 J
Acetylene	0.0032	Not Detected
Propane	0.0032	Not Detected
Isobutane	0.0032	0.00019 J
Butane	0.0032	0.0016 J
Neopentane	0.0032	Not Detected
Isopentane	0.0032	0.0021 J
Pentane	0.0032	0.00076 J
C6+	0.032	0.0047 J
Hydrogen	0.032	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.84

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1211159B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111006c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 07:51 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.024 J
Nitrogen	0.10	0.061 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1211159B-02B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111005b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 07:24 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1211159B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 06:08 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	101
Ethane	100
Ethene	97
Acetylene	98
Propane	102
Isobutane	103
Butane	101
Neopentane	102
Isopentane	100
Pentane	100
C6+	100

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1211159B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111028**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/10/12 03:35 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	97
Methane	96
Carbon Dioxide	102
Ethane	98
Ethene	95
Acetylene	96
Propane	100
Isobutane	102
Butane	100
Neopentane	101
Isopentane	99
Pentane	99
C6+	99

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1211159B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111004b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/9/12 07:02 PM**	

Compound	%Recovery
Hydrogen	97

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1211159B-03BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9111027b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/10/12 03:12 PM**	

Compound	%Recovery
Hydrogen	110

Container Type: NA - Not Applicable

1211159

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7-Nov-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wipfler, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	EXH-SVE-10252012	10/25/12	1401	3040	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush Specify
Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	11/7/12	1700
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		11/8/12	0950
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? (Y) N NONE N/A

Fedex

03/2/00 Revision

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11/16/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1211159C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 11/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/3/2013

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WORK ORDER #: 1211159C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	11/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/16/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-10252012	Modified TO-3	11.0 "Hg	15 psi
02A	Lab Blank	Modified TO-3	NA	NA
03A	LCS	Modified TO-3	NA	NA
03AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/16/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1211159C

One 1 Liter Summa Canister sample was received on November 08, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.32	1.3	150	610

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Client Sample ID: EXH-SVE-10252012

Lab ID#: 1211159C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d111413**	**Date of Collection:**	**10/25/12 2:01:00 PM**
Dil. Factor:	**12.8**	**Date of Analysis:**	**11/14/12 07:36 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.32	1.3	150	610

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	127	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1211159C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d111404a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/12 11:23 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1211159C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d111402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/12 09:33 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	97	75-150

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1211159C-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d111414**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/12 08:30 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	99	75-150

1211159

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 7-Nov-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
CDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wipfler, M. Carrier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
04	EXH-SVE-10252012	10/25/12	1401	3040	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify
Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	11/7/12	1700
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	B Whitehead	11/8/12	0950
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? Y N NOK N/A

7-day

02/00 Revision

SVE System O&M 2012 Data Review

Laboratory SDG: 1212154A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/3/2013

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-113012	MainHeader-SVE-113012
EXH-SVE-120312	EXH-SVE-120412
EXH-SVE-120512	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples EXH-SVE-113012, MainHeader-SVE-113012, EXH-SVE-120312, and EXH-SVE-120512 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-3 surrogate fluorobenzene was outside evaluation criteria in samples MainHeader-SVE-113012 and EXH-SVE-120312. TO-15 CCV recovery for hexachlorobutadiene was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1212154A-06A	TO-15	Bromomethane	0.69 ppbv / 2.7 µg/m^3
1212154A-06A	TO-15	Carbon disulfide	0.38 ppbv / 1.2 µg/m^3
1212154A-06A	TO-15	Methylene chloride	0.25 ppbv / 0.87 µg/m^3
1212154A-06A	TO-15	trans-1,3-Dichloropropene	0.20 ppbv / 0.93 µg/m^3
1212154A-06A	TO-15	Tetrachloroethene	0.073 ppbv / 0.50 µg/m^3
1212154A-06A	TO-15	1,2-Dibromoethane (EDB)	0.15 ppbv / 1.2 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1212154A-06A	TO-15	Chlorobenzene	0.15 ppbv / 0.69 µg/m^3
1212154A-06A	TO-15	m,p-Xylene	0.14 ppbv / 0.62 µg/m^3
1212154A-06A	TO-15	o-Xylene	0.17 ppbv / 0.73 µg/m^3
1212154A-06A	TO-15	Styrene	0.098 ppbv / 0.42 µg/m^3
1212154A-06A	TO-15	Cumene	0.11 ppbv / 0.53 µg/m^3
1212154A-06A	TO-15	1,1,2,2-Tetrachloroethane	0.22 ppbv / 1.5 µg/m^3
1212154A-06A	TO-15	Propylbenzene	0.17 ppbv / 0.85 µg/m^3
1212154A-06A	TO-15	4-Ethyltoluene	0.19 ppbv / 0.96 µg/m^3
1212154A-06A	TO-15	1,3,5-Trimethylbenzene	0.18 ppbv / 0.90 µg/m^3
1212154A-06A	TO-15	1,2,4-Trimethylbenzene	0.20 ppbv / 0.99 µg/m^3
1212154A-06A	TO-15	1,3-Dichlorobenzene	0.36 ppbv / 2.2 µg/m^3
1212154A-06A	TO-15	1,4-Dichlorobenzene	0.38 ppbv / 2.3 µg/m^3
1212154A-06A	TO-15	alpha-Chlorotoluene	0.21 ppbv / 1.1 µg/m^3
1212154A-06A	TO-15	1,2-Dichlorobenzene	0.35 ppbv / 2.1 µg/m^3
1212154A-06A	TO-15	1,2,4-Trichlorobenzene	0.78 ppbv / 5.8 µg/m^3
1212154A-06A	TO-15	Hexachlorobutadiene	0.45 ppbv / 4.8 µg/m^3
1212154A-06B	TO-15	Ethanol	10 ppbv / 20 µg/m^3
1212154A-06B	TO-15	Methylene chloride	0.49 ppbv / 1.7 µg/m^3
1212154B-06A	ASTM D-1945	Nitrogen	0.055 %
1212154C-06A	TO-3	TPH (Gasoline range)	0.013 ppmv / 0.055 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-113012	TO-15	trans-1,3-Dichloropropene	-	**U**
EXH-SVE-113012	TO-15	Propylbenzene	-	**U**
EXH-SVE-113012	TO-15	1,4-Dichlorobenzene	-	**U**
EXH-SVE-113012	TO-15	alpha-Chlorotoluene	-	**U**
EXH-SVE-120412	TO-15	Bromomethane	-	**U**
EXH-SVE-120412	TO-15	Carbon disulfide	-	**U**
EXH-SVE-120412	TO-15	Methylene chloride	-	**U**
EXH-SVE-120412	TO-15	1,3-Dichlorobenzene	-	**U**
ESH-SVE-120412	TO-15	1,4-Dichlorobenzene	-	**U**
EXH-SVE-120412	TO-15	alpha-Chlorotoluene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1212154A-08B/BB	TO-15	1,2,4-Trichlorobenzene	**138/144**	4	70-130/25
1212154A-08B/BB	TO-15	Hexachlorobutadiene	**138/139**	1	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery	Criteria
MainHeader-SVE-113012	TO-3	Fluorobenzene (FID)	**226**	75-150
EXH-SVE-120312	TO-3	Fluorobenzene (FID)	**162**	75-150

Analytical data that required qualification based on surrogate data are in included in the table below.

Sample ID	Parameter	Analyte	Qualification
MainHeader-SVE-113012	TO-3	TPH (Gasoline range)	**J**
EXH-SVE-120312	TO-3	TPH (Gasoline range)	**J**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1212154A-07B	TO-15	Hexachlorobutadiene	**136**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

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12/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1212154A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/7/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/3/2013

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WORK ORDER #: 1212154A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	12/07/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	12/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-113012	Modified TO-15	10.0 "Hg	15 psi
02A	MainHeader-SVE-113012	Modified TO-15	10.5 "Hg	15 psi
03A	EXH-SVE-120312	Modified TO-15	11.0 "Hg	15 psi
04A	EXH-SVE-120412	Modified TO-15	10.5 "Hg	15 psi
05A	EXH-SVE-120512	Modified TO-15	8.5 "Hg	15 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA
08BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1212154A

Five 1 Liter Summa Canister samples were received on December 07, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on samples EXH-SVE-113012, MainHeader-SVE-113012, EXH-SVE-120312, and EXH-SVE120512 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	30	3.7 J	120	14 J
Ethanol	12	8.0 J	23	15 J
Acetone	30	64	72	150
Carbon Disulfide	12	4.9 J	38	15 J
Hexane	3.0	240	11	840
2-Butanone (Methyl Ethyl Ketone)	12	32	36	95
Cyclohexane	3.0	37	10	130
2,2,4-Trimethylpentane	3.0	200	14	920
Benzene	3.0	18	9.7	58
Heptane	3.0	35	12	140
Toluene	3.0	6.6	11	25
trans-1,3-Dichloropropene	3.0	~~0.84 J~~ U	14	~~3.8 J~~ U
2-Hexanone	12	3.0 J	50	12 J
Ethyl Benzene	3.0	3.3	13	14
m,p-Xylene	3.0	7.6	13	33
o-Xylene	3.0	2.3 J	13	9.8 J
Propylbenzene	3.0	~~0.53 J~~ U	15	~~2.6 J~~ U
4-Ethyltoluene	3.0	1.2 J	15	6.1 J
1,2,4-Trimethylbenzene	3.0	1.0 J	15	5.0 J
1,4-Dichlorobenzene	3.0	~~0.47 J~~ U	18	~~2.8 J~~ U
alpha-Chlorotoluene	3.0	~~0.30 J~~ U	16	~~1.5 J~~ U
Butane	12	740	29	1800
Isopentane	12	1000	36	3000

Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1600	230000	5500	810000
Cyclohexane	1600	53000	5400	180000
2,2,4-Trimethylpentane	1600	220000	7300	1000000
Benzene	1600	14000	5000	44000
Heptane	1600	61000	6400	250000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154A-02A

Trichloroethene	1600	3000	8400	16000
Toluene	1600	14000	5800	52000
Ethyl Benzene	1600	2600	6800	11000
m,p-Xylene	1600	5700	6800	24000
o-Xylene	1600	1000 J	6800	4600 J
Butane	6200	640000	15000	1500000
Isopentane	6200	700000	18000	2100000

Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	320	32 J	1200	130 J
Acetone	320	81 J	760	190 J
Hexane	32	3300	110	12000
2-Butanone (Methyl Ethyl Ketone)	130	35 J	380	100 J
Cyclohexane	32	540	110	1900
2,2,4-Trimethylpentane	32	2400	150	11000
Benzene	32	1500	100	4900
Heptane	32	560	130	2300
Toluene	32	81	120	300
Ethyl Benzene	32	11 J	140	49 J
m,p-Xylene	32	26 J	140	110 J
Butane	130	9200	300	22000
Isopentane	130	12000	380	35000

Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	16	~~1.7 J~~ U	60	~~6.6 J~~ U
Ethanol	6.2	6.8	12	13
Acetone	16	43	37	100
Carbon Disulfide	6.2	~~1.7 J~~ U	19	~~5.4 J~~ U

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154A-04A

Methylene Chloride	16	~~0.29 J~~ U	54	~~1.0 J~~ U
Hexane	1.6	130	5.5	460
2-Butanone (Methyl Ethyl Ketone)	6.2	26	18	77
Cyclohexane	1.6	32	5.4	110
2,2,4-Trimethylpentane	1.6	140	7.3	630
Benzene	1.6	240	5.0	780
Heptane	1.6	53	6.4	220
4-Methyl-2-pentanone	1.6	0.44 J	6.4	1.8 J
Toluene	1.6	49	5.8	180
2-Hexanone	6.2	3.2 J	25	13 J
Ethyl Benzene	1.6	28	6.8	120
m,p-Xylene	1.6	81	6.8	350
o-Xylene	1.6	22	6.8	96
Cumene	1.6	1.9	7.6	9.4
Propylbenzene	1.6	1.4 J	7.6	6.6 J
4-Ethyltoluene	1.6	4.6	7.6	22
1,3,5-Trimethylbenzene	1.6	1.8	7.6	9.0
1,2,4-Trimethylbenzene	1.6	1.8	7.6	8.6
1,3-Dichlorobenzene	1.6	~~0.25 J~~ U	9.3	~~1.5 J~~ U
1,4-Dichlorobenzene	1.6	~~0.34 J~~ U	9.3	~~2.0 J~~ U
alpha-Chlorotoluene	1.6	~~0.23 J~~ U	8.0	~~1.2 J~~ U
Butane	6.2	170	15	400
Isopentane	6.2	250	18	740

Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	280	26 J	1100	100 J
Acetone	280	71 J	670	170 J
Hexane	28	2200	99	7600
2-Butanone (Methyl Ethyl Ketone)	110	40 J	330	120 J
Cyclohexane	28	390	97	1400
2,2,4-Trimethylpentane	28	1900	130	8800
Benzene	28	1300	90	4100

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154A-05A

Heptane	28	480	120	2000
Toluene	28	140	110	510
Ethyl Benzene	28	35	120	150
m,p-Xylene	28	75	120	330
o-Xylene	28	15 J	120	64 J
Butane	110	5200	270	12000
Isopentane	110	7100	330	21000

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Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121316**	**Date of Collection:**	**11/30/12 8:57:00 AM**
Dil. Factor:	**6.06**	**Date of Analysis:**	**12/14/12 08:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	Not Detected	15	Not Detected
Freon 114	3.0	Not Detected	21	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	3.0	Not Detected	7.7	Not Detected
1,3-Butadiene	3.0	Not Detected	6.7	Not Detected
Bromomethane	30	3.7 J	120	14 J
Chloroethane	12	Not Detected	32	Not Detected
Freon 11	3.0	Not Detected	17	Not Detected
Ethanol	12	8.0 J	23	15 J
Freon 113	3.0	Not Detected	23	Not Detected
1,1-Dichloroethene	3.0	Not Detected	12	Not Detected
Acetone	30	64	72	150
2-Propanol	12	Not Detected	30	Not Detected
Carbon Disulfide	12	4.9 J	38	15 J
3-Chloropropene	12	Not Detected	38	Not Detected
Methylene Chloride	30	Not Detected	100	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Hexane	3.0	240	11	840
1,1-Dichloroethane	3.0	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	32	36	95
cis-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Tetrahydrofuran	3.0	Not Detected	8.9	Not Detected
Chloroform	3.0	Not Detected	15	Not Detected
1,1,1-Trichloroethane	3.0	Not Detected	16	Not Detected
Cyclohexane	3.0	37	10	130
Carbon Tetrachloride	3.0	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	3.0	200	14	920
Benzene	3.0	18	9.7	58
1,2-Dichloroethane	3.0	Not Detected	12	Not Detected
Heptane	3.0	35	12	140
Trichloroethene	3.0	Not Detected	16	Not Detected
1,2-Dichloropropane	3.0	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	44	Not Detected
Bromodichloromethane	3.0	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
4-Methyl-2-pentanone	3.0	Not Detected	12	Not Detected
Toluene	3.0	6.6	11	25
trans-1,3-Dichloropropene	3.0	~~0.84 J~~ 4	14	~~3.8 J~~ 14
1,1,2-Trichloroethane	3.0	Not Detected	16	Not Detected
Tetrachloroethene	3.0	Not Detected	20	Not Detected
2-Hexanone	12	3.0 J	50	12 J

