Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

Groundwater	Leachate
___ Quarterly - Enter: 1, 2, 3, or 4	___ Quarterly - Enter: 1, 2, 3, or 4
☐ Semi-Annual	☐ Semi-Annual
☐ Annual	☐ Annual
☐ Biennial	☐ Biennial

☑ Groundwater Data (without LPC-160 Forms)

4 Quarterly - Enter: 1, 2, 3, or 4 ☐ Annual ☐ Semi-Annual ☐ Biennial

☐ Well Construction Information

- ☐ Well Construction Forms, Boring Logs and/or Abandonment Forms
- ☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination (35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater (35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☐ Other (identify)

_____

_____

AECOM
1001 Highlands Plaza Drive West
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January 12, 2017

Ms. Joyce Munie, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Groundwater Monitoring Report – 4th Quarter 2016
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43-CA-21

Dear Ms. Munie:

On behalf of Shell Oil Products US (SOPUS), AECOM is submitting the enclosed referenced report and RCRA Facility Groundwater, Leachate and Gas Reporting Form for your review. This sampling was required by Condition 7 of the Agency's letter dated August 5, 2010.

If you have any questions during your review, please contact Kevin Dyer, SOPUS Senior Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@aecom.com (314/743-4108).

Sincerely,

AECOM, on behalf of Shell Oil Products US



Lindsay Rathnow
Geologist



Robert E. Mooshegian, CHMM
Senior Program Manager

Enclosures: 4th Quarter 2016 Report, Roxana Interim Groundwater Monitoring Program
RCRA Facility Groundwater, Leachate and Gas Reporting Form
(Original plus 1 copy)

cc: Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Amy Boley, IEPA, Springfield
Gina Search, IEPA, Collinsville
Lori Littrell, Atlantic Richfield Company
Shannon Haney, Greensfelder, Hemker & Gale P.C.
Repositories – Village Hall, Roxana Public Library, website

AECOM

Design and Consulting Services Environment

Submitted to:
Illinois Environmental Protection Agency - Bureau of Land
1021 North Grand Ave. East
Springfield, IL 62794

Submitted by:
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4th Quarter 2016 Report Roxana Interim Groundwater Monitoring Program

Prepared for:
Shell Oil Products US
Roxana, Illinois

January 2017
Project 60477387

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1 Introduction

AECOM Technical Services Inc. (AECOM) is submitting this report on behalf of Shell Oil Products US (SOPUS) for the 4th Quarter 2016 (4Q16) groundwater monitoring well gauging and sampling conducted in the Village of Roxana, Illinois (**Figure 1**). The study area within the Village of Roxana (Village) is generally bounded by the alley north of First Street, Illinois Route 111, the West Fenceline of the WRB Refining, LP (WRB)[1] Wood River Refinery (WRR), and the Roxana Public Works Yard. Some groundwater monitoring wells within the WRR were also sampled as part of this event; this was conducted in cooperation with WRB/Phillips 66 (P66)[2]. For purposes of presentation in this report only, the combined area is collectively referred to as the "Investigation Area."

In an August 5, 2010 letter from the Illinois Environmental Protection Agency (IEPA) to SOPUS (IEPA, 2010a), IEPA requested various site characterization and monitoring activities, along with initiation of the Interim Groundwater Monitoring Program. This program began in 4th Quarter 2010 (4Q10), and the first report was submitted on January 14, 2011. On March 3, 2011, a conference call was held among representatives of SOPUS, IEPA, and URS Corporation (URS) to discuss the groundwater monitoring program and IEPA's general comments on the 4Q10 report. Subsequent modifications were incorporated during the 1st Quarter 2011 (1Q11) and 2nd Quarter 2011 (2Q11) Interim Groundwater Monitoring Program. Additional items and comments regarding the Interim Groundwater Monitoring Program were presented by IEPA in June 16, 2011 (IEPA, 2011a) and August 31, 2011 (IEPA, 2011b) letters. These items and comments were addressed in the 3rd Quarter 2011 (3Q11) and 4th Quarter 2011 (4Q11) reports.

In a March 14, 2012 letter (CA-24) from IEPA to SOPUS (IEPA, 2012a), IEPA requested groundwater piezometer ROST-3-PZ and groundwater monitoring well ROST-4-PZ(C) be added to the program. These monitoring locations were added to the program in 2nd Quarter 2012 (2Q12), and the results are incorporated into this report.

In a second letter (CA-25), dated March 14, 2012, from IEPA to SOPUS (IEPA, 2012b), IEPA requested that perched groundwater be evaluated at the following existing groundwater monitoring piezometers: P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ. These perched groundwater monitoring piezometers were incorporated into the program beginning in 2Q12 and continue to be evaluated. In a letter dated August 16, 2013 (URS, 2013b), URS, on behalf of SOPUS, informed the IEPA of the determination that the perched groundwater monitoring piezometers are either dry, based on the criteria given in their March 14, 2012 letter, or not able to be sampled per the groundwater sampling standard operating procedure (SOP) due to slow recharge. The IEPA, during phone conversations, requested that certain piezometers remain in the program. In response to this request, a letter dated January 14, 2014 was submitted to IEPA (URS, 2014b), stating that these piezometers will remain in the program. A separate letter dated January 14, 2014 was submitted to the IEPA (URS, 2014a), requesting removal of ROST-5-PZ and ROST-10-PZ based on Condition 8(a) of the March 14, 2012 IEPA letter (CA-25), which states that ROST-5-PZ and ROST-10-PZ must remain within the program for one year before the determination is made that these wells are dry. IEPA responded to the August 16, 2013 and both January 14, 2014 letters in a correspondence dated July 27, 2016 (IEPA, 2016b). In the July 27, 2016 letter, IEPA approved the request to abandon perched wells P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ and remove them from the program. Abandonment activities were conducted on September 15, 2016.

[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.

In the March 14, 2012 letter (CA-25), IEPA also requested the installation of groundwater monitoring wells in the Village to evaluate potential light non-aqueous phase liquid (LNAPL). These groundwater monitoring wells (MW-16 through MW-22 and MW-24) were installed during 4th Quarter 2012 (4Q12)) and incorporated into the Interim Groundwater Monitoring Program beginning in 1st Quarter 2013 (1Q13).

On May 31, 2012, IEPA verbally requested the following be incorporated into the 2Q12 report:

- The ROST-4 series of groundwater monitoring wells and piezometers in the groundwater elevation contour maps;
- A groundwater contour map focusing on the West Fenceline area in the Village; and
- A Roxana site and WRR LNAPL map.

In an April 8, 2013 letter from IEPA to SOPUS (IEPA, 2013a), IEPA requested a discussion of irregular potentiometric contours in the ROST-4-PZ area and P-60 area wells. This response was submitted to the IEPA in a letter dated July 29, 2013 (URS, 2013a). In a letter dated July 27, 2016 (IEPA, 2016c), IEPA approved the July 29, 2013 letter with the following conditions and modifications:

- Address the potentiometric high in the northern portion of the Study Area, by submitting a proposal within 120 days, which at a minimum will include:
- A proposal to install nested wells that will track the area of the low-permeability zone.
- The nested wells must be adequate to verify groundwater quality, flow direction, and hydraulic gradient, and these wells should show that pumping overcomes potential radial flow.
- A text section must be added to the Interim Groundwater Monitoring Program quarterly reports to provide a detailed discussion of the potentiometric surface in this area.