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Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121316**	**Date of Collection:**	**11/30/12 8:57:00 AM**
Dil. Factor:	**6.06**	**Date of Analysis:**	**12/14/12 08:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.0	Not Detected	26	Not Detected
1,2-Dibromoethane (EDB)	3.0	Not Detected	23	Not Detected
Chlorobenzene	3.0	Not Detected	14	Not Detected
Ethyl Benzene	3.0	3.3	13	14
m,p-Xylene	3.0	7.6	13	33
o-Xylene	3.0	2.3 J	13	9.8 J
Styrene	3.0	Not Detected	13	Not Detected
Bromoform	3.0	Not Detected	31	Not Detected
Cumene	3.0	Not Detected	15	Not Detected
1,1,2,2-Tetrachloroethane	3.0	Not Detected	21	Not Detected
Propylbenzene	3.0	~~0.53 J~~ U	15	~~2.6 J~~ U
4-Ethyltoluene	3.0	1.2 J	15	6.1 J
1,3,5-Trimethylbenzene	3.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	3.0	1.0 J	15	5.0 J
1,3-Dichlorobenzene	3.0	Not Detected	18	Not Detected
1,4-Dichlorobenzene	3.0	~~0.47 J~~ U	18	~~2.8 J~~ U
alpha-Chlorotoluene	3.0	~~0.30 J~~ U	16	~~1.5 J~~ U
1,2-Dichlorobenzene	3.0	Not Detected	18	Not Detected
1,2,4-Trichlorobenzene	12	Not Detected	90	Not Detected
Hexachlorobutadiene	12	Not Detected	130	Not Detected
Butane	12	740	29	1800
Isopentane	12	1000	36	3000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14121324**	**Date of Collection:**	**11/30/12 9:10:00 AM**
Dil. Factor:	**311**	**Date of Analysis:**	**12/13/12 09:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1600	Not Detected	7700	Not Detected
Freon 114	1600	Not Detected	11000	Not Detected
Chloromethane	6200	Not Detected	13000	Not Detected
Vinyl Chloride	1600	Not Detected	4000	Not Detected
1,3-Butadiene	1600	Not Detected	3400	Not Detected
Bromomethane	1600	Not Detected	6000	Not Detected
Chloroethane	6200	Not Detected	16000	Not Detected
Freon 11	1600	Not Detected	8700	Not Detected
Ethanol	6200	Not Detected	12000	Not Detected
Freon 113	1600	Not Detected	12000	Not Detected
1,1-Dichloroethene	1600	Not Detected	6200	Not Detected
Acetone	6200	Not Detected	15000	Not Detected
2-Propanol	6200	Not Detected	15000	Not Detected
Carbon Disulfide	1600	Not Detected	4800	Not Detected
3-Chloropropene	6200	Not Detected	19000	Not Detected
Methylene Chloride	1600	Not Detected	5400	Not Detected
Methyl tert-butyl ether	1600	Not Detected	5600	Not Detected
trans-1,2-Dichloroethene	1600	Not Detected	6200	Not Detected
Hexane	1600	230000	5500	810000
1,1-Dichloroethane	1600	Not Detected	6300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6200	Not Detected	18000	Not Detected
cis-1,2-Dichloroethene	1600	Not Detected	6200	Not Detected
Tetrahydrofuran	1600	Not Detected	4600	Not Detected
Chloroform	1600	Not Detected	7600	Not Detected
1,1,1-Trichloroethane	1600	Not Detected	8500	Not Detected
Cyclohexane	1600	53000	5400	180000
Carbon Tetrachloride	1600	Not Detected	9800	Not Detected
2,2,4-Trimethylpentane	1600	220000	7300	1000000
Benzene	1600	14000	5000	44000
1,2-Dichloroethane	1600	Not Detected	6300	Not Detected
Heptane	1600	61000	6400	250000
Trichloroethene	1600	3000	8400	16000
1,2-Dichloropropane	1600	Not Detected	7200	Not Detected
1,4-Dioxane	6200	Not Detected	22000	Not Detected
Bromodichloromethane	1600	Not Detected	10000	Not Detected
cis-1,3-Dichloropropene	1600	Not Detected	7000	Not Detected
4-Methyl-2-pentanone	1600	Not Detected	6400	Not Detected
Toluene	1600	14000	5800	52000
trans-1,3-Dichloropropene	1600	Not Detected	7000	Not Detected
1,1,2-Trichloroethane	1600	Not Detected	8500	Not Detected
Tetrachloroethene	1600	Not Detected	10000	Not Detected
2-Hexanone	6200	Not Detected	25000	Not Detected

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Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14121324**	**Date of Collection:**	**11/30/12 9:10:00 AM**
Dil. Factor:	**311**	**Date of Analysis:**	**12/13/12 09:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1600	Not Detected	13000	Not Detected
1,2-Dibromoethane (EDB)	1600	Not Detected	12000	Not Detected
Chlorobenzene	1600	Not Detected	7200	Not Detected
Ethyl Benzene	1600	2600	6800	11000
m,p-Xylene	1600	5700	6800	24000
o-Xylene	1600	1000 J	6800	4600 J
Styrene	1600	Not Detected	6600	Not Detected
Bromoform	1600	Not Detected	16000	Not Detected
Cumene	1600	Not Detected	7600	Not Detected
1,1,2,2-Tetrachloroethane	1600	Not Detected	11000	Not Detected
Propylbenzene	1600	Not Detected	7600	Not Detected
4-Ethyltoluene	1600	Not Detected	7600	Not Detected
1,3,5-Trimethylbenzene	1600	Not Detected	7600	Not Detected
1,2,4-Trimethylbenzene	1600	Not Detected	7600	Not Detected
1,3-Dichlorobenzene	1600	Not Detected	9300	Not Detected
1,4-Dichlorobenzene	1600	Not Detected	9300	Not Detected
alpha-Chlorotoluene	1600	Not Detected	8000	Not Detected
1,2-Dichlorobenzene	1600	Not Detected	9300	Not Detected
1,2,4-Trichlorobenzene	6200	Not Detected	46000	Not Detected
Hexachlorobutadiene	6200	Not Detected	66000	Not Detected
Butane	6200	640000	15000	1500000
Isopentane	6200	700000	18000	2100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121319**	**Date of Collection:**	**12/3/12 1:55:00 PM**
Dil. Factor:	**63.8**	**Date of Analysis:**	**12/14/12 10:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	32	Not Detected	160	Not Detected
Freon 114	32	Not Detected	220	Not Detected
Chloromethane	320	Not Detected	660	Not Detected
Vinyl Chloride	32	Not Detected	82	Not Detected
1,3-Butadiene	32	Not Detected	70	Not Detected
Bromomethane	320	32 J	1200	130 J
Chloroethane	130	Not Detected	340	Not Detected
Freon 11	32	Not Detected	180	Not Detected
Ethanol	130	Not Detected	240	Not Detected
Freon 113	32	Not Detected	240	Not Detected
1,1-Dichloroethene	32	Not Detected	130	Not Detected
Acetone	320	81 J	760	190 J
2-Propanol	130	Not Detected	310	Not Detected
Carbon Disulfide	130	Not Detected	400	Not Detected
3-Chloropropene	130	Not Detected	400	Not Detected
Methylene Chloride	320	Not Detected	1100	Not Detected
Methyl tert-butyl ether	32	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	32	Not Detected	130	Not Detected
Hexane	32	3300	110	12000
1,1-Dichloroethane	32	Not Detected	130	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130	35 J	380	100 J
cis-1,2-Dichloroethene	32	Not Detected	130	Not Detected
Tetrahydrofuran	32	Not Detected	94	Not Detected
Chloroform	32	Not Detected	160	Not Detected
1,1,1-Trichloroethane	32	Not Detected	170	Not Detected
Cyclohexane	32	540	110	1900
Carbon Tetrachloride	32	Not Detected	200	Not Detected
2,2,4-Trimethylpentane	32	2400	150	11000
Benzene	32	1500	100	4900
1,2-Dichloroethane	32	Not Detected	130	Not Detected
Heptane	32	560	130	2300
Trichloroethene	32	Not Detected	170	Not Detected
1,2-Dichloropropane	32	Not Detected	150	Not Detected
1,4-Dioxane	130	Not Detected	460	Not Detected
Bromodichloromethane	32	Not Detected	210	Not Detected
cis-1,3-Dichloropropene	32	Not Detected	140	Not Detected
4-Methyl-2-pentanone	32	Not Detected	130	Not Detected
Toluene	32	81	120	300
trans-1,3-Dichloropropene	32	Not Detected	140	Not Detected
1,1,2-Trichloroethane	32	Not Detected	170	Not Detected
Tetrachloroethene	32	Not Detected	220	Not Detected
2-Hexanone	130	Not Detected	520	Not Detected

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Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121319**	**Date of Collection:**	**12/3/12 1:55:00 PM**
Dil. Factor:	**63.8**	**Date of Analysis:**	**12/14/12 10:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	32	Not Detected	270	Not Detected
1,2-Dibromoethane (EDB)	32	Not Detected	240	Not Detected
Chlorobenzene	32	Not Detected	150	Not Detected
Ethyl Benzene	32	11 J	140	49 J
m,p-Xylene	32	26 J	140	110 J
o-Xylene	32	Not Detected	140	Not Detected
Styrene	32	Not Detected	140	Not Detected
Bromoform	32	Not Detected	330	Not Detected
Cumene	32	Not Detected	160	Not Detected
1,1,2,2-Tetrachloroethane	32	Not Detected	220	Not Detected
Propylbenzene	32	Not Detected	160	Not Detected
4-Ethyltoluene	32	Not Detected	160	Not Detected
1,3,5-Trimethylbenzene	32	Not Detected	160	Not Detected
1,2,4-Trimethylbenzene	32	Not Detected	160	Not Detected
1,3-Dichlorobenzene	32	Not Detected	190	Not Detected
1,4-Dichlorobenzene	32	Not Detected	190	Not Detected
alpha-Chlorotoluene	32	Not Detected	160	Not Detected
1,2-Dichlorobenzene	32	Not Detected	190	Not Detected
1,2,4-Trichlorobenzene	130	Not Detected	950	Not Detected
Hexachlorobutadiene	130	Not Detected	1400	Not Detected
Butane	130	9200	300	22000
Isopentane	130	12000	380	35000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121318**	**Date of Collection:**	**12/4/12 1:29:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**12/14/12 10:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	7.7	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	32	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	16	~~1.7 J~~ U	60	~~6.6 J~~ U
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	6.8	12	13
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	16	43	37	100
2-Propanol	6.2	Not Detected	15	Not Detected
Carbon Disulfide	6.2	~~1.7 J~~ U	19	~~5.4 J~~ U
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	16	~~0.29 J~~ U	54	~~1.0 J~~ U
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	130	5.5	460
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	26	18	77
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.6	Not Detected
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	32	5.4	110
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	140	7.3	630
Benzene	1.6	240	5.0	780
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	53	6.4	220
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	0.44 J	6.4	1.8 J
Toluene	1.6	49	5.8	180
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	Not Detected	10	Not Detected
2-Hexanone	6.2	3.2 J	25	13 J

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Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121318**	**Date of Collection:**	**12/4/12 1:29:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**12/14/12 10:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	28	6.8	120
m,p-Xylene	1.6	81	6.8	350
o-Xylene	1.6	22	6.8	96
Styrene	1.6	Not Detected	6.6	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	1.9	7.6	9.4
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	1.4 J	7.6	6.6 J
4-Ethyltoluene	1.6	4.6	7.6	22
1,3,5-Trimethylbenzene	1.6	1.8	7.6	9.0
1,2,4-Trimethylbenzene	1.6	1.8	7.6	8.6
1,3-Dichlorobenzene	1.6	~~0.25 J~~ U	9.3	~~1.5 J~~ U
1,4-Dichlorobenzene	1.6	~~0.34 J~~ U	9.3	~~2.0 J~~ U
alpha-Chlorotoluene	1.6	~~0.23 J~~ U	8.0	~~1.2 J~~ U
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	170	15	400
Isopentane	6.2	250	18	740

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121320**	**Date of Collection:**	**12/5/12 12:20:00 PM**
Dil. Factor:	**56.4**	**Date of Analysis:**	**12/14/12 11:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	28	Not Detected	140	Not Detected
Freon 114	28	Not Detected	200	Not Detected
Chloromethane	280	Not Detected	580	Not Detected
Vinyl Chloride	28	Not Detected	72	Not Detected
1,3-Butadiene	28	Not Detected	62	Not Detected
Bromomethane	280	26 J	1100	100 J
Chloroethane	110	Not Detected	300	Not Detected
Freon 11	28	Not Detected	160	Not Detected
Ethanol	110	Not Detected	210	Not Detected
Freon 113	28	Not Detected	220	Not Detected
1,1-Dichloroethene	28	Not Detected	110	Not Detected
Acetone	280	71 J	670	170 J
2-Propanol	110	Not Detected	280	Not Detected
Carbon Disulfide	110	Not Detected	350	Not Detected
3-Chloropropene	110	Not Detected	350	Not Detected
Methylene Chloride	280	Not Detected	980	Not Detected
Methyl tert-butyl ether	28	Not Detected	100	Not Detected
trans-1,2-Dichloroethene	28	Not Detected	110	Not Detected
Hexane	28	2200	99	7600
1,1-Dichloroethane	28	Not Detected	110	Not Detected
2-Butanone (Methyl Ethyl Ketone)	110	40 J	330	120 J
cis-1,2-Dichloroethene	28	Not Detected	110	Not Detected
Tetrahydrofuran	28	Not Detected	83	Not Detected
Chloroform	28	Not Detected	140	Not Detected
1,1,1-Trichloroethane	28	Not Detected	150	Not Detected
Cyclohexane	28	390	97	1400
Carbon Tetrachloride	28	Not Detected	180	Not Detected
2,2,4-Trimethylpentane	28	1900	130	8800
Benzene	28	1300	90	4100
1,2-Dichloroethane	28	Not Detected	110	Not Detected
Heptane	28	480	120	2000
Trichloroethene	28	Not Detected	150	Not Detected
1,2-Dichloropropane	28	Not Detected	130	Not Detected
1,4-Dioxane	110	Not Detected	410	Not Detected
Bromodichloromethane	28	Not Detected	190	Not Detected
cis-1,3-Dichloropropene	28	Not Detected	130	Not Detected
4-Methyl-2-pentanone	28	Not Detected	120	Not Detected
Toluene	28	140	110	510
trans-1,3-Dichloropropene	28	Not Detected	130	Not Detected
1,1,2-Trichloroethane	28	Not Detected	150	Not Detected
Tetrachloroethene	28	Not Detected	190	Not Detected
2-Hexanone	110	Not Detected	460	Not Detected

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Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121320**	**Date of Collection:**	**12/5/12 12:20:00 PM**
Dil. Factor:	**56.4**	**Date of Analysis:**	**12/14/12 11:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	28	Not Detected	240	Not Detected
1,2-Dibromoethane (EDB)	28	Not Detected	220	Not Detected
Chlorobenzene	28	Not Detected	130	Not Detected
Ethyl Benzene	28	35	120	150
m,p-Xylene	28	75	120	330
o-Xylene	28	15 J	120	64 J
Styrene	28	Not Detected	120	Not Detected
Bromoform	28	Not Detected	290	Not Detected
Cumene	28	Not Detected	140	Not Detected
1,1,2,2-Tetrachloroethane	28	Not Detected	190	Not Detected
Propylbenzene	28	Not Detected	140	Not Detected
4-Ethyltoluene	28	Not Detected	140	Not Detected
1,3,5-Trimethylbenzene	28	Not Detected	140	Not Detected
1,2,4-Trimethylbenzene	28	Not Detected	140	Not Detected
1,3-Dichlorobenzene	28	Not Detected	170	Not Detected
1,4-Dichlorobenzene	28	Not Detected	170	Not Detected
alpha-Chlorotoluene	28	Not Detected	140	Not Detected
1,2-Dichlorobenzene	28	Not Detected	170	Not Detected
1,2,4-Trichlorobenzene	110	Not Detected	840	Not Detected
Hexachlorobutadiene	110	Not Detected	1200	Not Detected
Butane	110	5200	270	12000
Isopentane	110	7100	330	21000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212154A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121307e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 06:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	0.69 J	19	2.7 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.38 J	6.2	1.2 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.25 J	17	0.87 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.20 J	2.3	0.93 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.073 J	3.4	0.50 J
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1212154A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121307e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 06:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.15 J	3.8	1.2 J
Chlorobenzene	0.50	0.15 J	2.3	0.69 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.14 J	2.2	0.62 J
o-Xylene	0.50	0.17 J	2.2	0.73 J
Styrene	0.50	0.098 J	2.1	0.42 J
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	0.11 J	2.4	0.53 J
1,1,2,2-Tetrachloroethane	0.50	0.22 J	3.4	1.5 J
Propylbenzene	0.50	0.17 J	2.4	0.85 J
4-Ethyltoluene	0.50	0.19 J	2.4	0.96 J
1,3,5-Trimethylbenzene	0.50	0.18 J	2.4	0.90 J
1,2,4-Trimethylbenzene	0.50	0.20 J	2.4	0.99 J
1,3-Dichlorobenzene	0.50	0.36 J	3.0	2.2 J
1,4-Dichlorobenzene	0.50	0.38 J	3.0	2.3 J
alpha-Chlorotoluene	0.50	0.21 J	2.6	1.1 J
1,2-Dichlorobenzene	0.50	0.35 J	3.0	2.1 J
1,2,4-Trichlorobenzene	2.0	0.78 J	15	5.8 J
Hexachlorobutadiene	2.0	0.45 J	21	4.8 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212154A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14121306c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	10 J	38	20 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	0.49 J	17	1.7 J
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1212154A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14121306c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV
Lab ID#: 1212154A-07A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 03:41 PM**	

Compound	%Recovery
Freon 12	106
Freon 114	107
Chloromethane	101
Vinyl Chloride	107
1,3-Butadiene	113
Bromomethane	105
Chloroethane	108
Freon 11	106
Ethanol	119
Freon 113	109
1,1-Dichloroethene	116
Acetone	116
2-Propanol	124
Carbon Disulfide	111
3-Chloropropene	120
Methylene Chloride	110
Methyl tert-butyl ether	128
trans-1,2-Dichloroethene	121
Hexane	127
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	114
Tetrahydrofuran	123
Chloroform	106
1,1,1-Trichloroethane	105
Cyclohexane	121
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	124
Benzene	104
1,2-Dichloroethane	100
Heptane	122
Trichloroethene	102
1,2-Dichloropropane	103
1,4-Dioxane	105
Bromodichloromethane	100
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	126
Toluene	105
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	99
Tetrachloroethene	100
2-Hexanone	123

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Client Sample ID: CCV
Lab ID#: 1212154A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 03:41 PM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	101
Chlorobenzene	98
Ethyl Benzene	110
m,p-Xylene	112
o-Xylene	116
Styrene	119
Bromoform	103
Cumene	118
1,1,2,2-Tetrachloroethane	98
Propylbenzene	113
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	123
1,2,4-Trimethylbenzene	130
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	98
Butane	106
Isopentane	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: CCV
Lab ID#: 1212154A-07B
EPA METHOD TO-15 GC/MS

File Name:	**14121302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 11:03 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	96
Chloromethane	93
Vinyl Chloride	84
1,3-Butadiene	84
Bromomethane	100
Chloroethane	100
Freon 11	92
Ethanol	108
Freon 113	92
1,1-Dichloroethene	95
Acetone	98
2-Propanol	97
Carbon Disulfide	90
3-Chloropropene	94
Methylene Chloride	90
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	97
Hexane	95
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	89
Tetrahydrofuran	93
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	97
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	94
Benzene	95
1,2-Dichloroethane	87
Heptane	98
Trichloroethene	89
1,2-Dichloropropane	89
1,4-Dioxane	104
Bromodichloromethane	88
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	105
Toluene	88
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	92
Tetrachloroethene	90
2-Hexanone	107

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Client Sample ID: CCV
Lab ID#: 1212154A-07B
EPA METHOD TO-15 GC/MS

File Name:	**14121302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 11:03 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	95
Chlorobenzene	90
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	98
Styrene	106
Bromoform	103
Cumene	102
1,1,2,2-Tetrachloroethane	101
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	~~129~~
Hexachlorobutadiene	136 Q
Butane	91
Isopentane	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 1212154A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 04:15 PM**	

Compound	%Recovery
Freon 12	99
Freon 114	100
Chloromethane	102
Vinyl Chloride	103
1,3-Butadiene	105
Bromomethane	101
Chloroethane	101
Freon 11	99
Ethanol	112
Freon 113	104
1,1-Dichloroethene	116
Acetone	109
2-Propanol	116
Carbon Disulfide	128
3-Chloropropene	128
Methylene Chloride	102
Methyl tert-butyl ether	120
trans-1,2-Dichloroethene	126
Hexane	121
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	108
Tetrahydrofuran	112
Chloroform	101
1,1,1-Trichloroethane	100
Cyclohexane	115
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	116
Benzene	100
1,2-Dichloroethane	95
Heptane	114
Trichloroethene	100
1,2-Dichloropropane	100
1,4-Dioxane	100
Bromodichloromethane	96
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	121
Toluene	99
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	95
Tetrachloroethene	94
2-Hexanone	118

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Client Sample ID: LCS

Lab ID#: 1212154A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 04:15 PM**	

Compound	%Recovery
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	98
Chlorobenzene	94
Ethyl Benzene	104
m,p-Xylene	108
o-Xylene	110
Styrene	111
Bromoform	94
Cumene	113
1,1,2,2-Tetrachloroethane	93
Propylbenzene	107
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	119
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	87
Butane	98
Isopentane	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1212154A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 04:45 PM**	

Compound	%Recovery
Freon 12	97
Freon 114	98
Chloromethane	101
Vinyl Chloride	102
1,3-Butadiene	104
Bromomethane	100
Chloroethane	100
Freon 11	95
Ethanol	110
Freon 113	102
1,1-Dichloroethene	116
Acetone	107
2-Propanol	114
Carbon Disulfide	127
3-Chloropropene	127
Methylene Chloride	100
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	127
Hexane	119
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	107
Tetrahydrofuran	109
Chloroform	99
1,1,1-Trichloroethane	98
Cyclohexane	114
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	114
Benzene	98
1,2-Dichloroethane	93
Heptane	113
Trichloroethene	98
1,2-Dichloropropane	98
1,4-Dioxane	99
Bromodichloromethane	93
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	118
Toluene	98
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	94
Tetrachloroethene	94
2-Hexanone	115

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Client Sample ID: LCSD

Lab ID#: 1212154A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 04:45 PM**	

Compound	**%Recovery**
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	96
Chlorobenzene	92
Ethyl Benzene	102
m,p-Xylene	106
o-Xylene	110
Styrene	111
Bromoform	93
Cumene	111
1,1,2,2-Tetrachloroethane	92
Propylbenzene	105
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	89
Butane	94
Isopentane	103

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS
Lab ID#: 1212154A-08B
EPA METHOD TO-15 GC/MS

File Name:	**14121303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 11:43 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	93
Chloromethane	92
Vinyl Chloride	85
1,3-Butadiene	83
Bromomethane	96
Chloroethane	96
Freon 11	90
Ethanol	101
Freon 113	90
1,1-Dichloroethene	98
Acetone	93
2-Propanol	98
Carbon Disulfide	109
3-Chloropropene	106
Methylene Chloride	85
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	104
Hexane	91
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	86
Tetrahydrofuran	88
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	92
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	90
Benzene	95
1,2-Dichloroethane	87
Heptane	94
Trichloroethene	90
1,2-Dichloropropane	88
1,4-Dioxane	104
Bromodichloromethane	88
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	104
Toluene	88
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	94
Tetrachloroethene	89
2-Hexanone	112

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Client Sample ID: LCS

Lab ID#: 1212154A-08B

EPA METHOD TO-15 GC/MS

File Name:	**14121303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 11:43 AM**	

Compound	%Recovery
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	97
Chlorobenzene	91
Ethyl Benzene	96
m,p-Xylene	99
o-Xylene	102
Styrene	112
Bromoform	101
Cumene	104
1,1,2,2-Tetrachloroethane	104
Propylbenzene	102
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	138 Q
Hexachlorobutadiene	138 Q
Butane	84
Isopentane	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD
Lab ID#: 1212154A-08BB
EPA METHOD TO-15 GC/MS

File Name:	**14121304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 12:04 PM**	

Compound	%Recovery
Freon 12	93
Freon 114	92
Chloromethane	89
Vinyl Chloride	82
1,3-Butadiene	81
Bromomethane	95
Chloroethane	97
Freon 11	89
Ethanol	92
Freon 113	89
1,1-Dichloroethene	96
Acetone	93
2-Propanol	97
Carbon Disulfide	108
3-Chloropropene	106
Methylene Chloride	85
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	104
Hexane	91
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	86
Tetrahydrofuran	88
Chloroform	88
1,1,1-Trichloroethane	92
Cyclohexane	92
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	90
Benzene	92
1,2-Dichloroethane	84
Heptane	93
Trichloroethene	87
1,2-Dichloropropane	85
1,4-Dioxane	99
Bromodichloromethane	86
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	101
Toluene	85
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	91
Tetrachloroethene	88
2-Hexanone	109

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Client Sample ID: LCSD
Lab ID#: 1212154A-08BB
EPA METHOD TO-15 GC/MS

File Name:	**14121304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/13/12 12:04 PM**	

Compound	%Recovery
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	94
Chlorobenzene	88
Ethyl Benzene	93
m,p-Xylene	97
o-Xylene	97
Styrene	108
Bromoform	97
Cumene	102
1,1,2,2-Tetrachloroethane	102
Propylbenzene	101
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	144 Q
Hexachlorobutadiene	139 Q
Butane	82
Isopentane	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

1212154

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglen
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 6-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com
SAMPLER NAME(S) Print: S. Wipfler, R. Hart, M. Currier

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-113012	11/30/12	857	3281	-29.5	-9			X	X	X		
02A	MainHeader-SVE-113012	11/30/12	910	3864	-29	-10			X	X	X		
03A	EXH-SVE-120312	12/03/12	1355	2517	-29	-9			X	X	X		
04A	EXH-SVE-120412	12/04/12	1329	40940	-29.5	-9			X	X	X		
05A	EXH-SVE-120512	12/05/12	1220	3894	-29	-8			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

12/6/12

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 12/6/12	Time: 1730
Relinquished by: (Signature)	Received by: (Signature)	Date: 12/7/12	Time: 0930
Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date:	Time:

05/2/00 Revision

CUSTODY SEAL INTACT? Y N NONE N/A

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12/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1212154B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/7/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/3/2013

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WORK ORDER #: 1212154B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	12/07/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	12/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-113012	Modified ASTM D-1945	10.0 "Hg	15 psi
02A	MainHeader-SVE-113012	Modified ASTM D-1945	10.5 "Hg	15 psi
03A	EXH-SVE-120312	Modified ASTM D-1945	11.0 "Hg	15 psi
04A	EXH-SVE-120412	Modified ASTM D-1945	10.5 "Hg	15 psi
05A	EXH-SVE-120512	Modified ASTM D-1945	8.5 "Hg	15 psi
06A	Lab Blank	Modified ASTM D-1945	NA	NA
06B	Lab Blank	Modified ASTM D-1945	NA	NA
07A	LCS	Modified ASTM D-1945	NA	NA
07AA	LCSD	Modified ASTM D-1945	NA	NA
07B	LCS	Modified ASTM D-1945	NA	NA
07BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1212154B

Five 1 Liter Summa Canister samples were received on December 07, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Samples were removed from "Hold" and placed on "Active" status per client request on December 14, 2012.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	79
Methane	0.00030	0.0022
Carbon Dioxide	0.030	1.2
Butane	0.0030	0.000088 J
Isopentane	0.0030	0.00010 J

Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	17
Nitrogen	0.31	78
Methane	0.00031	1.5
Carbon Dioxide	0.031	3.1
Ethane	0.0031	0.00044 J
Propane	0.0031	0.00063 J
Isobutane	0.0031	0.0096
Butane	0.0031	0.084
Neopentane	0.0031	0.00036 J
Isopentane	0.0031	0.10
Pentane	0.0031	0.036
C6+	0.031	0.31

Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	20
Nitrogen	0.32	79
Methane	0.00032	0.023
Carbon Dioxide	0.032	0.65
Isobutane	0.0032	0.00012 J

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154B-03A

Butane	0.0032	0.00097 J
Isopentane	0.0032	0.0012 J
Pentane	0.0032	0.00053 J
C6+	0.032	0.0024 J

Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Methane	0.00031	0.00044
Carbon Dioxide	0.031	0.86

Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	79
Methane	0.00028	0.012
Carbon Dioxide	0.028	0.74
Butane	0.0028	0.00051 J
Isopentane	0.0028	0.00068 J
Pentane	0.0028	0.00026 J
C6+	0.028	0.0017 J

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Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121431**	**Date of Collection:**	**11/30/12 8:57:00 AM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**12/14/12 08:11 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	20
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0022
Carbon Dioxide	0.030	1.2
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Acetylene	0.0030	Not Detected
Propane	0.0030	Not Detected
Isobutane	0.0030	Not Detected
Butane	0.0030	0.000088 J
Neopentane	0.0030	Not Detected
Isopentane	0.0030	0.00010 J
Pentane	0.0030	Not Detected
C6+	0.030	Not Detected J
Hydrogen	0.030	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.029

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121432**	**Date of Collection:**	**11/30/12 9:10:00 AM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**12/14/12 08:36 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	17
Nitrogen	0.31	78
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	1.5
Carbon Dioxide	0.031	3.1
Ethane	0.0031	0.00044 J
Ethene	0.0031	Not Detected
Acetylene	0.0031	Not Detected
Propane	0.0031	0.00063 J
Isobutane	0.0031	0.0096
Butane	0.0031	0.084
Neopentane	0.0031	0.00036 J
Isopentane	0.0031	0.10
Pentane	0.0031	0.036
C6+	0.031	0.31
Hydrogen	0.031	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 38

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121434**	**Date of Collection:**	**12/3/12 1:55:00 PM**
Dil. Factor:	**3.19**	**Date of Analysis:**	**12/14/12 09:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	20
Nitrogen	0.32	79
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.023
Carbon Dioxide	0.032	0.65
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Acetylene	0.0032	Not Detected
Propane	0.0032	Not Detected
Isobutane	0.0032	0.00012 J
Butane	0.0032	0.00097 J
Neopentane	0.0032	Not Detected
Isopentane	0.0032	0.0012 J
Pentane	0.0032	0.00053 J
C6+	0.032	0.0024 J
Hydrogen	0.032	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.45

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121435**	**Date of Collection:**	**12/4/12 1:29:00 PM**
Dil. Factor:	**3.11**	**Date of Analysis:**	**12/14/12 09:47 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	20
Nitrogen	0.31	79
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.00044
Carbon Dioxide	0.031	0.86
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Acetylene	0.0031	Not Detected
Propane	0.0031	Not Detected
Isobutane	0.0031	Not Detected
Butane	0.0031	Not Detected
Neopentane	0.0031	Not Detected
Isopentane	0.0031	Not Detected
Pentane	0.0031	Not Detected
C6+	0.031	Not Detected
Hydrogen	0.031	Not Detected