AECOM responded to the July 27, 2016 letter in a letter dated October 14, 2016 (AECOM, 2016c). A response to this letter is pending as of the date of this report.

In a July 18, 2013 letter from IEPA to SOPUS (IEPA, 2013b), IEPA approved a change in gauging frequencies for wells in the Interim Groundwater Monitoring Program. The list of wells to be gauged on a weekly basis was reduced and a new list of wells to be gauged on a monthly basis was initiated. This letter also requested that any free phase hydrocarbon (FPH) and photoionization detector (PID) data collected at the well heads be included in the quarterly groundwater monitoring reports. The modified gauging frequencies for wells began the week of July 22, 2013. The list of wells gauged during each routine event is reviewed on a regular basis and modified to meet the conditions requested by the IEPA. The additional reporting requirements were first incorporated in the 3rd Quarter 2013 (3Q13) report.

In a June 13, 2014 letter from IEPA to SOPUS (IEPA, 2014a), IEPA requested the installation of four groundwater monitoring wells in the Village to monitor the extent and effectiveness of corrective action efforts within the residential area. The access agreement with the Village was signed on August 12, 2014, and well installation began in September 2014 and was completed in October 2014. These groundwater monitoring wells (MW-25 through MW-28) were added to the Interim Groundwater Monitoring Program in 4th Quarter 2014 (4Q14).

In an October 9, 2014 letter from IEPA to SOPUS (IEPA, 2014b), IEPA approved the installation plan for a groundwater monitoring well located on BP property with certain conditions and modifications. Well MW-23 was installed during January 2015 and was added to the Interim Groundwater Monitoring Program in 1st Quarter 2015 (1Q15).

In a letter dated November 25, 2014 (IEPA, 2014c), IEPA approved the proposed plan for groundwater corrective action (submitted to IEPA on November 14, 2013 (URS, 2013c)), with the following conditions:

- The 1Q15 groundwater samples obtained from: (1) the current monitoring well network; (2) the four new wells required by the modified Resource Conservation and Recovery Act (RCRA) Post-Closure Permit (Permit) at the WRR, issued September 23, 2010 (modified June 13, 2014) (IEPA, 2010b); and (3) the new well required by the

October 9, 2014, letter must be used in a demonstration to verify the extent of groundwater contamination has been delineated; or

- If SOPUS cannot define the extent of contamination, a proposal for additional investigation must be submitted.

On April 16, 2015, AECOM, on behalf of SOPUS, submitted a demonstration to verify the extent of groundwater contamination has been delineated (AECOM, 2015). The demonstration is based on monitoring data from wells in the Roxana Interim Groundwater Monitoring Program. Additional information was submitted to IEPA in a letter dated January 29, 2016 (AECOM, 2016a). In a letter dated February 23, 2016 (IEPA, 2016a), IEPA agreed with this determination and required a Groundwater Management Zone (GMZ) proposal be submitted within 90 days. The GMZ proposal was submitted by AECOM, on behalf of SOPUS, on May 19, 2016 (AECOM, 2016b). A response to this proposed GMZ is pending as of the date of this report.

On December 5, 2014, a letter was submitted to IEPA by URS (URS, 2014c), on behalf of SOPUS, requesting a reduction in the routine gauging performed as part of the Interim Groundwater Monitoring Program. A response to this request is pending as of the date of this report.

In a letter dated May 22, 2015, IEPA provided approval for the April 3, 2013, Groundwater Monitoring Well and Vapor Monitoring Point Installation Report (IEPA, 2015).

Groundwater samples were collected and analyzed during 4Q16 to meet the requirements of the Interim Groundwater Monitoring Program, as specified in the above guidance. **Figure 2** shows the groundwater monitoring wells that were sampled during 4Q16 as part of the interim monitoring well network.

2 Groundwater Sampling and Analytical Procedures

The groundwater monitoring well gauging, sample collection, and analytical procedures are discussed in this section. Gauging and sampling procedures are based on the Interim Groundwater Monitoring Program, as outlined in the IEPA's letter dated August 5, 2010 (IEPA, 2010a), and as modified based on other correspondence outlined in **Section 1**.

2.1 Additional Activities or Modifications

The following additional work activities or modifications were conducted during 4Q16:

- Perched wells P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ were removed from the Interim Groundwater Monitoring Program and were abandoned on September 15, 2016. Documentation of the well abandonments was submitted to the IEPA in a letter dated October 12, 2016 (AECOM, 2016e).
- A groundwater sample was collected from MW-21 on November 29, 2016, to assess analytical results in near-by vapor monitoring ports. Data associated with sampling of MW-21 is provided in **Appendix A**.

2.2 Groundwater Monitoring Well Gauging and Sampling

Groundwater Monitoring Well Gauging

The comprehensive quarterly groundwater monitoring well gauging event was conducted between October 3 and 5, 2016. The 4Q16 gauging activities were conducted in conjunction with the 4Q16 gauging event for the WRR to evaluate groundwater flow direction and identify possible LNAPL in the Investigation Area. Depth to LNAPL (if present) and depth to water were noted in electronic format using Panasonic Toughbook® technology (Toughbook®), or similar, and on groundwater field gauging sheets. Quarterly groundwater monitoring well gauging results can be found in **Table 1a**. Weekly and monthly gauging data are collected from a subset of the quarterly program wells to assess the absence or presence of LNAPL. Monthly and weekly gauging results for 4Q16 can be found in **Table 1b**. The groundwater gauging data tables also include well-head PID results.

Low-Flow Groundwater Purging and Sampling

Groundwater samples were collected from groundwater monitoring wells from October 6 through 18, 2016. Data are included in this report and discussed in **Section 3**.

Groundwater samples were collected via low-flow groundwater purging and sampling procedures. Prior to groundwater monitoring well sampling, the initial water level was measured and recorded in the Toughbook® and on groundwater field data sheets.

Groundwater monitoring wells MW-1 through MW-14, MW-16, MW-22 through MW-28, P-54, P-56 through P-59, P-66, P-74, P-93A, P-93C, P-114R, ROST-3-MW, ROST-4-PZ(C), and T-12 were purged and sampled using a Proactive™ Stainless Steel Monsoon Pump (Monsoon), low-flow controller, and designated[3] polyethylene tubing. The Monsoon and designated polyethylene tubing were slowly lowered into the groundwater monitoring well to be sampled and set with the Monsoon intake near the midpoint of the groundwater monitoring well screen.

[3] All designated tubing is stored in a sealed bag designated for a particular groundwater monitoring well between sampling events.