Total BTU/Cu.F. = 0.0044
Total Sp. Gravity = 1.0
Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121436**	**Date of Collection:**	**12/5/12 12:20:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**12/14/12 10:10 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.012
Carbon Dioxide	0.028	0.74
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Acetylene	0.0028	Not Detected
Propane	0.0028	Not Detected
Isobutane	0.0028	Not Detected
Butane	0.0028	0.00051 J
Neopentane	0.0028	Not Detected
Isopentane	0.0028	0.00068 J
Pentane	0.0028	0.00026 J
C6+	0.028	0.0017 J
Hydrogen	0.028	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.26

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1212154B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121430**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 07:36 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.055 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1212154B-06B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121429b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 06:40 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1212154B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121426**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 05:09 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	100
Methane	97
Carbon Dioxide	101
Ethane	98
Ethene	95
Acetylene	97
Propane	100
Isobutane	101
Butane	100
Neopentane	100
Isopentane	99
Pentane	99
C6+	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1212154B-07AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121437**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 10:31 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	102
Methane	98
Carbon Dioxide	101
Ethane	99
Ethene	96
Acetylene	98
Propane	102
Isobutane	103
Butane	101
Neopentane	102
Isopentane	100
Pentane	100
C6+	99

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1212154B-07B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121438b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 10:55 PM**	

Compound	%Recovery
Hydrogen	99

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1212154B-07BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9121439b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/14/12 11:16 PM**	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

1212154

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheguian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 6-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth_kunkel@urs.com
CONSULTANT PROJECT NAME#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Site Contact E-MAIL: dave.palmer@urs.com
SAMPLER NAME(S) (Print): S. Wipfler, R. Hart, M. Currier

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-113012	11/30/12	857	3281	-29.5	-9			X	X	X		
02A	MainHeader-SVE-113012	11/30/12	910	3864	-29	-10			X	X	X		
03A	EXH-SVE-120312	12/03/12	1355	2517	-29	-9			X	X	X		
04A	EXH-SVE-120412	12/04/12	1329	40940	-29.5	-9			X	X	X		
05A	EXH-SVE-120512	12/05/12	1220	3894	-29	-8			X	X	X		

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

12/6/12

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 12/6/12	Time: 1730
Relinquished by: (Signature)	Received by: (Signature) FEDEX ATL	Date: 12/7/12	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

CUSTODY SEAL INTACT? Y N NONE NA

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12/20/2012
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562735.00018
Workorder #: 1212154C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/7/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/3/2013

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WORK ORDER #: 1212154C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562735.00018 Roxana SVE O&M
DATE RECEIVED:	12/07/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	12/20/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-113012	Modified TO-3	10.0 "Hg	15 psi
02A	MainHeader-SVE-113012	Modified TO-3	10.5 "Hg	15 psi
03A	EXH-SVE-120312	Modified TO-3	11.0 "Hg	15 psi
04A	EXH-SVE-120412	Modified TO-3	10.5 "Hg	15 psi
05A	EXH-SVE-120512	Modified TO-3	8.5 "Hg	15 psi
06A	Lab Blank	Modified TO-3	NA	NA
07A	LCS	Modified TO-3	NA	NA
07AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 12/20/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1212154C

Five 1 Liter Summa Canister samples were received on December 07, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Samples were removed from "Hold" and placed on "Active" status per client request on December 14, 2012.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations

that are below the level at which the canister was certified may be false positives.

The recovery of surrogate Fluorobenzene in samples MainHeader-SVE-113012 and EXH-SVE-120312 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.076	0.31	6.4	26

Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	7.8	32	7500 J	30000 J

Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.080	0.33	75 J	310 J

Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154C-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.16	0.64	4.6	19

Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154C-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.14	0.58	56	230

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Client Sample ID: EXH-SVE-113012

Lab ID#: 1212154C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121013**	**Date of Collection: 11/30/12 8:57:00 AM**	
Dil. Factor:	**3.03**	**Date of Analysis: 12/10/12 08:29 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.076	0.31	6.4	26

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	105	75-150

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Client Sample ID: MainHeader-SVE-113012

Lab ID#: 1212154C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121016**	**Date of Collection: 11/30/12 9:10:00 AM**	
Dil. Factor:	**311**	**Date of Analysis: 12/10/12 10:18 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	7.8	32	7500 J	30000 J

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	226 Q	75-150

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Client Sample ID: EXH-SVE-120312

Lab ID#: 1212154C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121012**	**Date of Collection: 12/3/12 1:55:00 PM**	
Dil. Factor:	**3.19**	**Date of Analysis: 12/10/12 07:52 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.080	0.33	75 J	310 J

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	162 Q	75-150

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Client Sample ID: EXH-SVE-120412

Lab ID#: 1212154C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121014**	**Date of Collection: 12/4/12 1:29:00 PM**	
Dil. Factor:	**6.22**	**Date of Analysis: 12/10/12 09:04 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.16	0.64	4.6	19

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150

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Client Sample ID: EXH-SVE-120512

Lab ID#: 1212154C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121015**	**Date of Collection:**	**12/5/12 12:20:00 PM**
Dil. Factor:	**5.64**	**Date of Analysis:**	**12/10/12 09:38 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.14	0.58	56	230

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	149	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1212154C-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121003a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/10/12 12:23 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.013 J	0.055 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150

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Client Sample ID: LCS

Lab ID#: 1212154C-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/10/12 11:41 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	117

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	97	75-150

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Client Sample ID: LCSD

Lab ID#: 1212154C-07AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d121017**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/10/12 10:57 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	104	75-150

1212154

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562735.00018
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 5 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 6-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth_kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wipfler, R. Hart, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.calmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01A	EXH-SVE-113012	11/30/12	857	3281	-29.5	-9			X	X	X		
02A	MainHeader-SVE-113012	11/30/12	910	3864	-29	-10			X	X	X		
03A	EXH-SVE-120312	12/03/12	1355	2517	-29	-9			X	X	X		
04A	EXH-SVE-120412	12/04/12	1329	40940	-29.5	-9			X	X	X		
05A	EXH-SVE-120512	12/05/12	1220	3894	-29	-8			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

12/6/12

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 12/6/12	Time: 1730
Relinquished by: (Signature)	Received by: (Signature) Kathy Dicks ATL	Date: 12/7/12	Time: 0930
Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date:	Time:

05/2/08 Revision

CUSTODY SEAL INTACT?
Y N NONE TEMP NA

SVE System O&M 2012 Data Review

Laboratory SDG: 1212526A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/14/2013

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
PWHeader-121912	MainHeader-121912
EXH-SVE-121012	EXH-SVE-121212

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated samples PWHeader-121912 and MainHeader-121912 were diluted due to high levels of target analytes. Samples EXH-SVE-121012 and EXH-SVE-121212 were analyzed for TO-15 VOCs four days outside the requested 14-day hold time, and sample EXH-SVE-121012 was analyzed for natural gases and TPH three days outside the requested 14-day hold time. Although not indicated in the laboratory case narrative, analytes were detected in the TO-15, ASTM D-1945, and TO-3 method blanks. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-3 surrogate fluorobenzene was outside evaluation criteria in sample MainHeader-121912. TO-15 CCV recovery for 1,2,4-trichlorobenzene and hexachlorobutadiene were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes, however samples EXH-SVE-121012 and EXH-SVE-121212 were analyzed for TO-15 VOCs four days outside the requested 14-day hold time, and sample EXH-SVE-121012 was analyzed for natural gases and TPH three days outside the requested 14-day hold time. Analyses were completed within method required hold times; therefore, no qualification of data was required.

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1212526A-05A	TO-15	Ethanol	9.9 ppbv / 19 µg/m^3
1212526A-05B	TO-15	Ethanol	9.3 ppbv / 18 µg/m^3
1212526A-05B	TO-15	Chlorobenzene	0.73 ppbv / 3.4 µg/m^3
1212526B-05A	ASTM D-1945	Oxygen	0.0055 %
1212526B-05A	ASTM D-1945	Nitrogen	0.045 %
1212526C-05A	TO-3	TPH (Gasoline range)	0.011 ppmv / 0.045 µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-121212	TO-15	Ethanol	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1212526A-07A/AA	TO-15	1,2,4-Trichlorobenzene	**171/184**	7	70-130/25
1212526A-07A/AA	TO-15	Hexachlorobutadiene	**176/196**	10	70-130/25
1212526A-07B/BB	TO-15	1,2,4-Trichlorobenzene	**190/142**	**29**	70-130/25
1212526A-07B/BB	TO-15	Hexachlorobutadiene	**203/148**	**31**	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery	Criteria
MainHeader-121912	TO-3	Fluorobenzene (FID)	**198**	75-150

Analytical data that required qualification based on surrogate data are in included in the table below.

Sample ID	Parameter	Analyte	Qualification
MainHeader-121912	TO-3	TPH (Gasoline range)	**J**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1212526A-06A	TO-15	1,2,4-Trichlorobenzene	**132**	70-130
1212526A-06A	TO-15	Hexachlorobutadiene	**141**	70-130
1212526A-06B	TO-15	Hexachlorobutadiene	**132**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

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1/10/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212526A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/14/13

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WORK ORDER #: 1212526A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/10/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PWHeader-121912	Modified TO-15	9.6 "Hg	15 psi
02A	MainHeader-121912	Modified TO-15	9.6 "Hg	15 psi
03A	EXH-SVE-121012	Modified TO-15	6.6 "Hg	15 psi
04A	EXH-SVE-121212	Modified TO-15	7.6 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 01/10/13

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxies Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1212526A

Four 1 Liter Summa Canister samples were received on December 26, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample EXH-SVE-121012 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples PWHeader-121912 and MainHeader-121912 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The Relative Percent Difference (RPD) of the LCS/LCSD performed on 12/30/2012 exceeded acceptance limits for 1,2,4-Trichlorobenzene and Hexachlorobutadiene.

Samples EXH-SVE-121012 and EXH-SVE-121212 were analyzed past the project specified 14-day hold time, but within the method required 30-day hold time.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: PWHeader-121912

Lab ID#: 1212526A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	740	260 J	2600	910 J
Hexane	740	40000	2600	140000
Cyclohexane	740	8700	2500	30000
2,2,4-Trimethylpentane	740	26000	3400	120000
Benzene	740	220000	2400	700000
Heptane	740	4700	3000	19000
Trichloroethene	740	69 J	4000	370 J
Toluene	740	300 J	2800	1100 J
Tetrachloroethene	740	120 J	5000	810 J
Ethyl Benzene	740	180 J	3200	790 J
m,p-Xylene	740	220 J	3200	970 J
Butane	3000	250000	7000	590000
Isopentane	3000	460000	8700	1400000

Client Sample ID: MainHeader-121912

Lab ID#: 1212526A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	1500	370 J	5200	1300 J
Methyl tert-butyl ether	1500	180 J	5400	670 J
Hexane	1500	380000	5200	1300000
Cyclohexane	1500	83000	5100	290000
2,2,4-Trimethylpentane	1500	310000	6900	1500000
Benzene	1500	25000	4700	81000
Heptane	1500	80000	6100	330000
Toluene	1500	20000	5600	76000
Tetrachloroethene	1500	160 J	10000	1100 J
Ethyl Benzene	1500	3900	6400	17000
m,p-Xylene	1500	7300	6400	32000
o-Xylene	1500	1600	6400	6900
Butane	5900	1300000	14000	3000000
Isopentane	5900	1400000	18000	4100000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	52	17 J	120	41 J
Hexane	13	84	46	290
Cyclohexane	13	23	44	80
2,2,4-Trimethylpentane	13	81	60	380
Benzene	13	160	41	520
Heptane	13	34	53	140
Toluene	13	40	49	150
Ethyl Benzene	13	12 J	56	52 J
m,p-Xylene	13	25	56	110
o-Xylene	13	5.0 J	56	22 J
Butane	52	120	120	280
Isopentane	52	180	150	520

Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	54	~~16 J~~	100	~~30 J~~
Acetone	54	26 J	130	62 J
2-Propanol	54	3.4 J	130	8.4 J
Hexane	14	2200	48	7900
2-Butanone (Methyl Ethyl Ketone)	54	5.0 J	160	15 J
Cyclohexane	14	500	46	1700
2,2,4-Trimethylpentane	14	2000	63	9400
Benzene	14	1000	43	3400
Heptane	14	520	55	2100
Toluene	14	110	51	410
Ethyl Benzene	14	27	59	120
m,p-Xylene	14	60	59	260
o-Xylene	14	12 J	59	52 J
Cumene	14	2.8 J	66	14 J
Butane	54	6700	130	16000
Isopentane	54	9100	160	27000

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Client Sample ID: PWHeader-121912

Lab ID#: 1212526A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14122830**	**Date of Collection:**	**12/19/12 2:45:00 PM**
Dil. Factor:	**148**	**Date of Analysis:**	**12/28/12 10:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	740	Not Detected	3600	Not Detected
Freon 114	740	Not Detected	5200	Not Detected
Chloromethane	3000	Not Detected	6100	Not Detected
Vinyl Chloride	740	Not Detected	1900	Not Detected
1,3-Butadiene	740	Not Detected	1600	Not Detected
Bromomethane	740	Not Detected	2900	Not Detected
Chloroethane	3000	Not Detected	7800	Not Detected
Freon 11	740	Not Detected	4200	Not Detected
Ethanol	3000	Not Detected	5600	Not Detected
Freon 113	740	Not Detected	5700	Not Detected
1,1-Dichloroethene	740	Not Detected	2900	Not Detected
Acetone	3000	Not Detected	7000	Not Detected
2-Propanol	3000	Not Detected	7300	Not Detected
Carbon Disulfide	740	Not Detected	2300	Not Detected
3-Chloropropene	3000	Not Detected	9300	Not Detected
Methylene Chloride	740	260 J	2600	910 J
Methyl tert-butyl ether	740	Not Detected	2700	Not Detected
trans-1,2-Dichloroethene	740	Not Detected	2900	Not Detected
Hexane	740	40000	2600	140000
1,1-Dichloroethane	740	Not Detected	3000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3000	Not Detected	8700	Not Detected
cis-1,2-Dichloroethene	740	Not Detected	2900	Not Detected
Tetrahydrofuran	740	Not Detected	2200	Not Detected
Chloroform	740	Not Detected	3600	Not Detected
1,1,1-Trichloroethane	740	Not Detected	4000	Not Detected
Cyclohexane	740	8700	2500	30000
Carbon Tetrachloride	740	Not Detected	4600	Not Detected
2,2,4-Trimethylpentane	740	26000	3400	120000
Benzene	740	220000	2400	700000
1,2-Dichloroethane	740	Not Detected	3000	Not Detected
Heptane	740	4700	3000	19000
Trichloroethene	740	69 J	4000	370 J
1,2-Dichloropropane	740	Not Detected	3400	Not Detected
1,4-Dioxane	3000	Not Detected	11000	Not Detected
Bromodichloromethane	740	Not Detected	5000	Not Detected
cis-1,3-Dichloropropene	740	Not Detected	3400	Not Detected
4-Methyl-2-pentanone	740	Not Detected	3000	Not Detected
Toluene	740	300 J	2800	1100 J
trans-1,3-Dichloropropene	740	Not Detected	3400	Not Detected
1,1,2-Trichloroethane	740	Not Detected	4000	Not Detected
Tetrachloroethene	740	120 J	5000	810 J
2-Hexanone	3000	Not Detected	12000	Not Detected

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Client Sample ID: PWHeader-121912

Lab ID#: 1212526A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14122830**	**Date of Collection:**	**12/19/12 2:45:00 PM**
Dil. Factor:	**148**	**Date of Analysis:**	**12/28/12 10:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	740	Not Detected	6300	Not Detected
1,2-Dibromoethane (EDB)	740	Not Detected	5700	Not Detected
Chlorobenzene	740	Not Detected	3400	Not Detected
Ethyl Benzene	740	180 J	3200	790 J
m,p-Xylene	740	220 J	3200	970 J
o-Xylene	740	Not Detected	3200	Not Detected
Styrene	740	Not Detected	3200	Not Detected
Bromoform	740	Not Detected	7600	Not Detected
Cumene	740	Not Detected	3600	Not Detected
1,1,2,2-Tetrachloroethane	740	Not Detected	5100	Not Detected
Propylbenzene	740	Not Detected	3600	Not Detected
4-Ethyltoluene	740	Not Detected	3600	Not Detected
1,3,5-Trimethylbenzene	740	Not Detected	3600	Not Detected
1,2,4-Trimethylbenzene	740	Not Detected	3600	Not Detected
1,3-Dichlorobenzene	740	Not Detected	4400	Not Detected
1,4-Dichlorobenzene	740	Not Detected	4400	Not Detected
alpha-Chlorotoluene	740	Not Detected	3800	Not Detected
1,2-Dichlorobenzene	740	Not Detected	4400	Not Detected
1,2,4-Trichlorobenzene	3000	Not Detected	22000	Not Detected
Hexachlorobutadiene	3000	Not Detected	32000	Not Detected
Butane	3000	250000	7000	590000
Isopentane	3000	460000	8700	1400000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: MainHeader-121912

Lab ID#: I212526A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14122831**	**Date of Collection:**	**12/19/12 2:35:00 PM**
Dil. Factor:	**297**	**Date of Analysis:**	**12/28/12 10:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1500	Not Detected	7300	Not Detected
Freon 114	1500	Not Detected	10000	Not Detected
Chloromethane	5900	Not Detected	12000	Not Detected
Vinyl Chloride	1500	Not Detected	3800	Not Detected
1,3-Butadiene	1500	Not Detected	3300	Not Detected
Bromomethane	1500	Not Detected	5800	Not Detected
Chloroethane	5900	Not Detected	16000	Not Detected
Freon 11	1500	Not Detected	8300	Not Detected
Ethanol	5900	Not Detected	11000	Not Detected
Freon 113	1500	Not Detected	11000	Not Detected
1,1-Dichloroethene	1500	Not Detected	5900	Not Detected
Acetone	5900	Not Detected	14000	Not Detected
2-Propanol	5900	Not Detected	14000	Not Detected
Carbon Disulfide	1500	Not Detected	4600	Not Detected
3-Chloropropene	5900	Not Detected	18000	Not Detected
Methylene Chloride	1500	370 J	5200	1300 J
Methyl tert-butyl ether	1500	180 J	5400	670 J
trans-1,2-Dichloroethene	1500	Not Detected	5900	Not Detected
Hexane	1500	380000	5200	1300000
1,1-Dichloroethane	1500	Not Detected	6000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5900	Not Detected	18000	Not Detected
cis-1,2-Dichloroethene	1500	Not Detected	5900	Not Detected
Tetrahydrofuran	1500	Not Detected	4400	Not Detected
Chloroform	1500	Not Detected	7200	Not Detected
1,1,1-Trichloroethane	1500	Not Detected	8100	Not Detected
Cyclohexane	1500	83000	5100	290000
Carbon Tetrachloride	1500	Not Detected	9300	Not Detected
2,2,4-Trimethylpentane	1500	310000	6900	1500000
Benzene	1500	25000	4700	81000
1,2-Dichloroethane	1500	Not Detected	6000	Not Detected
Heptane	1500	80000	6100	330000
Trichloroethene	1500	Not Detected	8000	Not Detected
1,2-Dichloropropane	1500	Not Detected	6900	Not Detected
1,4-Dioxane	5900	Not Detected	21000	Not Detected
Bromodichloromethane	1500	Not Detected	10000	Not Detected
cis-1,3-Dichloropropene	1500	Not Detected	6700	Not Detected
4-Methyl-2-pentanone	1500	Not Detected	6100	Not Detected
Toluene	1500	20000	5600	76000
trans-1,3-Dichloropropene	1500	Not Detected	6700	Not Detected
1,1,2-Trichloroethane	1500	Not Detected	8100	Not Detected
Tetrachloroethene	1500	160 J	10000	1100 J
2-Hexanone	5900	Not Detected	24000	Not Detected

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Client Sample ID: MainHeader-121912

Lab ID#: 1212526A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14122831**	**Date of Collection: 12/19/12 2:35:00 PM**	
Dil. Factor:	**297**	**Date of Analysis: 12/28/12 10:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1500	Not Detected	13000	Not Detected
1,2-Dibromoethane (EDB)	1500	Not Detected	11000	Not Detected
Chlorobenzene	1500	Not Detected	6800	Not Detected
Ethyl Benzene	1500	3900	6400	17000
m,p-Xylene	1500	7300	6400	32000
o-Xylene	1500	1600	6400	6900
Styrene	1500	Not Detected	6300	Not Detected
Bromoform	1500	Not Detected	15000	Not Detected
Cumene	1500	Not Detected	7300	Not Detected
1,1,2,2-Tetrachloroethane	1500	Not Detected	10000	Not Detected
Propylbenzene	1500	Not Detected	7300	Not Detected
4-Ethyltoluene	1500	Not Detected	7300	Not Detected
1,3,5-Trimethylbenzene	1500	Not Detected	7300	Not Detected
1,2,4-Trimethylbenzene	1500	Not Detected	7300	Not Detected
1,3-Dichlorobenzene	1500	Not Detected	8900	Not Detected
1,4-Dichlorobenzene	1500	Not Detected	8900	Not Detected
alpha-Chlorotoluene	1500	Not Detected	7700	Not Detected
1,2-Dichlorobenzene	1500	Not Detected	8900	Not Detected
1,2,4-Trichlorobenzene	5900	Not Detected	44000	Not Detected
Hexachlorobutadiene	5900	Not Detected	63000	Not Detected
Butane	5900	1300000	14000	3000000
Isopentane	5900	1400000	18000	4100000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14122832**	**Date of Collection:**	**12/10/12 3:55:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**12/28/12 10:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	64	Not Detected
Freon 114	13	Not Detected	90	Not Detected
Chloromethane	52	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	33	Not Detected
1,3-Butadiene	13	Not Detected	29	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	52	Not Detected	140	Not Detected
Freon 11	13	Not Detected	73	Not Detected
Ethanol	52	Not Detected	98	Not Detected
Freon 113	13	Not Detected	99	Not Detected
1,1-Dichloroethene	13	Not Detected	51	Not Detected
Acetone	52	17 J	120	41 J
2-Propanol	52	Not Detected	130	Not Detected
Carbon Disulfide	13	Not Detected	40	Not Detected
3-Chloropropene	52	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	13	Not Detected	47	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	51	Not Detected
Hexane	13	84	46	290
1,1-Dichloroethane	13	Not Detected	52	Not Detected
2-Butanone (Methyl Ethyl Ketone)	52	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	51	Not Detected
Tetrahydrofuran	13	Not Detected	38	Not Detected
Chloroform	13	Not Detected	63	Not Detected
1,1,1-Trichloroethane	13	Not Detected	71	Not Detected
Cyclohexane	13	23	44	80
Carbon Tetrachloride	13	Not Detected	81	Not Detected
2,2,4-Trimethylpentane	13	81	60	380
Benzene	13	160	41	520
1,2-Dichloroethane	13	Not Detected	52	Not Detected
Heptane	13	34	53	140
Trichloroethene	13	Not Detected	70	Not Detected
1,2-Dichloropropane	13	Not Detected	60	Not Detected
1,4-Dioxane	52	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	87	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	59	Not Detected
4-Methyl-2-pentanone	13	Not Detected	53	Not Detected
Toluene	13	40	49	150
trans-1,3-Dichloropropene	13	Not Detected	59	Not Detected
1,1,2-Trichloroethane	13	Not Detected	71	Not Detected
Tetrachloroethene	13	Not Detected	88	Not Detected
2-Hexanone	52	Not Detected	210	Not Detected

Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14122832**	**Date of Collection:**	**12/10/12 3:55:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**12/28/12 10:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	60	Not Detected
Ethyl Benzene	13	12 J	56	52 J
m,p-Xylene	13	25	56	110
o-Xylene	13	5.0 J	56	22 J
Styrene	13	Not Detected	55	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	64	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	89	Not Detected
Propylbenzene	13	Not Detected	64	Not Detected
4-Ethyltoluene	13	Not Detected	64	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	64	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	64	Not Detected
1,3-Dichlorobenzene	13	Not Detected	78	Not Detected
1,4-Dichlorobenzene	13	Not Detected	78	Not Detected
alpha-Chlorotoluene	13	Not Detected	67	Not Detected
1,2-Dichlorobenzene	13	Not Detected	78	Not Detected
1,2,4-Trichlorobenzene	52	Not Detected	380	Not Detected
Hexachlorobutadiene	52	Not Detected	550	Not Detected
Butane	52	120	120	280
Isopentane	52	180	150	520

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14123009**	**Date of Collection: 12/12/12 2:30:00 PM**	
Dil. Factor:	**2.70**	**Date of Analysis: 12/30/12 12:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	67	Not Detected
Freon 114	14	Not Detected	94	Not Detected
Chloromethane	54	Not Detected	110	Not Detected
Vinyl Chloride	14	Not Detected	34	Not Detected
1,3-Butadiene	14	Not Detected	30	Not Detected
Bromomethane	14	Not Detected	52	Not Detected
Chloroethane	54	Not Detected	140	Not Detected
Freon 11	14	Not Detected	76	Not Detected
Ethanol	54	16 J	100	30 J
Freon 113	14	Not Detected	100	Not Detected
1,1-Dichloroethene	14	Not Detected	54	Not Detected
Acetone	54	26 J	130	62 J
2-Propanol	54	3.4 J	130	8.4 J
Carbon Disulfide	14	Not Detected	42	Not Detected
3-Chloropropene	54	Not Detected	170	Not Detected
Methylene Chloride	14	Not Detected	47	Not Detected
Methyl tert-butyl ether	14	Not Detected	49	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	54	Not Detected
Hexane	14	2200	48	7900
1,1-Dichloroethane	14	Not Detected	55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	54	5.0 J	160	15 J
cis-1,2-Dichloroethene	14	Not Detected	54	Not Detected
Tetrahydrofuran	14	Not Detected	40	Not Detected
Chloroform	14	Not Detected	66	Not Detected
1,1,1-Trichloroethane	14	Not Detected	74	Not Detected
Cyclohexane	14	500	46	1700
Carbon Tetrachloride	14	Not Detected	85	Not Detected
2,2,4-Trimethylpentane	14	2000	63	9400
Benzene	14	1000	43	3400
1,2-Dichloroethane	14	Not Detected	55	Not Detected
Heptane	14	520	55	2100
Trichloroethene	14	Not Detected	72	Not Detected
1,2-Dichloropropane	14	Not Detected	62	Not Detected
1,4-Dioxane	54	Not Detected	190	Not Detected
Bromodichloromethane	14	Not Detected	90	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	61	Not Detected
4-Methyl-2-pentanone	14	Not Detected	55	Not Detected
Toluene	14	110	51	410
trans-1,3-Dichloropropene	14	Not Detected	61	Not Detected
1,1,2-Trichloroethane	14	Not Detected	74	Not Detected
Tetrachloroethene	14	Not Detected	92	Not Detected
2-Hexanone	54	Not Detected	220	Not Detected

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Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14123009**	**Date of Collection:**	**12/12/12 2:30:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**12/30/12 12:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	100	Not Detected
Chlorobenzene	14	Not Detected	62	Not Detected
Ethyl Benzene	14	27	59	120
m,p-Xylene	14	60	59	260
o-Xylene	14	12 J	59	52 J
Styrene	14	Not Detected	58	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	2.8 J	66	14 J
1,1,2,2-Tetrachloroethane	14	Not Detected	93	Not Detected
Propylbenzene	14	Not Detected	66	Not Detected
4-Ethyltoluene	14	Not Detected	66	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	66	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	66	Not Detected
1,3-Dichlorobenzene	14	Not Detected	81	Not Detected
1,4-Dichlorobenzene	14	Not Detected	81	Not Detected
alpha-Chlorotoluene	14	Not Detected	70	Not Detected
1,2-Dichlorobenzene	14	Not Detected	81	Not Detected
1,2,4-Trichlorobenzene	54	Not Detected	400	Not Detected
Hexachlorobutadiene	54	Not Detected	580	Not Detected
Butane	54	6700	130	16000
Isopentane	54	9100	160	27000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212526A-05A

EPA METHOD TO-15 GC/MS

File Name:	**14122808c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 11:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	9.9 J	38	19 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1212526A-05A

EPA METHOD TO-15 GC/MS

File Name:	**14122808c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 11:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212526A-05B

EPA METHOD TO-15 GC/MS

File Name:	**14123008a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 11:32 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	9.3 J	38	18 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1212526A-05B

EPA METHOD TO-15 GC/MS

File Name:	**14123008a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 11:32 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	0.73 J	23	3.4 J
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1212526A-06A

EPA METHOD TO-15 GC/MS

File Name:	**14122802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 08:06 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	100
Chloromethane	93
Vinyl Chloride	80
1,3-Butadiene	78
Bromomethane	96
Chloroethane	96
Freon 11	96
Ethanol	107
Freon 113	93
1,1-Dichloroethene	97
Acetone	95
2-Propanol	94
Carbon Disulfide	88
3-Chloropropene	90
Methylene Chloride	97
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	95
Hexane	93
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	93
Tetrahydrofuran	97
Chloroform	93
1,1,1-Trichloroethane	95
Cyclohexane	96
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	97
Benzene	89
1,2-Dichloroethane	95
Heptane	96
Trichloroethene	93
1,2-Dichloropropane	94
1,4-Dioxane	101
Bromodichloromethane	95
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	106
Toluene	93
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	97
Tetrachloroethene	100
2-Hexanone	105

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Client Sample ID: CCV

Lab ID#: 1212526A-06A

EPA METHOD TO-15 GC/MS

File Name:	**14122802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 08:06 AM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	99
Chlorobenzene	96
Ethyl Benzene	104
m,p-Xylene	100
o-Xylene	103
Styrene	105
Bromoform	107
Cumene	104
1,1,2,2-Tetrachloroethane	103
Propylbenzene	105
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	132 Q
Hexachlorobutadiene	141 Q
Butane	86
Isopentane	94

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1212526A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14123002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 07:57 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	101
Chloromethane	96
Vinyl Chloride	82
1,3-Butadiene	85
Bromomethane	98
Chloroethane	98
Freon 11	100
Ethanol	117
Freon 113	98
1,1-Dichloroethene	98
Acetone	99
2-Propanol	99
Carbon Disulfide	90
3-Chloropropene	91
Methylene Chloride	100
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	98
Hexane	94
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	94
Tetrahydrofuran	106
Chloroform	96
1,1,1-Trichloroethane	97
Cyclohexane	96
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	100
Benzene	91
1,2-Dichloroethane	98
Heptane	96
Trichloroethene	94
1,2-Dichloropropane	96
1,4-Dioxane	98
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	107
Toluene	93
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	100
Tetrachloroethene	103
2-Hexanone	106

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Client Sample ID: CCV
Lab ID#: 1212526A-06B
EPA METHOD TO-15 GC/MS

File Name:	**14123002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 07:57 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	102
Chlorobenzene	98
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	106
Styrene	107
Bromoform	111
Cumene	104
1,1,2,2-Tetrachloroethane	104
Propylbenzene	106
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	132 Q
Butane	88
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 1212526A-07A