Groundwater monitoring wells P-93B and P-93D were purged and sampled using dedicated stainless steel QED Environmental Systems (QED) Well Wizard® groundwater sampling pumps (Well Wizard) and dedicated bonded polyethylene tubing. The Well Wizards typically have a length of 42 inches, an outside diameter of 1.5 inches, and a Teflon® bladder capacity of approximately 495 milliliters. The Well Wizard and associated bonded polyethylene tubing are dedicated to each well and remain in place between sampling events. The dedicated pump intake is positioned near the midpoint of the well screen and the pump is operated using a QED MP50 Micropurge Controller/Compressor.

For both sampling methods, the tubing from the sampling pump was connected to a flow-through cell, which discharged into a 5-gallon plastic container. Pumping was performed at a low flow rate (≤ 400 mL/minute) to minimize drawdown of the water level within the groundwater monitoring well. During groundwater purging, water quality parameters (pH, temperature, specific conductivity, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP)) were measured and recorded on the groundwater field data sheets after every flow-through cell volume. Purging continued until a minimum of three flow-through cell volumes of water were removed and the groundwater quality parameters stabilized, or a maximum purge time of two hours was reached. The final water quality parameters were recorded in the Toughbook® and on groundwater field data sheets. Once stabilization was achieved or a maximum purge time of two hours was reached, the groundwater flow was diverted from the flow-through cell and groundwater samples were collected for volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis.

Groundwater monitoring wells P-55R and P-68, located inside the WRR, contained LNAPL and, therefore, were not sampled. Groundwater sampling field parameters can be found in **Table 2**, and groundwater sampling data sheets are included in **Appendix B**.

2.3 Health & Safety, Decontamination, and Investigative Derived Waste

Health & Safety

The quarterly sampling activities were performed in general accordance with the project-specific Health and Safety Plan (HASP), dated September 1, 2016 – September 1, 2017 (AECOM, 2016f).

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 safety analyses (JSAs) were reviewed to address task specific safety concerns.

AECOM field personnel 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) lamp, combustible gas indicator (CGI), and individual hydrogen sulfide gas detectors (for locations inside WRR) were used during the field activities to monitor air quality. A benzene gas monitor with a 9.8 eV lamp was available during field activities to monitor benzene levels, if necessary. Field instruments were calibrated prior to use each day in accordance with the manufacturers' 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. Reusable sampling equipment (e.g., groundwater pump) was decontaminated after each sample location by spraying and/or wiping down with isopropyl alcohol, then washing with LiquiNox® and distilled water, and finishing with a distilled water rinse. The wash and rinse water were replaced periodically throughout the day, at least at mid-day. Interface probes were decontaminated by wiping down with isopropyl alcohol and LiquiNox® followed by a distilled water rinse. Personnel and small equipment decontamination were performed at the sample locations.

Investigative Derived Waste

Investigative derived waste (IDW), such as purge water and decontamination fluid generated during groundwater sampling activities, was collected, stored, and disposed in accordance with the RCRA and United States Department of Transportation (DOT) regulations. Expendable materials (e.g., disposable sampling equipment such as gloves and tubing) were decontaminated, if necessary, collected in trash bags, and disposed as municipal waste.

Decontamination fluid and purge water from groundwater monitoring wells MW-4, MW-7, MW-8, and MW-25 were initially collected in 5-gallon plastic containers, then transferred to a 55-gallon steel drum, which was staged at the Public Works Yard (satellite accumulation area), and removed by Heritage Environmental Services, LLC (Heritage) within 48 hours. This material is managed as hazardous waste based on prior characterization and was disposed at the Heritage facility in Indianapolis, Indiana.

Decontamination fluid and purge water from other groundwater monitoring wells in the Village were initially collected in 5-gallon plastic containers then transferred to 55-gallon steel drums located near the northeastern portion of the former Tannery Property (designated staging area). This material is managed as non-hazardous waste based on prior characterization and was disposed at the Heritage facility in Indianapolis, Indiana.

Decontamination fluid and purge water related to, or generated from, work within the WRR was collected and discharged through the WRR's National Pollutant Discharge Elimination System (NPDES)-permitted Wastewater Treatment Plant (WWTP).

2.4 Groundwater Sample Handling and Laboratory Testing

Samples were collected in pre-preserved laboratory-supplied containers and labeled in the field. Sample information was recorded on a chain of custody (COC) form at the time of collection. The sample ID format is "well ID-ROX-date". COCs are included with laboratory analytical reports in **Appendix C**.

Upon collection and labeling, sample containers were immediately placed inside an iced cooler and packed in such a way as to help prevent breakage and maintain sample temperature within 0-6°C without freezing. The samples were then delivered via overnight courier, under the proper COC documentation, to TestAmerica Laboratories, Inc. (TestAmerica) in Pensacola, Florida[4] for analysis.

Samples were analyzed by TestAmerica for VOCs via USEPA Methods 8260B and 8011, for SVOCs via USEPA Method 8270D, and for Polycyclic Aromatic Hydrocarbons (PAHs) via USEPA Method 8270D Low Level (LL). USEPA Method 8011 was used for select VOCs (1,2-dibromoethane and 1,2-dibromo-3-chloropropane) in order to achieve lower reporting limits specified in the WRR RCRA Part B Permit (IEPA, 2010b). Per direction from IEPA, the Interim Groundwater Monitoring Program concentration limits need to be consistent with those in the Permit.

2.5 Data Quality Review and Data Management

Laboratory data were provided in electronic form and included data qualifiers on the basis of the laboratory's quality control or to indicate sample analysis information. The data were independently reviewed and qualified by AECOM. One hundred percent of the data were subjected to a data quality review. Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2016). Data qualifiers were also added by AECOM, as appropriate, and are included on **Table 3** and in the laboratory results in **Appendix C**. The results of the data quality review are discussed in **Section 3.2**.

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

[4] AECOM was awarded a contract with Shell Oil Products US, effective October 1, 2015, to provide environmental consulting services. During the procurement process, AECOM obtained proposals for analytical services from several laboratories. TestAmerica Laboratories, Inc. was selected as AECOM's primary laboratory.

The following documentation was completed and supplements the COC records:

- Field logbooks;
- Equipment calibration forms;
- Groundwater field gauging sheets;
- Groundwater field data sheets;
- Field sample collection data via electronic Toughbook®; and
- Safety documentation.

3 Groundwater Sampling Results

This section presents the results of the 4Q16 groundwater gauging and sampling event.

3.1 Groundwater Monitoring Well Gauging Results

The comprehensive quarterly groundwater monitoring well gauging for the 4Q16 event was conducted between October 3 and 5, 2016. This groundwater monitoring well gauging was conducted in accordance with the Interim Groundwater Monitoring Program, and the results can be found in **Table 1a**. Groundwater levels in the vicinity of the West Fenceline have risen approximately one-half to one foot since 3rd Quarter 2016 (3Q16). Groundwater levels in most wells in the WRR have risen approximately one to three feet since 3Q16. Water levels are above the top of the screens in the majority of the wells gauged during the 4Q16 event. Water levels are within the screened intervals for less than half of the wells along the West Fenceline. The potentiometric surface observed during the 4Q16 groundwater monitoring well gauging (**Figures 3a and 3b**) illustrates groundwater flow toward the WRR groundwater production wells.

During the 4Q16 quarterly groundwater monitoring well gauging event, LNAPL was detected in three Interim Groundwater Monitoring Program groundwater monitoring wells. All of these monitoring wells (P-55R, P-60, and P-68) are located in the WRR (**Table 1a**). In these wells, LNAPL thicknesses ranged from 0.05 to 0.17 feet. LNAPL was observed above the screened intervals of P-55R, P-60, and P-68.

During 4Q16 weekly and monthly gauging events, LNAPL was detected in three groundwater monitoring wells. All of these wells are located in the WRR (P-55R, P-60, and P-68). This routine gauging data can be found in **Table 1b**. Ranges of LNAPL thicknesses throughout 4Q16 are summarized in the table below.

Monitoring Well	Range of LNAPL Thickness (feet)	Comments
P-55R	0.02 - 0.24	Observed in 13 of 13 weeks
P-60	0.01 - 0.06	Observed in 10 of 13 weeks
P-68	0.02 - 0.07	Observed in 13 of 13 weeks

LNAPL observed in groundwater monitoring wells located on the WRR property was removed and placed in a double-walled lube cube, which is staged on WRR North Property, prior to being taken to the WRR oil-water separators for reprocessing. Removal of LNAPL, if observed exceeding the minimum thickness for recovery (0.10 feet) in the Village and WRR, is conducted during quarterly, monthly, and weekly gauging events. **Figures 4a** and **4b** illustrate the measured LNAPL thickness observed along the West Fenceline and inside the refinery, respectively, during the 4Q16 gauging event.

3.2 Data Quality Review Results

A total of thirteen sample delivery groups (SDGs) were prepared and sent to TestAmerica for the 4Q16 event. Fifty different groundwater sample sets were prepared and analyzed for VOCs and SVOCs (including PAHs). This included forty different investigative sample sets, four field duplicate sets, and three matrix spike/matrix spike duplicate (MS/MSD) sets. SDGs for 4Q16 are presented in **Appendix C**.

Trip blanks (TBs), equipment blanks (EBs), and laboratory method blanks were analyzed to evaluate for the existence and magnitude of any contamination resulting from field and laboratory activities. Four different EB sets were collected for this quarter. A TB set was included in every cooler that contained samples for VOC analysis. A

total of thirteen TB sets were analyzed for groundwater VOCs. Laboratory method blanks were analyzed with every analytical batch.

Additionally, a sample was collected from MW-21 on November 29, 2016, and sent to TestAmerica for analysis of Method 8260B VOCs. The SDG for investigative sample MW21-ROX-112916 included a field duplicate, equipment blank, and trip blank (see **Appendix A)**.

Based on laboratory control sample (LCS), MS/MSD, surrogate, holding time, and field duplicate criteria, the groundwater analytical results reported were accepted for their intended use. Analytical results qualified by AECOM are specified in the data reviews presented in **Appendices A** and **C**.

3.3 Analytical Results and Discussion

Table 2 presents cumulative information on groundwater sampling field parameters for main aquifer wells. These results are consistent with those observed in the 3Q16 sampling event. The laboratory analytical results for the groundwater samples collected during this event are presented in **Table 3**.

Analytical detections were compared to the concentration limits as provided in Condition IV(E) of the Permit for the WRB Refining LP Wood River Refinery[5]. These concentration limits include the Groundwater Quality Standards for Class I: Potable Resource Groundwater (35 IAC 620, Subpart D, Section 410) (Part 620), the IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route (35 IAC 742 Appendix B, Table E), and the IEPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables). Where screening values were available from multiple sources from the ones mentioned above, screening values from Part 620 were used preferentially over the screening values found in TACO and Chemicals not in TACO sources. All three sources are checked on a quarterly basis to ensure the most current published screening values are being used. The results of this screening comparison are presented in **Table 3**.

Samples from eighteen groundwater monitoring wells in the Interim Groundwater Monitoring Program (eight in the Village, ten in the WRR along the West Fenceline) exhibited exceedances of the groundwater screening criteria for one or more of the following constituents:

- Benzene
- Naphthalene
- 1,3,5-Trimethylbenzene
- 2-Methylnaphthalene
- Ethylbenzene
- Toluene
- bis(2-Ethylhexyl)phthalate
- Phenol

Figure 5 presents concentrations of analytes that exceeded the indicated screening criteria for 4Q16. **Figure 6** presents a plan view depiction of benzene analytical results in groundwater across the site. **Figure 7** presents a cross-section along Chaffer Avenue with a vertical distribution of the benzene concentrations in groundwater superimposed. **Figure 8** presents a cross-section across the Roxana Public Works Yard with a vertical distribution of the benzene analytical results in groundwater superimposed.

AECOM conducted the 4Q16 Interim Groundwater Monitoring Program, and the following conclusions are based on the data and information collected as part of this program:

- During 4Q16, groundwater level data indicates groundwater flow from the Investigation Area is moving toward groundwater production wells at the WRR. Groundwater levels observed in the vicinity of the West Fenceline had risen approximately one-half to one foot since the previous quarter. Groundwater levels observed in most monitoring wells in the WRR had risen approximately one to three feet since the previous quarter.

[5] IEPA requested that the Interim Groundwater Monitoring Program be consistent with the RCRA Part B Permit.

- The analytical results from 4Q16 are generally similar to those from previous quarters with the exception of a few wells in which the benzene concentrations decreased but were still within historic ranges.

3.4 Limitations

SOPUS shall have the right to make and retain copies of and use all Work Product provided. However, such use shall be limited to the particular Site and project for which the Work Product is provided. SOPUS and its agents may release the Work Product to third parties at its sole risk and discretion. This report is based on data, site conditions, and other information that is generally applicable as of the date of this report, and the conclusions and recommendations herein are therefore applicable only to that time frame and to the report in its entirety.

Data used by AECOM in preparing this report have been furnished to AECOM by SOPUS, SOPUS' contractors, and P66. AECOM has relied on this information as furnished, and is neither responsible for, nor has confirmed the accuracy of this information.