EPA METHOD TO-15 GC/MS

File Name:	**14122804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 09:56 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	101
Chloromethane	99
Vinyl Chloride	87
1,3-Butadiene	85
Bromomethane	94
Chloroethane	94
Freon 11	100
Ethanol	110
Freon 113	96
1,1-Dichloroethene	105
Acetone	100
2-Propanol	94
Carbon Disulfide	110
3-Chloropropene	98
Methylene Chloride	96
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	110
Hexane	90
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	93
Tetrahydrofuran	93
Chloroform	96
1,1,1-Trichloroethane	96
Cyclohexane	93
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	95
Benzene	91
1,2-Dichloroethane	95
Heptane	90
Trichloroethene	93
1,2-Dichloropropane	93
1,4-Dioxane	94
Bromodichloromethane	94
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	94
Toluene	92
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	98
Tetrachloroethene	105
2-Hexanone	92

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Client Sample ID: LCS

Lab ID#: 1212526A-07A

EPA METHOD TO-15 GC/MS

File Name:	**14122804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 09:56 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	102
Chlorobenzene	106
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	104
Styrene	98
Bromoform	101
Cumene	107
1,1,2,2-Tetrachloroethane	111
Propylbenzene	112
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	119
1,2,4-Trichlorobenzene	171 Q
Hexachlorobutadiene	176 Q
Butane	84
Isopentane	95

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1212526A-07AA

EPA METHOD TO-15 GC/MS

File Name:	**14122805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 10:20 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	100
Chloromethane	98
Vinyl Chloride	87
1,3-Butadiene	84
Bromomethane	95
Chloroethane	92
Freon 11	97
Ethanol	96
Freon 113	98
1,1-Dichloroethene	106
Acetone	99
2-Propanol	93
Carbon Disulfide	110
3-Chloropropene	96
Methylene Chloride	98
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	108
Hexane	89
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	92
Tetrahydrofuran	92
Chloroform	95
1,1,1-Trichloroethane	96
Cyclohexane	94
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	95
Benzene	90
1,2-Dichloroethane	95
Heptane	90
Trichloroethene	92
1,2-Dichloropropane	94
1,4-Dioxane	95
Bromodichloromethane	92
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	98
Toluene	91
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	96
Tetrachloroethene	103
2-Hexanone	92

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Client Sample ID: LCSD
Lab ID#: 1212526A-07AA
EPA METHOD TO-15 GC/MS

File Name:	**14122805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/12 10:20 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	99
Chlorobenzene	105
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	104
Styrene	99
Bromoform	100
Cumene	108
1,1,2,2-Tetrachloroethane	112
Propylbenzene	111
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	125
1,2,4-Trichlorobenzene	184 Q
Hexachlorobutadiene	196 Q
Butane	88
Isopentane	95

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1212526A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14123004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 09:12 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	100
Chloromethane	98
Vinyl Chloride	84
1,3-Butadiene	84
Bromomethane	78
Chloroethane	98
Freon 11	102
Ethanol	116
Freon 113	100
1,1-Dichloroethene	105
Acetone	102
2-Propanol	106
Carbon Disulfide	113
3-Chloropropene	106
Methylene Chloride	99
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	110
Hexane	93
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	96
Tetrahydrofuran	99
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	97
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	98
Benzene	91
1,2-Dichloroethane	98
Heptane	92
Trichloroethene	96
1,2-Dichloropropane	98
1,4-Dioxane	102
Bromodichloromethane	100
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	108
Toluene	93
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	102
Tetrachloroethene	105
2-Hexanone	110

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Client Sample ID: LCS

Lab ID#: 1212526A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14123004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 09:12 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	105
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	104
o-Xylene	106
Styrene	112
Bromoform	113
Cumene	109
1,1,2,2-Tetrachloroethane	111
Propylbenzene	111
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	119
1,2,4-Trichlorobenzene	190 Q
Hexachlorobutadiene	203 Q
Butane	82
Isopentane	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1212526A-07BB

EPA METHOD TO-15 GC/MS

File Name:	**14123005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 09:42 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	100
Chloromethane	97
Vinyl Chloride	84
1,3-Butadiene	84
Bromomethane	86
Chloroethane	99
Freon 11	101
Ethanol	104
Freon 113	101
1,1-Dichloroethene	106
Acetone	102
2-Propanol	107
Carbon Disulfide	113
3-Chloropropene	103
Methylene Chloride	99
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	111
Hexane	94
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	95
Tetrahydrofuran	100
Chloroform	99
1,1,1-Trichloroethane	101
Cyclohexane	96
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	98
Benzene	92
1,2-Dichloroethane	99
Heptane	92
Trichloroethene	96
1,2-Dichloropropane	97
1,4-Dioxane	101
Bromodichloromethane	100
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	106
Toluene	93
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	102
Tetrachloroethene	104
2-Hexanone	112

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Client Sample ID: LCSD
Lab ID#: 1212526A-07BB
EPA METHOD TO-15 GC/MS

File Name:	**14123005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/12 09:42 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	106
Chlorobenzene	100
Ethyl Benzene	105
m,p-Xylene	104
o-Xylene	108
Styrene	112
Bromoform	112
Cumene	109
1,1,2,2-Tetrachloroethane	111
Propylbenzene	111
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	142 Q
Hexachlorobutadiene	148 Q
Butane	85
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

1212526

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SC&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 8 0 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 20-Dec-12
PAGE: 1 of 1
PO #:
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wipfler, R. Hart, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDF DELIVERABLE E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY):

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ FDO NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
021	PWHeader-121912	12/19/12	1445	3753	-29	-9.5			X	X	X		
022	MainHeader-121912	12/19/12	1435	5825	-28	-9			X	X	X		
023	EXH-SVE-121012	12/10/12	1555	20359	-29	-7			X	X	X		
024	EXH-SVE-121212	12/12/12	1430	37709	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX		
12/24/12 1753			
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	B. Wuttke ATL 12/26/12 1045		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

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1/8/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212526B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on 1/14/13

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WORK ORDER #: 1212526B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/08/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PWHeader-121912	Modified ASTM D-1945	9.6 "Hg	15 psi
02A	MainHeader-121912	Modified ASTM D-1945	9.6 "Hg	15 psi
03A	EXH-SVE-121012	Modified ASTM D-1945	6.6 "Hg	15 psi
04A	EXH-SVE-121212	Modified ASTM D-1945	7.6 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1945	NA	NA
05B	Lab Blank	Modified ASTM D-1945	NA	NA
06A	LCS	Modified ASTM D-1945	NA	NA
06AA	LCSD	Modified ASTM D-1945	NA	NA
06B	LCS	Modified ASTM D-1945	NA	NA
06BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Isaacs DATE: 01/08/13

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Aecrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Acceredítation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1212526B

Four 1 Liter Summa Canister samples were received on December 26, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Sample EXH-SVE-121012 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: PWHeader-121912

Lab ID#: 1212526B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	77
Methane	0.00030	3.1
Carbon Dioxide	0.030	5.9
Ethane	0.0030	0.00019 J
Propane	0.0030	0.00013 J
Isobutane	0.0030	0.0037
Butane	0.0030	0.033
Neopentane	0.0030	0.00020 J
Isopentane	0.0030	0.069
Pentane	0.0030	0.029
C6+	0.030	0.11

Client Sample ID: MainHeader-121912

Lab ID#: 1212526B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	11
Nitrogen	0.30	78
Methane	0.00030	3.2
Carbon Dioxide	0.030	7.0
Ethane	0.0030	0.00089 J
Propane	0.0030	0.0013 J
Isobutane	0.0030	0.020
Butane	0.0030	0.18
Neopentane	0.0030	0.00079 J
Isopentane	0.0030	0.22
Pentane	0.0030	0.078
C6+	0.030	0.56

Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526B-03A

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	79
Methane	0.00026	0.00031
Carbon Dioxide	0.026	0.78

Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	19
Nitrogen	0.27	80
Methane	0.00027	0.019
Carbon Dioxide	0.027	0.64
Isobutane	0.0027	0.00010 J
Butane	0.0027	0.00078 J
Isopentane	0.0027	0.0010 J
Pentane	0.0027	0.00039 J
C6+	0.027	0.0027 J

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Client Sample ID: PWHeader-121912

Lab ID#: 1212526B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122708**	**Date of Collection: 12/19/12 2:45:00 PM**	
Dil. Factor:	**2.97**	**Date of Analysis: 12/27/12 10:25 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	77
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	3.1
Carbon Dioxide	0.030	5.9
Ethane	0.0030	0.00019 J
Ethene	0.0030	Not Detected
Acetylene	0.0030	Not Detected
Propane	0.0030	0.00013 J
Isobutane	0.0030	0.0037
Butane	0.0030	0.033
Neopentane	0.0030	0.00020 J
Isopentane	0.0030	0.069
Pentane	0.0030	0.029
C6+	0.030	0.11
Hydrogen	0.030	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 42

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: MainHeader-121912

Lab ID#: 1212526B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122709**	**Date of Collection:**	**12/19/12 2:35:00 PM**
Dil. Factor:	**2.97**	**Date of Analysis:**	**12/27/12 10:50 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	11
Nitrogen	0.30	78
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	3.2
Carbon Dioxide	0.030	7.0
Ethane	0.0030	0.00089 J
Ethene	0.0030	Not Detected
Acetylene	0.0030	Not Detected
Propane	0.0030	0.0013 J
Isobutane	0.0030	0.020
Butane	0.0030	0.18
Neopentane	0.0030	0.00079 J
Isopentane	0.0030	0.22
Pentane	0.0030	0.078
C6+	0.030	0.56
Hydrogen	0.030	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 77

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122711**	**Date of Collection:**	**12/10/12 3:55:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**12/27/12 12:50 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	79
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00031
Carbon Dioxide	0.026	0.78
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Acetylene	0.0026	Not Detected
Propane	0.0026	Not Detected
Isobutane	0.0026	Not Detected
Butane	0.0026	Not Detected
Neopentane	0.0026	Not Detected
Isopentane	0.0026	Not Detected
Pentane	0.0026	Not Detected
C6+	0.026	Not Detected
Hydrogen	0.026	Not Detected

Total BTU/Cu.F. = 0.0031
Total Sp. Gravity = 1.0
Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122712**	**Date of Collection:**	**12/12/12 2:30:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**12/27/12 01:22 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	19
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.019
Carbon Dioxide	0.027	0.64
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Acetylene	0.0027	Not Detected
Propane	0.0027	Not Detected
Isobutane	0.0027	0.00010 J
Butane	0.0027	0.00078 J
Neopentane	0.0027	Not Detected
Isopentane	0.0027	0.0010 J
Pentane	0.0027	0.00039 J
C6+	0.027	0.0027 J
Hydrogen	0.027	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.40

Total Sp. Gravity = 0.99

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1212526B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122707a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 09:45 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.0055 J
Nitrogen	0.10	0.045 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1212526B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122706b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 08:57 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Hydrogen	0.010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1212526B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 07:02 AM**	

Compound	%Recovery
Oxygen	101
Nitrogen	101
Carbon Monoxide	100
Methane	96
Carbon Dioxide	101
Ethane	97
Ethene	94
Acetylene	96
Propane	99
Isobutane	100
Butane	97
Neopentane	99
Isopentane	98
Pentane	98
C6+	97

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1212526B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9122726**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 09:24 PM**	

Compound	%Recovery
Oxygen	101
Nitrogen	101
Carbon Monoxide	99
Methane	96
Carbon Dioxide	101
Ethane	98
Ethene	95
Acetylene	96
Propane	100
Isobutane	101
Butane	99
Neopentane	100
Isopentane	98
Pentane	98
C6+	97

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1212526B-06B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9122704b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 12/27/12 07:56 AM	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1212526B-06BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9122727b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 12/27/12 09:57 PM	

Compound	%Recovery
Hydrogen	100

Container Type: NA - Not Applicable

1212526

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 20-Dec-12
PAGE: 1 of 1
PO #:
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): S. Wipfler, R. Hart, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
e-mail to Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
6-11	PWHeader-121912	12/19/12	1445	3753	-29	-9.5			X	X	X		
6-24	MainHeader-121912	12/19/12	1435	5825	-28	-9			X	X	X		
6-22	EXH-SVE-121012	12/10/12	1555	20359	-29	-7			X	X	X		
6-11	EXH-SVE-121212	12/12/12	1430	37709	-29	-9			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature] 12/24/12 1753	FEDEX		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	[signature] ATL 12/26/12 1045		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

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1/14/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212526C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on
1/14/13

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WORK ORDER #: 1212526C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/26/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/14/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PWHeader-121912	Modified TO-3	9.6 "Hg	15 psi
02A	MainHeader-121912	Modified TO-3	9.6 "Hg	15 psi
03A	EXH-SVE-121012	Modified TO-3	6.6 "Hg	15 psi
04A	EXH-SVE-121212	Modified TO-3	7.6 "Hg	15 psi
05A	Lab Blank	Modified TO-3	NA	NA
06A	LCS	Modified TO-3	NA	NA
06AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Loyer DATE: 01/14/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1212526C

Four 1 Liter Summa Canister samples were received on December 26, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample EXH-SVE-121012 was received past the recommended hold time of 14 days. Analysis proceeded.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

The recovery of surrogate Fluorobenzene in sample MainHeader-121912 was outside control limits

due to high level hydrocarbon matrix interference. Data is reported as qualified.