4 References

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Tables

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-01											
1Q14	442.65	2/10/2014	NE	42.77	NA	NA	NA	399.88	393.85 - 383.85 (48.80 - 58.80)	5.8	*
2Q14		4/1/2014	NE	43.17	NA	NA	NA	399.48		18.9	*
3Q14		7/1/2014	NE	42.22	NA	NA	NA	400.43		1.3	*
4Q14		10/1/2014	NE	41.11	NA	NA	NA	401.54		0.0	*
1Q15		1/6/2015	NE	42.64	NA	NA	NA	400.01		43.9	*
2Q15		4/2/2015	NE	44.11	NA	NA	NA	398.54		0.0	*
3Q15		7/6/2015	NE	43.39	NA	NA	NA	399.26		0.0	*
4Q15		10/1/2015	NE	40.92	NA	NA	NA	401.73		0.1	*
1Q16		1/4/2016	NE	41.31	NA	NA	NA	401.34		0.0	*
2Q16		4/4/2016	NE	40.24	NA	NA	NA	402.41		0.0	*
3Q16		7/5/2016	NE	39.32	NA	NA	NA	403.33		0.8	*
4Q16		10/3/2016	NE	38.74	NA	NA	NA	403.91		0.6	*
MW-02											
1Q14	443.77	2/10/2014	NE	44.00	NA	NA	NA	399.77	393.90 - 383.90 (49.87 - 59.87)	98.7	*
2Q14		4/1/2014	NE	44.45	NA	NA	NA	399.32		50.0	*
3Q14		7/1/2014	NE	43.45	NA	NA	NA	400.32		119.0	*
4Q14		10/1/2014	NE	42.37	NA	NA	NA	401.40		130.1	*
1Q15		1/6/2015	NE	44.05	NA	NA	NA	399.72		91.1	*
2Q15		4/2/2015	NE	45.45	NA	NA	NA	398.32		147.3	*
3Q15		7/6/2015	NE	44.85	NA	NA	NA	398.92		124.0	*
4Q15		10/1/2015	NE	42.31	NA	NA	NA	401.46		12.3	*
1Q16		1/4/2016	NE	42.62	NA	NA	NA	401.15		160.7	*
2Q16		4/4/2016	NE	41.55	NA	NA	NA	402.22		199.1	*
3Q16		7/5/2016	NE	40.64	NA	NA	NA	403.13		123.0	*
4Q16		10/3/2016	NE	40.11	NA	NA	NA	403.66		177.0	*
MW-03											
1Q14	430.08	2/10/2014	NE	29.91	NA	NA	NA	400.17	395.41 - 385.41 (34.67 - 44.67)	2.5	*
2Q14		4/1/2014	NE	30.30	NA	NA	NA	399.78		0.3	*
3Q14		7/1/2014	NE	29.26	NA	NA	NA	400.82		1.2	*
4Q14		10/1/2014	NE	28.14	NA	NA	NA	401.94		0.0	*
1Q15		1/6/2015	NE	29.57	NA	NA	NA	400.51		3.6	*
2Q15		4/2/2015	NE	31.16	NA	NA	NA	398.92		0.2	*
3Q15		7/6/2015	NE	30.15	NA	NA	NA	399.93		0.0	*
4Q15		10/1/2015	NE	27.88	NA	NA	NA	402.20		0.2	*
1Q16		1/5/2016	NE	28.13	NA	NA	NA	401.95		0.2	*
2Q16		4/4/2016	NE	27.31	NA	NA	NA	402.77		0.0	*
3Q16		7/5/2016	NE	26.46	NA	NA	NA	403.62		0.0	*
4Q16		10/3/2016	NE	25.71	NA	NA	NA	404.37		0.3	*
MW-04											
1Q14	441.14	2/10/2014	NE	41.09	NA	NA	NA	400.05	396.08 - 386.08 (45.06 - 55.06)	52.3	*
2Q14		4/1/2014	NE	41.52	NA	NA	NA	399.62		75.0	*
3Q14		7/1/2014	NE	40.50	NA	NA	NA	400.64		97.2	*
4Q14		10/1/2014	NE	39.44	NA	NA	NA	401.70		27.4	*
1Q15		1/6/2015	NE	41.01	NA	NA	NA	400.13		69.0	*
2Q15		4/2/2015	NE	42.58	NA	NA	NA	398.56		12.5	*
3Q15		7/6/2015	NE	41.25	NA	NA	NA	399.89		56.1	*
4Q15		10/1/2015	NE	39.28	NA	NA	NA	401.86		11.5	*
1Q16		1/5/2016	NE	39.53	NA	NA	NA	401.61		67.3	*
2Q16		4/4/2016	NE	38.61	NA	NA	NA	402.53		0.0	*
3Q16		7/5/2016	NE	37.87	NA	NA	NA	403.27		48.1	*
4Q16		10/3/2016	NE	37.13	NA	NA	NA	404.01		48.6	*
MW-05											
1Q14	429.80	2/10/2014	NE	29.59	NA	NA	NA	400.21	395.83 - 385.83 (33.97 - 43.97)	1.4	*
2Q14		4/1/2014	NE	29.96	NA	NA	NA	399.84		0.0	*
3Q14		7/2/2014	NE	28.93	NA	NA	NA	400.87		0.3	*
4Q14		10/2/2014	NE	27.74	NA	NA	NA	402.06		0.0	*
1Q15		1/6/2015	NE	29.34	NA	NA	NA	400.46		0.5	*
2Q15		4/2/2015	NE	30.91	NA	NA	NA	398.89		0.0	*
3Q15		7/6/2015	NE	28.88	NA	NA	NA	400.92		0.3	*
4Q15		10/1/2015	NE	27.61	NA	NA	NA	402.19		0.4	*
1Q16		1/4/2016	NE	27.89	NA	NA	NA	401.91		0.5	*
2Q16		4/4/2016	NE	27.02	NA	NA	NA	402.78		0.0	*
3Q16		7/5/2016	NE	26.25	NA	NA	NA	403.55		3.3	*
4Q16		10/3/2016	NE	25.41	NA	NA	NA	404.39		0.4	*
MW-06A											
1Q14	432.14	2/10/2014	NE	31.62	NA	NA	NA	400.52	397.31 - 387.31 (34.83 - 44.83)	2.3	*
2Q14		4/1/2014	NE	32.03	NA	NA	NA	400.11		10.4	*
3Q14		7/1/2014	NE	30.90	NA	NA	NA	401.24		1.4	*
4Q14		10/2/2014	NE	29.74	NA	NA	NA	402.40		0.0	*
1Q15		1/6/2015	NE	31.48	NA	NA	NA	400.66		0.3	*
2Q15		4/2/2015	NE	33.05	NA	NA	NA	399.09		0.0	*
3Q15		7/6/2015	NE	31.98	NA	NA	NA	400.16		0.1	*
4Q15		10/1/2015	NE	29.72	NA	NA	NA	402.42		0.1	*
1Q16		1/4/2016	NE	29.94	NA	NA	NA	402.20		0.0	*
2Q16		4/4/2016	NE	29.17	NA	NA	NA	402.97		0.0	*
3Q16		7/7/2016	NE	28.40	NA	NA	NA	403.74		0.0	*
4Q16		10/3/2016	NE	27.51	NA	NA	NA	404.63		0.7	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-06B											
1Q14	432.29	2/10/2014	NE	31.67	NA	NA	NA	400.62	368.24 - 363.24 (64.05 - 69.05)	6.0	*
2Q14		4/1/2014	NE	32.10	NA	NA	NA	400.19		4.8	*
3Q14		7/1/2014	NE	30.93	NA	NA	NA	401.36		2.1	*
4Q14		10/2/2014	NE	29.78	NA	NA	NA	402.51		0.0	*
1Q15		1/6/2015	NE	31.52	NA	NA	NA	400.77		5.6	*
2Q15		4/2/2015	NE	33.10	NA	NA	NA	399.19		29.1	*
3Q15		7/6/2015	NE	32.01	NA	NA	NA	400.28		0.2	*
4Q15		10/1/2015	NE	29.76	NA	NA	NA	402.53		0.4	*
1Q16		1/4/2016	NE	29.96	NA	NA	NA	402.33		0.0	*
2Q16		4/4/2016	NE	29.39	NA	NA	NA	402.90		82.8	*
3Q16		7/7/2016	NE	28.42	NA	NA	NA	403.87		0.0	*
4Q16		10/3/2016	NE	27.52	NA	NA	NA	404.77		0.6	*
MW-06C											
1Q14	432.11	2/10/2014	NE	31.48	NA	NA	NA	400.63	347.16 - 342.16 (84.95 - 89.95)	3.8	*
2Q14		4/1/2014	NE	31.89	NA	NA	NA	400.22		2.5	*
3Q14		7/1/2014	NE	30.74	NA	NA	NA	401.37		2.1	*
4Q14		10/2/2014	NE	29.58	NA	NA	NA	402.53		0.0	*
1Q15		1/6/2015	NE	31.31	NA	NA	NA	400.80		42.0	*
2Q15		4/2/2015	NE	32.89	NA	NA	NA	399.22		0.0	*
3Q15		7/6/2015	NE	31.79	NA	NA	NA	400.32		0.0	*
4Q15		10/1/2015	NE	29.55	NA	NA	NA	402.56		2.3	*
1Q16		1/4/2016	NE	29.75	NA	NA	NA	402.36		0.3	*
2Q16		4/4/2016	NE	28.99	NA	NA	NA	403.12		24.9	*
3Q16		7/7/2016	NE	28.24	NA	NA	NA	403.87		0.0	*
4Q16		10/3/2016	NE	27.33	NA	NA	NA	404.78		0.6	*
MW-06D											
1Q14	431.99	2/10/2014	NE	31.33	NA	NA	NA	400.66	327.27 - 322.27 (104.72 - 109.72)	1.3	*
2Q14		4/1/2014	NE	31.73	NA	NA	NA	400.26		1.6	*
3Q14		7/1/2014	NE	30.58	NA	NA	NA	401.41		13.3	*
4Q14		10/2/2014	NE	29.43	NA	NA	NA	402.56		0.0	*
1Q15		1/6/2015	NE	31.16	NA	NA	NA	400.83		5.9	*
2Q15		4/2/2015	NE	32.74	NA	NA	NA	399.25		43.0	*
3Q15		7/6/2015	NE	31.83	NA	NA	NA	400.16		0.1	*
4Q15		10/1/2015	NE	29.40	NA	NA	NA	402.59		0.7	*
1Q16		1/4/2016	NE	29.59	NA	NA	NA	402.40		0.2	*
2Q16		4/4/2016	NE	28.84	NA	NA	NA	403.15		22.4	*
3Q16		7/7/2016	NE	28.09	NA	NA	NA	403.90		0.0	*
4Q16		10/3/2016	NE	27.16	NA	NA	NA	404.83		0.5	*
MW-07											
1Q14	443.10	2/10/2014	NE	42.94	NA	NA	NA	400.16	400.18 - 390.18 (42.92 - 52.92)	720.3	
2Q14		4/3/2014	NE	43.41	NA	NA	NA	399.69		6.2	
3Q14		7/1/2014	NE	42.39	NA	NA	NA	400.71		170.1	*
4Q14		10/1/2014	NE	41.32	NA	NA	NA	401.78		4259.0	*
1Q15		1/6/2015	NE	43.18	NA	NA	NA	399.92		9.7	
2Q15		4/2/2015	NE	44.68	NA	NA	NA	398.42		0.0	
3Q15		7/6/2015	NE	43.90	NA	NA	NA	399.20		0.0	
4Q15		10/1/2015	NE	41.35	NA	NA	NA	401.75		384.0	*
1Q16		1/4/2016	NE	41.62	NA	NA	NA	401.48		6007.0	*
2Q16		4/4/2016	NE	40.71	NA	NA	NA	402.39		4292.0	*
3Q16		7/5/2016	NE	40.10	NA	NA	NA	403.00		885.6	*
4Q16		10/3/2016	NE	39.21	NA	NA	NA	403.89		3222.0	*
MW-08											
1Q14	434.11	2/10/2014	NE	34.02	NA	NA	NA	400.09	400.51 - 390.51 (33.60 - 43.60)	7.2	
2Q14		4/3/2014	NE	34.36	NA	NA	NA	399.75		2.8	
3Q14		7/2/2014	NE	33.35	NA	NA	NA	400.76		13.2	*
4Q14		10/2/2014	NE	32.19	NA	NA	NA	401.92		102.7	*
1Q15		1/6/2015	NE	33.91	NA	NA	NA	400.20		101.0	
2Q15		4/2/2015	NE	35.46	NA	NA	NA	398.65		0.0	
3Q15		7/7/2015	NE	34.51	NA	NA	NA	399.60		0.0	
4Q15		10/1/2015	NE	32.15	NA	NA	NA	401.96		663.0	*
1Q16		1/4/2016	NE	32.41	NA	NA	NA	401.70		13.0	*
2Q16		4/4/2016	NE	31.56	NA	NA	NA	402.55		247.6	*
3Q16		7/5/2016	NE	30.89	NA	NA	NA	403.22		296.0	*
4Q16		10/4/2016	NE	30.01	NA	NA	NA	404.10		6793.0	*
MW-09											
1Q14	445.20	2/10/2014	NE	44.47	NA	NA	NA	400.73	398.75 - 388.75 (46.45 - 56.45)	0.6	*
2Q14		4/1/2014	NE	44.95	NA	NA	NA	400.25		1.7	*
3Q14		7/1/2014	NE	44.49	NA	NA	NA	400.71		0.0	*
4Q14		10/1/2014	NE	43.54	NA	NA	NA	401.66		0.3	*
1Q15		1/5/2015	NE	44.16	NA	NA	NA	401.04		12.8	*
2Q15		4/2/2015	NE	45.45	NA	NA	NA	399.75		0.0	*
3Q15		7/6/2015	NE	44.83	NA	NA	NA	400.37		0.0	*
4Q15		10/1/2015	NE	42.75	NA	NA	NA	402.45		0.6	*
1Q16		1/4/2016	NE	43.03	NA	NA	NA	402.17		0.0	*
2Q16		4/4/2016	NE	41.87	NA	NA	NA	403.33		0.0	*
3Q16		7/6/2016	NE	40.96	NA	NA	NA	404.24		0.0	*
4Q16		10/3/2016	NE	40.44	NA	NA	NA	404.76		0.2	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-10											