Sample EXH-SVE-121212 was analyzed 1 day past the recommended hold time of 14 days.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: PWHeader-121912

Lab ID#: 1212526C-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	15	61	2900	12000

Client Sample ID: MainHeader-121912

Lab ID#: 1212526C-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	15	61	13000	54000

Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526C-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.065	0.26	3.3	13

Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526C-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.14	0.55	76	310

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Client Sample ID: PWHeader-121912

Lab ID#: 1212526C-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122708**	**Date of Collection: 12/19/12 2:45:00 PM**	
Dil. Factor:	**594**	**Date of Analysis: 12/27/12 02:25 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	15	61	2900	12000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150

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Client Sample ID: MainHeader-121912

Lab ID#: 1212526C-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122709**	**Date of Collection: 12/19/12 2:35:00 PM**	
Dil. Factor:	**594**	**Date of Analysis: 12/27/12 03:18 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	15	61	13000 J	54000 J

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	198 Q	75-150

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Client Sample ID: EXH-SVE-121012

Lab ID#: 1212526C-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122710**	**Date of Collection:**	**12/10/12 3:55:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**12/27/12 03:57 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.065	0.26	3.3	13

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	109	75-150

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Client Sample ID: EXH-SVE-121212

Lab ID#: 1212526C-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122714**	**Date of Collection: 12/12/12 2:30:00 PM**	
Dil. Factor:	**5.40**	**Date of Analysis: 12/27/12 07:20 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.14	0.55	76	310

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	142	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1212526C-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122704a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 09:54 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	0.011 J	0.045 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150

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Client Sample ID: LCS

Lab ID#: 1212526C-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 08:11 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	104	75-150

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Client Sample ID: LCSD

Lab ID#: 1212526C-06AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d122715**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/27/12 08:18 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	127	75-150

1212526

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Mooshegian
PO #:
LOG CODE:

INCIDENT # (ENV SERVICES): 2 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 20-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): S. Wipfler, R. Hart, M. Currier
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Email to Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	PWHeader-121912	12/19/12	1445	3753	-29	-9.5			X	X	X		
02	MainHeader-121912	12/19/12	1435	5825	-28	-9			X	X	X		
03	EXH-SVE-121012	12/10/12	1555	20359	-29	-7			X	X	X		
04	EXH-SVE-121212	12/12/12	1430	37709	-29	-9			X	X	X		

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Custody Seal Intact?
(Y) N None Temp N/A
Fedex

Relinquished by: (Signature) 12/24/12 1753
Received by: (Signature) FEDEX
Date: Time:

Relinquished by: (Signature)
Received by: (Signature) BW Whittaker ATL 12/26/12 1045
Date: Time:

Relinquished by: (Signature)
Received by: (Signature)
Date: Time:

05/2/06 Revision

SVE System O&M 2012 Data Review

Laboratory SDG: 1212600A,B,C

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/14/2013

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Sample Identification	Sample Identification
EXH-SVE-121712	EXH-SVE-121912

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated sample EXH-SVE-121912 was diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 and ASTM D-1945 method blanks. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-15 CCV recoveries for 1,2,4-trichlorobenzene and hexachlorobutadiene were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1212600A-03A	TO-15	Methylene chloride	0.10 ppbv / 0.36 µg/m^3
1212600A-03A	TO-15	trans-1,3-Dichloropropene	0.10 ppbv / 0.46 µg/m^3
1212600A-03A	TO-15	1,4-Dichorobenzene	0.079 ppbv / 0.47 µg/m^3
1212600A-03B	TO-15	Ethanol	4.2 ppbv / 8.0 µg/m^3
1212600C-03A	ASTM D-1945	Oxygen	0.019 %
1212600C-03A	ASTM D-1945	Nitrogen	0.026 %

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
EXH-SVE-121712	TO-15	Methylene chloride	-	**U**
EXH-SVE-121712	TO-15	1,4-Dichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/ LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
1212600A-05B/BB	TO-15	2-Hexanone	**69/69**	0	70-130/25
1212600A-05B/BB	TO-15	1,2,4-Trichlorobenzene	**132/162**	20	70-130/25
1212600A-05B/BB	TO-15	Hexachlorobutadiene	**140/161**	14	70-130/25

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
EXH-SVE-121912	TO-15	2-Hexanone	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1212600A-04B	TO-15	1,2,4-Trichlorobenzene	**135**	70-130
1212600A-04B	TO-15	Hexachlorobutadiene	**146**	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

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1/14/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212600A

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Reviewed on
1/14/2013

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WORK ORDER #: 1212600A

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/28/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/14/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-121712	Modified TO-15	9.2 "Hg	15 psi
02A	EXH-SVE-121912	Modified TO-15	7.6 "Hg	15 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Rogers DATE: 01/14/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1212600A

Two 1 Liter Summa Canister samples were received on December 28, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample EXH-SVE-121912 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.4	1.0 J	3.2	2.3 J
Ethanol	5.8	14	11	27
Acetone	14	19	34	46
2-Propanol	5.8	3.1 J	14	7.6 J
Methylene Chloride	14	0.30 J	50	1.0 J
Hexane	1.4	41	5.1	140
2-Butanone (Methyl Ethyl Ketone)	5.8	3.4 J	17	10 J
Cyclohexane	1.4	9.9	5.0	34
2,2,4-Trimethylpentane	1.4	40	6.8	180
Benzene	1.4	53	4.6	170
Heptane	1.4	11	6.0	44
4-Methyl-2-pentanone	1.4	1.5	6.0	6.1
Toluene	1.4	7.0	5.5	26
Ethyl Benzene	1.4	4.4	6.3	19
m,p-Xylene	1.4	12	6.3	52
o-Xylene	1.4	3.3	6.3	14
Cumene	1.4	1.6	7.2	8.1
Propylbenzene	1.4	0.76 J	7.2	3.7 J
4-Ethyltoluene	1.4	2.1	7.2	10
1,3,5-Trimethylbenzene	1.4	0.82 J	7.2	4.0 J
1,2,4-Trimethylbenzene	1.4	1.8	7.2	8.9
1,4-Dichlorobenzene	1.4	0.13 J	8.7	0.77 J
Butane	5.8	110	14	260
Isopentane	5.8	140	17	410

Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	110	27 J	260	65 J
2-Propanol	110	61 J	260	150 J
Methylene Chloride	27	5.3 J	94	18 J
Hexane	27	2800	95	10000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600A-02A

Cyclohexane	27	650	93	2200
2,2,4-Trimethylpentane	27	2400	130	11000
Benzene	27	1500	86	4700
Heptane	27	580	110	2400
Toluene	27	170	100	630
Ethyl Benzene	27	49	120	210
m,p-Xylene	27	110	120	470
o-Xylene	27	26 J	120	110 J
4-Ethyltoluene	27	9.2 J	130	45 J
1,2,4-Trimethylbenzene	27	5.7 J	130	28 J
Butane	110	8100	260	19000
Isopentane	110	11000	320	34000

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Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123120**	**Date of Collection:**	**12/17/12 1:00:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**12/31/12 08:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	7.2	Not Detected
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	14	Not Detected	30	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	1.0 J	3.2	2.3 J
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.2	Not Detected
Ethanol	5.8	14	11	27
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Acetone	14	19	34	46
2-Propanol	5.8	3.1 J	14	7.6 J
Carbon Disulfide	5.8	Not Detected	18	Not Detected
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	14	0.30 J	50	1.0 J
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Hexane	1.4	41	5.1	140
1,1-Dichloroethane	1.4	Not Detected	5.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	3.4 J	17	10 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.8	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.1	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	9.9	5.0	34
Carbon Tetrachloride	1.4	Not Detected	9.2	Not Detected
2,2,4-Trimethylpentane	1.4	40	6.8	180
Benzene	1.4	53	4.6	170
1,2-Dichloroethane	1.4	Not Detected	5.9	Not Detected
Heptane	1.4	11	6.0	44
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	1.5	6.0	6.1
Toluene	1.4	7.0	5.5	26
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.9	Not Detected
2-Hexanone	5.8	Not Detected	24	Not Detected

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Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123120**	**Date of Collection:**	**12/17/12 1:00:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**12/31/12 08:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.7	Not Detected
Ethyl Benzene	1.4	4.4	6.3	19
m,p-Xylene	1.4	12	6.3	52
o-Xylene	1.4	3.3	6.3	14
Styrene	1.4	Not Detected	6.2	Not Detected
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	1.6	7.2	8.1
1,1,2,2-Tetrachloroethane	1.4	Not Detected	10	Not Detected
Propylbenzene	1.4	0.76 J	7.2	3.7 J
4-Ethyltoluene	1.4	2.1	7.2	10
1,3,5-Trimethylbenzene	1.4	0.82 J	7.2	4.0 J
1,2,4-Trimethylbenzene	1.4	1.8	7.2	8.9
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	0.13 J	8.7	0.77 J
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	110	14	260
Isopentane	5.8	140	17	410

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14123124**	**Date of Collection:**	**12/19/12 12:00:00 P**
Dil. Factor:	**5.40**	**Date of Analysis:**	**12/31/12 09:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	27	Not Detected	130	Not Detected
Freon 114	27	Not Detected	190	Not Detected
Chloromethane	110	Not Detected	220	Not Detected
Vinyl Chloride	27	Not Detected	69	Not Detected
1,3-Butadiene	27	Not Detected	60	Not Detected
Bromomethane	27	Not Detected	100	Not Detected
Chloroethane	110	Not Detected	280	Not Detected
Freon 11	27	Not Detected	150	Not Detected
Ethanol	110	Not Detected	200	Not Detected
Freon 113	27	Not Detected	210	Not Detected
1,1-Dichloroethene	27	Not Detected	110	Not Detected
Acetone	110	27 J	260	65 J
2-Propanol	110	61 J	260	150 J
Carbon Disulfide	27	Not Detected	84	Not Detected
3-Chloropropene	110	Not Detected	340	Not Detected
Methylene Chloride	27	5.3 J	94	18 J
Methyl tert-butyl ether	27	Not Detected	97	Not Detected
trans-1,2-Dichloroethene	27	Not Detected	110	Not Detected
Hexane	27	2800	95	10000
1,1-Dichloroethane	27	Not Detected	110	Not Detected
2-Butanone (Methyl Ethyl Ketone)	110	Not Detected	320	Not Detected
cis-1,2-Dichloroethene	27	Not Detected	110	Not Detected
Tetrahydrofuran	27	Not Detected	80	Not Detected
Chloroform	27	Not Detected	130	Not Detected
1,1,1-Trichloroethane	27	Not Detected	150	Not Detected
Cyclohexane	27	650	93	2200
Carbon Tetrachloride	27	Not Detected	170	Not Detected
2,2,4-Trimethylpentane	27	2400	130	11000
Benzene	27	1500	86	4700
1,2-Dichloroethane	27	Not Detected	110	Not Detected
Heptane	27	580	110	2400
Trichloroethene	27	Not Detected	140	Not Detected
1,2-Dichloropropane	27	Not Detected	120	Not Detected
1,4-Dioxane	110	Not Detected	390	Not Detected
Bromodichloromethane	27	Not Detected	180	Not Detected
cis-1,3-Dichloropropene	27	Not Detected	120	Not Detected
4-Methyl-2-pentanone	27	Not Detected	110	Not Detected
Toluene	27	170	100	630
trans-1,3-Dichloropropene	27	Not Detected	120	Not Detected
1,1,2-Trichloroethane	27	Not Detected	150	Not Detected
Tetrachloroethene	27	Not Detected	180	Not Detected
2-Hexanone	110	Not Detected UJ	440	Not Detected UJ

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Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600A-02A

EPA METHOD TO-15 GC/MS

File Name:	**14123124**	**Date of Collection:**	**12/19/12 12:00:00 P**
Dil. Factor:	**5.40**	**Date of Analysis:**	**12/31/12 09:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	27	Not Detected	230	Not Detected
1,2-Dibromoethane (EDB)	27	Not Detected	210	Not Detected
Chlorobenzene	27	Not Detected	120	Not Detected
Ethyl Benzene	27	49	120	210
m,p-Xylene	27	110	120	470
o-Xylene	27	26 J	120	110 J
Styrene	27	Not Detected	120	Not Detected
Bromoform	27	Not Detected	280	Not Detected
Cumene	27	Not Detected	130	Not Detected
1,1,2,2-Tetrachloroethane	27	Not Detected	180	Not Detected
Propylbenzene	27	Not Detected	130	Not Detected
4-Ethyltoluene	27	9.2 J	130	45 J
1,3,5-Trimethylbenzene	27	Not Detected	130	Not Detected
1,2,4-Trimethylbenzene	27	5.7 J	130	28 J
1,3-Dichlorobenzene	27	Not Detected	160	Not Detected
1,4-Dichlorobenzene	27	Not Detected	160	Not Detected
alpha-Chlorotoluene	27	Not Detected	140	Not Detected
1,2-Dichlorobenzene	27	Not Detected	160	Not Detected
1,2,4-Trichlorobenzene	110	Not Detected	800	Not Detected
Hexachlorobutadiene	110	Not Detected	1200	Not Detected
Butane	110	8100	260	19000
Isopentane	110	11000	320	34000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212600A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123110e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 03:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	0.10 J	17	0.36 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.10 J	2.3	0.46 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1212600A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123110e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 03:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	0.079 J	3.0	0.47 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1212600A-03B

EPA METHOD TO-15 GC/MS

File Name:	**14123109c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	4.2 J	38	8.0 J
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1212600A-03B

EPA METHOD TO-15 GC/MS

File Name:	**14123109c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1212600A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:01 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	101
Chloromethane	105
Vinyl Chloride	101
1,3-Butadiene	105
Bromomethane	112
Chloroethane	102
Freon 11	95
Ethanol	109
Freon 113	105
1,1-Dichloroethene	115
Acetone	109
2-Propanol	113
Carbon Disulfide	108
3-Chloropropene	113
Methylene Chloride	100
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	116
Hexane	123
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	112
Tetrahydrofuran	112
Chloroform	97
1,1,1-Trichloroethane	94
Cyclohexane	116
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	116
Benzene	100
1,2-Dichloroethane	90
Heptane	117
Trichloroethene	97
1,2-Dichloropropane	99
1,4-Dioxane	102
Bromodichloromethane	92
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	117
Toluene	100
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	96
Tetrachloroethene	98
2-Hexanone	118

Client Sample ID: CCV

Lab ID#: 1212600A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:01 AM**	

Compound	%Recovery
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	99
Chlorobenzene	95
Ethyl Benzene	106
m,p-Xylene	109
o-Xylene	114
Styrene	116
Bromoform	99
Cumene	114
1,1,2,2-Tetrachloroethane	91
Propylbenzene	106
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	123
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	94
Butane	100
Isopentane	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1212600A-04B

EPA METHOD TO-15 GC/MS

File Name:	**14123103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 08:41 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	98
Chloromethane	91
Vinyl Chloride	83
1,3-Butadiene	83
Bromomethane	96
Chloroethane	94
Freon 11	97
Ethanol	115
Freon 113	93
1,1-Dichloroethene	96
Acetone	97
2-Propanol	99
Carbon Disulfide	88
3-Chloropropene	88
Methylene Chloride	95
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	96
Hexane	93
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	91
Tetrahydrofuran	100
Chloroform	94
1,1,1-Trichloroethane	94
Cyclohexane	94
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	98
Benzene	89
1,2-Dichloroethane	94
Heptane	94
Trichloroethene	91
1,2-Dichloropropane	94
1,4-Dioxane	104
Bromodichloromethane	96
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	108
Toluene	92
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	95
Tetrachloroethene	99
2-Hexanone	110

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Client Sample ID: CCV

Lab ID#: 1212600A-04B

EPA METHOD TO-15 GC/MS

File Name:	**14123103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 08:41 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	96
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	104
Styrene	109
Bromoform	110
Cumene	107
1,1,2,2-Tetrachloroethane	106
Propylbenzene	108
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	135 Q
Hexachlorobutadiene	146 Q
Butane	88
Isopentane	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1212600A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:15 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	91
Chloromethane	88
Vinyl Chloride	96
1,3-Butadiene	96
Bromomethane	94
Chloroethane	94
Freon 11	85
Ethanol	91
Freon 113	98
1,1-Dichloroethene	110
Acetone	97
2-Propanol	102
Carbon Disulfide	122
3-Chloropropene	122
Methylene Chloride	88
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	120
Hexane	110
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	104
Tetrahydrofuran	97
Chloroform	88
1,1,1-Trichloroethane	86
Cyclohexane	108
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	106
Benzene	90
1,2-Dichloroethane	78
Heptane	103
Trichloroethene	88
1,2-Dichloropropane	89
1,4-Dioxane	86
Bromodichloromethane	81
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	102
Toluene	88
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	88
Tetrachloroethene	90
2-Hexanone	105

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Client Sample ID: LCS

Lab ID#: 1212600A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:15 AM**	

Compound	%Recovery
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	90
Chlorobenzene	88
Ethyl Benzene	97
m,p-Xylene	101
o-Xylene	104
Styrene	105
Bromoform	87
Cumene	105
1,1,2,2-Tetrachloroethane	86
Propylbenzene	98
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	93
Butane	87
Isopentane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1212600A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:50 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	92
Chloromethane	87
Vinyl Chloride	95
1,3-Butadiene	94
Bromomethane	95
Chloroethane	94
Freon 11	84
Ethanol	97
Freon 113	97
1,1-Dichloroethene	112
Acetone	98
2-Propanol	101
Carbon Disulfide	122
3-Chloropropene	122
Methylene Chloride	88
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	120
Hexane	112
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	103
Tetrahydrofuran	96
Chloroform	88
1,1,1-Trichloroethane	86
Cyclohexane	108
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	106
Benzene	88
1,2-Dichloroethane	75
Heptane	102
Trichloroethene	87
1,2-Dichloropropane	86
1,4-Dioxane	86
Bromodichloromethane	80
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	100
Toluene	86
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	87
Tetrachloroethene	88
2-Hexanone	105