1Q14	445.03	2/10/2014	NE	44.42	NA	NA	NA	400.61	400.60 - 390.60 (44.43 - 54.43)	0.4	*
2Q14		4/1/2014	NE	44.99	NA	NA	NA	400.04		177.6	
3Q14		7/1/2014	NE	44.55	NA	NA	NA	400.48		0.0	
4Q14		10/1/2014	NE	43.65	NA	NA	NA	401.38		0.2	*
1Q15		1/5/2015	NE	44.19	NA	NA	NA	400.84		0.0	*
2Q15		4/2/2015	NE	45.38	NA	NA	NA	399.65		0.0	
3Q15		7/6/2015	NE	44.92	NA	NA	NA	400.11		169.6	
4Q15		10/1/2015	NE	42.85	NA	NA	NA	402.18		0.6	*
1Q16		1/4/2016	NE	43.07	NA	NA	NA	401.96		0.0	*
2Q16		4/4/2016	NE	41.98	NA	NA	NA	403.05		0.0	*
3Q16		7/5/2016	NE	41.00	NA	NA	NA	404.03		0.0	*
4Q16		10/3/2016	NE	40.42	NA	NA	NA	404.61		0.2	*
MW-11											
1Q14	442.33	2/10/2014	NE	42.16	NA	NA	NA	400.17	400.67 - 390.67 (41.66 - 51.66)	0.3	
2Q14		4/1/2014	NE	42.55	NA	NA	NA	399.78		0.0	
3Q14		7/1/2014	NE	41.92	NA	NA	NA	400.41		0.0	
4Q14		10/1/2014	NE	39.93	NA	NA	NA	402.40		0.0	*
1Q15		1/5/2015	NE	41.72	NA	NA	NA	400.61		2.0	
2Q15		4/2/2015	NE	43.16	NA	NA	NA	399.17		0.0	
3Q15		7/6/2015	NE	42.52	NA	NA	NA	399.81		0.0	
4Q15		10/1/2015	NE	40.26	NA	NA	NA	402.07		0.2	*
1Q16		1/4/2016	NE	40.69	NA	NA	NA	401.64		0.0	*
2Q16		4/4/2016	NE	39.53	NA	NA	NA	402.80		0.0	*
3Q16		7/6/2016	NE	38.39	NA	NA	NA	403.94		0.0	*
4Q16		10/3/2016	NE	37.99	NA	NA	NA	404.34		0.5	*
MW-12											
1Q14	442.60	2/10/2014	NE	42.54	NA	NA	NA	400.06	400.68 - 390.68 (41.92 - 51.92)	1.5	
2Q14		4/2/2014	NE	42.97	NA	NA	NA	399.63		0.7	
3Q14		7/1/2014	NE	42.10	NA	NA	NA	400.50		1.1	
4Q14		10/1/2014	NE	41.02	NA	NA	NA	401.58		0.0	*
1Q15		1/5/2015	NE	42.13	NA	NA	NA	400.47		33.2	
2Q15		4/2/2015	NE	43.71	NA	NA	NA	398.89		0.2	
3Q15		7/6/2015	NE	42.92	NA	NA	NA	399.68		0.0	
4Q15		10/1/2015	NE	40.60	NA	NA	NA	402.00		0.1	*
1Q16		1/5/2016	NE	40.98	NA	NA	NA	401.62		0.2	*
2Q16		4/4/2016	NE	39.88	NA	NA	NA	402.72		0.0	*
3Q16		7/6/2016	NE	38.87	NA	NA	NA	403.73		0.0	*
4Q16		10/3/2016	NE	38.43	NA	NA	NA	404.17		0.5	*
MW-13											
1Q14	430.27	2/11/2014	NE	29.63	NA	NA	NA	400.64	404.70 - 394.70 (25.57 - 35.57)	10.1	
2Q14		4/4/2014	NE	30.11	NA	NA	NA	400.16		0.2	
3Q14		7/2/2014	NE	28.72	NA	NA	NA	401.55		1.1	
4Q14		10/3/2014	NE	27.66	NA	NA	NA	402.61		0.4	
1Q15		1/12/2015	NE	29.23	NA	NA	NA	401.04		0.0	
2Q15		4/3/2015	NE	30.83	NA	NA	NA	399.44		1.7	
3Q15		7/8/2015	NE	29.16	NA	NA	NA	401.11		254.3	
4Q15		10/2/2015	NE	27.36	NA	NA	NA	402.91		90.2	
1Q16		1/5/2016	NE	27.33	NA	NA	NA	402.94		143.8	
2Q16		4/5/2016	NE	26.75	NA	NA	NA	403.52		71.4	
3Q16		7/8/2016	NE	26.16	NA	NA	NA	404.11		3.2	
4Q16		10/4/2016	NE	24.99	NA	NA	NA	405.28		86.6	*
MW-14											
1Q14	434.44	2/11/2014	NE	33.67	NA	NA	NA	400.77	401.02 - 391.02 (33.42 - 43.42)	45.1	
2Q14		4/4/2014	NE	34.21	NA	NA	NA	400.23		50.2	
3Q14		7/2/2014	NE	33.03	NA	NA	NA	401.41		52.0	*
4Q14		10/3/2014	NE	31.93	NA	NA	NA	402.51		83.3	*
1Q15		1/9/2015	NE	33.64	NA	NA	NA	400.80		41.8	
2Q15		4/3/2015	NE	35.20	NA	NA	NA	399.24		78.2	
3Q15		7/7/2015	NE	34.11	NA	NA	NA	400.33		207.7	
4Q15		10/2/2015	NE	31.88	NA	NA	NA	402.56		42.4	*
1Q16		1/6/2016	NE	31.75	NA	NA	NA	402.69		35.2	*
2Q16		4/5/2016	NE	31.35	NA	NA	NA	403.09		64.1	*
3Q16		7/8/2016	NE	30.72	NA	NA	NA	403.72		48.3	*
4Q16		10/4/2016	NE	29.60	NA	NA	NA	404.84		54.2	*
MW-16											
1Q14	443.39	2/10/2014	NE	43.76	NA	NA	NA	399.63	406.33 - 396.33 (37.06 - 47.06)	0.5	
2Q14		4/1/2014	NE	44.19	NA	NA	NA	399.20		0.6	
3Q14		7/1/2014	NE	43.45	NA	NA	NA	399.94		0.0	
4Q14		10/1/2014	NE	42.35	NA	NA	NA	401.04		0.0	
1Q15		1/5/2015	NE	43.45	NA	NA	NA	399.94		0.0	
2Q15		4/2/2015	NE	44.93	NA	NA	NA	398.46		0.0	
3Q15		7/6/2015	NE	44.31	NA	NA	NA	399.08		0.0	
4Q15		10/1/2015	NE	41.89	NA	NA	NA	401.50		0.1	
1Q16		1/5/2016	NE	42.32	NA	NA	NA	401.07		0.0	
2Q16		4/4/2016	NE	41.19	NA	NA	NA	402.20		0.0	
3Q16		7/6/2016	NE	39.94	NA	NA	NA	403.45		0.0	
4Q16		10/4/2016	NE	39.72	NA	NA	NA	403.67		0.0	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-17											
1Q14	441.57	2/10/2014	NE	42.25	NA	NA	NA	399.32	407.28 - 392.28 (34.29 - 49.29)	0.0	
2Q14		4/3/2014	NE	42.76	NA	NA	NA	398.81		2.1	