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Client Sample ID: LCSD

Lab ID#: 1212600A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3123105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 11:50 AM**	

Compound	%Recovery
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	89
Chlorobenzene	88
Ethyl Benzene	96
m,p-Xylene	100
o-Xylene	104
Styrene	104
Bromoform	87
Cumene	104
1,1,2,2-Tetrachloroethane	84
Propylbenzene	97
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	90
Butane	88
Isopentane	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCS

Lab ID#: 1212600A-05B

EPA METHOD TO-15 GC/MS

File Name:	**14123105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:09 AM**	

Compound	%Recovery
Freon 12	85
Freon 114	86
Chloromethane	86
Vinyl Chloride	76
1,3-Butadiene	73
Bromomethane	82
Chloroethane	79
Freon 11	85
Ethanol	81
Freon 113	82
1,1-Dichloroethene	92
Acetone	91
2-Propanol	80
Carbon Disulfide	95
3-Chloropropene	82
Methylene Chloride	82
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	92
Hexane	76
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	73
cis-1,2-Dichloroethene	75
Tetrahydrofuran	80
Chloroform	81
1,1,1-Trichloroethane	80
Cyclohexane	78
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	80
Benzene	76
1,2-Dichloroethane	81
Heptane	75
Trichloroethene	80
1,2-Dichloropropane	79
1,4-Dioxane	80
Bromodichloromethane	76
cis-1,3-Dichloropropene	71
4-Methyl-2-pentanone	75
Toluene	78
trans-1,3-Dichloropropene	71
1,1,2-Trichloroethane	80
Tetrachloroethene	87
2-Hexanone	69 Q

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Client Sample ID: LCS
Lab ID#: 1212600A-05B
EPA METHOD TO-15 GC/MS

File Name:	**14123105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:09 AM**	

Compound	%Recovery
Dibromochloromethane	77
1,2-Dibromoethane (EDB)	82
Chlorobenzene	87
Ethyl Benzene	80
m,p-Xylene	78
o-Xylene	80
Styrene	74
Bromoform	76
Cumene	84
1,1,2,2-Tetrachloroethane	89
Propylbenzene	88
4-Ethyltoluene	84
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	72
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	132 Q
Hexachlorobutadiene	140 Q
Butane	80
Isopentane	82

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD
Lab ID#: 1212600A-05BB
EPA METHOD TO-15 GC/MS

File Name:	**14123106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:32 AM**	

Compound	%Recovery
Freon 12	82
Freon 114	84
Chloromethane	88
Vinyl Chloride	72
1,3-Butadiene	71
Bromomethane	83
Chloroethane	78
Freon 11	84
Ethanol	89
Freon 113	79
1,1-Dichloroethene	90
Acetone	89
2-Propanol	79
Carbon Disulfide	90
3-Chloropropene	78
Methylene Chloride	82
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	89
Hexane	76
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	75
cis-1,2-Dichloroethene	78
Tetrahydrofuran	78
Chloroform	81
1,1,1-Trichloroethane	80
Cyclohexane	79
Carbon Tetrachloride	80
2,2,4-Trimethylpentane	78
Benzene	74
1,2-Dichloroethane	80
Heptane	74
Trichloroethene	81
1,2-Dichloropropane	79
1,4-Dioxane	79
Bromodichloromethane	75
cis-1,3-Dichloropropene	70
4-Methyl-2-pentanone	78
Toluene	77
trans-1,3-Dichloropropene	71
1,1,2-Trichloroethane	84
Tetrachloroethene	86
2-Hexanone	69 Q

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Client Sample ID: LCSD
Lab ID#: 1212600A-05BB
EPA METHOD TO-15 GC/MS

File Name:	**14123106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:32 AM**	

Compound	%Recovery
Dibromochloromethane	77
1,2-Dibromoethane (EDB)	83
Chlorobenzene	90
Ethyl Benzene	82
m,p-Xylene	84
o-Xylene	84
Styrene	76
Bromoform	77
Cumene	86
1,1,2,2-Tetrachloroethane	93
Propylbenzene	91
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	78
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	162 Q
Hexachlorobutadiene	161 Q
Butane	71
Isopentane	81

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

1212600

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 27-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME/#: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
SITE CONTACT E-MAIL: dave.palmer@urs.com
SAMPLER NAME(S) (Print): R. Hart

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ 1ST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	EXH-SVE-121712	12/17/12	1300	2017	-28	-8.5			X	X	X		
02	EXH-SVE-121912	12/19/12	1200	3489	-26	-7.5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FedEx
Custody Seal Intact?
Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/27/12	Time: 1200
Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 12/28/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/05 Revision

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1/14/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212600B

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1212600B

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/28/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/14/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-121712	Modified TO-3	9.2 "Hg	15 psi
02A	EXH-SVE-121912	Modified TO-3	7.6 "Hg	15 psi
03A	Lab Blank	Modified TO-3	NA	NA
04A	LCS	Modified TO-3	NA	NA
04AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 01/14/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
URS Corporation
Workorder# 1212600B

Two 1 Liter Summa Canister samples were received on December 28, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.073	0.30	1.5	6.0

Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.54	2.2	95	390

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Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d123108**	**Date of Collection: 12/17/12 1:00:00 PM**	
Dil. Factor:	**2.91**	**Date of Analysis: 12/31/12 11:18 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.073	0.30	1.5	6.0

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150

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Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d123107**	**Date of Collection:**	**12/19/12 12:00:00 P**
Dil. Factor:	**21.6**	**Date of Analysis:**	**12/31/12 10:44 AM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.54	2.2	95	390

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	110	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1212600B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d123105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 09:25 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (C2-C10) ref. to Gasoline MW=100	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150

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Client Sample ID: LCS

Lab ID#: 1212600B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d123102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 07:17 AM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	97	75-150

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Client Sample ID: LCSD

Lab ID#: 1212600B-04AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d123122**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 09:31 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	105	75-150

1212600

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moosheglan
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 27-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
EDF DELIVERABLE TO (Name Company Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: elizabeth.kunkel@urs.com
CONSULTANT PROJECT NAME: Roxana SVE O&M
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EMail To Contact ETA/RL: dave.palmer@urs.com
SAMPLER NAME(S) (Print): R. Hart

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY):

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (6h)-TPHg		Sample PID (ppm)
	EXH-SVE-121712	12/17/12	1300	2017	-28	-8.5			X	X	X		
	EXH-SVE-121912	12/19/12	1200	3489	-26	-7.5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fed Ex
Custody Seal Intact?
(Y) N None Temp NA

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 12/27/12	Time: 1200
Relinquished by: (Signature)	Received by: (Signature) Katie Wells ATL	Date: 12/28/12	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/05 Revision

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1/14/2013
Ms. Elizabeth Kunkel
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana SVE O&M
Project #: 21562850.05000
Workorder #: 1212600C

Dear Ms. Elizabeth Kunkel

The following report includes the data for the above referenced project for sample(s) received on 12/28/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1212600C

Work Order Summary

CLIENT:	Ms. Elizabeth Kunkel URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	**BILL TO:**	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-743-4179	**P.O. #**	
FAX:		**PROJECT #**	21562850.05000 Roxana SVE O&M
DATE RECEIVED:	12/28/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/14/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EXH-SVE-121712	Modified ASTM D-1945	9.2 "Hg	15 psi
02A	EXH-SVE-121912	Modified ASTM D-1945	7.6 "Hg	15 psi
03A	Lab Blank	Modified ASTM D-1945	NA	NA
03B	Lab Blank	Modified ASTM D-1945	NA	NA
04A	LCS	Modified ASTM D-1945	NA	NA
04AA	LCSD	Modified ASTM D-1945	NA	NA
04B	LCS	Modified ASTM D-1945	NA	NA
04BB	LCSD	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 01/14/13

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
URS Corporation
Workorder# 1212600C

Two 1 Liter Summa Canister samples were received on December 28, 2012. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*ASTM D-1945*	*ATL Modifications*
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600C-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	79
Methane	0.00029	0.00037
Carbon Dioxide	0.029	0.78

Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600C-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	20
Nitrogen	0.27	79
Methane	0.00027	0.023
Carbon Dioxide	0.027	0.69
Isobutane	0.0027	0.00011 J
Butane	0.0027	0.00092 J
Isopentane	0.0027	0.0012 J
Pentane	0.0027	0.00043 J
C6+	0.027	0.0028 J

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Client Sample ID: EXH-SVE-121712

Lab ID#: 1212600C-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123116**	**Date of Collection:**	**12/17/12 1:00:00 PM**
Dil. Factor:	**2.91**	**Date of Analysis:**	**12/31/12 04:52 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	20
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00037
Carbon Dioxide	0.029	0.78
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Acetylene	0.0029	Not Detected
Propane	0.0029	Not Detected
Isobutane	0.0029	Not Detected
Butane	0.0029	Not Detected
Neopentane	0.0029	Not Detected
Isopentane	0.0029	Not Detected
Pentane	0.0029	Not Detected
C6+	0.029	Not Detected
Hydrogen	0.029	Not Detected

Total BTU/Cu.F. = 0.0037
Total Sp. Gravity = 1.0
Container Type: 1 Liter Summa Canister

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Client Sample ID: EXH-SVE-121912

Lab ID#: 1212600C-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123117**	**Date of Collection:**	**12/19/12 12:00:00 P**
Dil. Factor:	**2.70**	**Date of Analysis:**	**12/31/12 05:22 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	20
Nitrogen	0.27	79
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.023
Carbon Dioxide	0.027	0.69
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Acetylene	0.0027	Not Detected
Propane	0.0027	Not Detected
Isobutane	0.0027	0.00011 J
Butane	0.0027	0.00092 J
Neopentane	0.0027	Not Detected
Isopentane	0.0027	0.0012 J
Pentane	0.0027	0.00043 J
C6+	0.027	0.0028 J
Hydrogen	0.027	Not Detected

J = Estimated value.

Total BTU/Cu.F. = 0.46

Total Sp. Gravity = 1.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1212600C-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123107a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 12:25 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.019 J
Nitrogen	0.10	0.026 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1212600C-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123104ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:58 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	0.0064 J

J = Estimated value.

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1212600C-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:02 AM**	

Compound	%Recovery
Oxygen	101
Nitrogen	100
Carbon Monoxide	98
Methane	98
Carbon Dioxide	101
Ethane	100
Ethene	97
Acetylene	98
Propane	102
Isobutane	103
Butane	101
Neopentane	102
Isopentane	100
Pentane	100
C6+	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1212600C-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123127**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 09:41 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	96
Methane	99
Carbon Dioxide	101
Ethane	100
Ethene	97
Acetylene	99
Propane	103
Isobutane	104
Butane	102
Neopentane	103
Isopentane	101
Pentane	101
C6+	106

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1212600C-04B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9123128b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 12/31/12 10:03 PM	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1212600C-04BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9123129b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/31/12 10:28 PM**	

Compound	%Recovery
Hydrogen	98

Container Type: NA - Not Applicable

1212600

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana SVE O&M
Project # 21562850.05000
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Robert Moshegian
PO #:

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 27-Dec-12
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS, Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110
Bill To/Invoice To (Name Company Cost Center): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
EMAIL: elizabeth_kunkel@urs.com
CONSULTANT PROJECT NAME#: Roxana SVE O&M

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): R. Hart

TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: dave.palmer@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY) _____

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	Modified ASTM D-1945 + BTU	Modified TO-3 (Sh)-TPHg		Sample PID (ppm)
01	EXH-SVE-121712	12/17/12	1300	2017	-28	-8.5			X	X	X		
02	EXH-SVE-121912	12/19/12	1200	3489	-26	-7.5			X	X	X		

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fed Ex
Custody Seal Intact?
Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	12/27/12	1200
Relinquished by: (Signature)	Received by: (Signature) Katie Clark ATL	12/28/12	0940
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

APPENDIX B
SVE SYSTEM LEG FLOW RATES

Date	Red Leg Flow (SCFM)	Blue Leg Flow (SCFM)	Green Leg Flow (SCFM)	Teal Leg Flow (SCFM)	Purple Leg Flow (SCFM)	Brown Leg Flow (SCFM)
04/12/12	32	38	101	41	48	44
04/19/12	24	28	67	34	37	33
04/26/12	29	31	53	35	39	36
05/03/12	23	29	87	35	40	40
05/10/12	31	34	98	35	43	43
05/17/12	31	39	103	43	50	47
05/24/12	28	35	93	37	49	45
06/07/12	31	32	92	43	47	46
06/14/12	33	22	95	48	48	48
06/21/12	32	26	105	43	56	49
06/28/12	24	28	100	125	50	43
07/05/12	26	37	100	41	47	43
07/12/12	36	47	113	46	52	51
07/19/12	31	44	110	44	52	48
07/26/12	28	43	112	40	54	49
08/02/12	34	46	119	47	56	51
08/09/12	35	46	116	43	56	51
08/23/12	38	50	126	55	59	59
08/30/12	41	55	134	57	66	64
09/06/12	38	53	129	56	63	64
09/13/12	43	56	134	65	67	71
09/20/12	53	77	128	86	88	93
09/27/12	56	79	179	91	93	95
10/11/12	67	54	190	33	112	113
10/18/12	60	46	164	28	100	102
10/26/12	45	32	152	14	71	79
11/01/12	55	79	180	125	93	94
11/16/12	52	71	170	236	93	90
11/29/12	51	73	172	115	53	87
12/04/12	29	37	81	54	41	42

APPENDIX C
TOTAL HEADER HYDROCARBON CONCENTRATIONS

Date	West Fenceline Concentration (ppmv)	Public Works Concentration (ppmv)
4/12/2012	134,000	517,000
4/19/2012	59,300	611,000
4/26/2012	113,000	476,000
5/3/2012	87,400	340,000
5/10/2012	165,000	410,000
5/17/2012	132,000	350,000
5/24/2012	115,000	352,000
6/7/2012	101,000	203,000
6/14/2012	101,000	176,000
6/21/2012	117,000	239,000
6/28/2012	106,000	292,000
7/5/2012	98,100	212,000
7/12/2012	85,150	127,000
7/19/2012	105,000	225,000
7/26/2012	103,000	195,000
8/2/2012	103,000	202,000
8/9/2012	95,600	154,000
8/23/2012	53,800	120,000
8/30/2012	76,200	140,000
9/6/2012	102,000	181,000
9/13/2012	67,200	143,000
9/20/2012	68,100	205,000
9/27/2012	62,600	156,000
10/11/2012	79,900	205,000
10/18/2012	47,600	185,000
10/26/2012	21,400	176,000
11/1/2012	20,200	215,000
11/16/2012	25,900	103,000
11/29/2012	17,600	191,000
12/6/2012	64,300	170,000

APPENDIX D
SVE SYSTEM FLOW RATES

Date	West Fenceline Header (SCFM)	Public Works Header (SCFM)
4/12/2012	262	41
4/19/2012	189	34
4/26/2012	765	35
5/3/2012	772	35
5/10/2012	251	35
5/17/2012	270	43
5/24/2012	352	37
6/7/2012	570	43
6/14/2012	334	48
6/21/2012	355	43
6/28/2012	333	125
7/5/2012	340	41
7/12/2012	361	46
7/19/2012	348	44
7/26/2012	349	40
8/2/2012	307	47
8/9/2012	305	43
8/23/2012	333	55
8/30/2012	359	57
9/6/2012	347	56
9/13/2012	371	65
9/20/2012	439	86
9/27/2012	501	91
10/11/2012	958	33
10/18/2012	894	28
10/26/2012	467	14
11/1/2012	588	125
11/16/2012	477	236
11/29/2012	436	115
12/4/2012	230	54