3Q14		7/1/2014	NE	41.92	NA	NA	NA	399.65		0.0	
4Q14		10/1/2014	NE	41.07	NA	NA	NA	400.50		0.0	
1Q15		1/5/2015	NE	41.86	NA	NA	NA	399.71		1.9	
2Q15		4/2/2015	NE	43.20	NA	NA	NA	398.37		0.0	
3Q15		7/6/2015	NE	42.73	NA	NA	NA	398.84		0.0	
4Q15		10/1/2015	NE	40.33	NA	NA	NA	401.24		0.1	
1Q16		1/4/2016	NE	41.00	NA	NA	NA	400.57		0.1	
2Q16		4/4/2016	NE	39.67	NA	NA	NA	401.90		0.0	
3Q16		7/5/2016	NE	38.12	NA	NA	NA	403.45		0.0	
4Q16		10/3/2016	NE	38.22	NA	NA	NA	403.35		0.4	
MW-18											
1Q14	442.04	2/11/2014	NE	42.85	NA	NA	NA	399.19	407.12 - 392.12 (34.92 - 49.92)	0.0	
2Q14		4/1/2014	NE	43.41	NA	NA	NA	398.63		0.0	
3Q14		7/1/2014	NE	42.49	NA	NA	NA	399.55		0.9	
4Q14		10/1/2014	NE	41.67	NA	NA	NA	400.37		0.0	
1Q15		1/5/2015	NE	42.55	NA	NA	NA	399.49		0.3	
2Q15		4/2/2015	NE	44.53	NA	NA	NA	397.51		0.0	
3Q15		7/6/2015	NE	43.44	NA	NA	NA	398.60		0.0	
4Q15		10/1/2015	NE	40.97	NA	NA	NA	401.07		0.1	
1Q16		1/4/2016	NE	41.75	NA	NA	NA	400.29		0.0	
2Q16		4/4/2016	NE	40.45	NA	NA	NA	401.59		0.0	
3Q16		7/5/2016	NE	38.65	NA	NA	NA	403.39		0.0	
4Q16		10/3/2016	NE	38.91	NA	NA	NA	403.13		9.0	
MW-19											
1Q14	442.77	2/10/2014	NE	43.41	NA	NA	NA	399.36	406.43 - 391.43 (36.34 - 51.34)	0.9	
2Q14		4/1/2014	NE	43.92	NA	NA	NA	398.85		0.0	
3Q14		7/1/2014	NE	42.92	NA	NA	NA	399.85		0.6	
4Q14		10/1/2014	NE	42.02	NA	NA	NA	400.75		0.0	
1Q15		1/5/2015	NE	43.13	NA	NA	NA	399.64		0.0	
2Q15		4/2/2015	NE	43.94	NA	NA	NA	398.83		0.0	
3Q15		7/6/2015	NE	43.99	NA	NA	NA	398.78		0.0	
4Q15		10/1/2015	NE	41.48	NA	NA	NA	401.29		0.2	
1Q16		1/4/2016	NE	42.14	NA	NA	NA	400.63		0.4	
2Q16		4/4/2016	NE	40.43	NA	NA	NA	402.34		0.0	
3Q16		7/5/2016	NE	39.42	NA	NA	NA	403.35		0.0	
4Q16		10/3/2016	NE	39.44	NA	NA	NA	403.33		0.5	
MW-20											
1Q14	443.67	2/10/2014	NE	44.09	NA	NA	NA	399.58	407.79 - 392.79 (35.88 - 50.88)	1.4	
2Q14		4/2/2014	NE	44.65	NA	NA	NA	399.02		0.0	
3Q14		7/1/2014	NE	43.64	NA	NA	NA	400.03		1.3	
4Q14		10/1/2014	NE	42.63	NA	NA	NA	401.04		0.0	
1Q15		1/5/2015	NE	43.93	NA	NA	NA	399.74		0.0	
2Q15		4/2/2015	NE	45.39	NA	NA	NA	398.28		0.0	
3Q15		7/6/2015	NE	44.83	NA	NA	NA	398.84		0.0	
4Q15		10/1/2015	NE	42.33	NA	NA	NA	401.34		0.2	
1Q16		1/4/2016	NE	42.76	NA	NA	NA	400.91		0.5	
2Q16		4/4/2016	NE	41.64	NA	NA	NA	402.03		0.0	
3Q16		7/5/2016	NE	40.46	NA	NA	NA	403.21		0.0	
4Q16		10/3/2016	NE	40.19	NA	NA	NA	403.48		0.4	
MW-21											
1Q14	443.81	2/10/2014	NE	43.91	NA	NA	NA	399.90	408.80 - 393.80 (35.01 - 50.01)	32.5	
2Q14		4/3/2014	NE	44.38	NA	NA	NA	399.43		1.8	
3Q14		7/2/2014	NE	43.38	NA	NA	NA	400.43		0.0	
4Q14		10/1/2014	NE	42.28	NA	NA	NA	401.53		0.0	
1Q15		1/6/2015	NE	44.15	NA	NA	NA	399.66		13.8	
2Q15		4/2/2015	NE	45.58	NA	NA	NA	398.23		0.0	
3Q15		7/6/2015	NE	44.96	NA	NA	NA	398.85		0.0	
4Q15		10/1/2015	NE	42.33	NA	NA	NA	401.48		0.1	
1Q16		1/4/2016	NE	42.53	NA	NA	NA	401.28		0.2	
2Q16		4/4/2016	NE	41.61	NA	NA	NA	402.20		0.0	
3Q16		7/5/2016	NE	40.89	NA	NA	NA	402.92		0.0	
4Q16		10/3/2016	NE	40.55	NA	NA	NA	403.26		0.3	
MW-22											
1Q14	442.16	2/10/2014	NE	42.49	NA	NA	NA	399.67	404.28 - 394.28 (37.88 - 47.88)	0.3	
2Q14		4/3/2014	NE	42.90	NA	NA	NA	399.26		0.2	
3Q14		7/1/2014	NE	42.18	NA	NA	NA	399.98		0.1	
4Q14		10/1/2014	NE	41.20	NA	NA	NA	400.96		0.0	
1Q15		1/6/2015	NE	42.13	NA	NA	NA	400.03		0.0	
2Q15		4/2/2015	NE	43.53	NA	NA	NA	398.63		0.2	
3Q15		7/6/2015	NE	42.94	NA	NA	NA	399.22		0.0	
4Q15		10/1/2015	NE	40.56	NA	NA	NA	401.60		0.1	
1Q16		1/4/2016	NE	41.12	NA	NA	NA	401.04		0.0	
2Q16		4/4/2016	NE	39.88	NA	NA	NA	402.28		0.0	
3Q16		7/6/2016	NE	38.56	NA	NA	NA	403.60		0.0	
4Q16		10/3/2016	NE	38.44	NA	NA	NA	403.72		1.2	

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WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-23											
2Q15	431.41	4/2/2015	NE	32.21	NA	NA	NA	399.20	402.39 - 392.39 (29.02 - 39.02)	0.0	Installed during 1Q15
3Q15		7/7/2015	NE	30.74	NA	NA	NA	400.67		8.3	
4Q15		10/1/2015	NE	28.80	NA	NA	NA	402.61		0.5	*
1Q16		1/5/2016	NE	29.05	NA	NA	NA	402.36		0.1	
2Q16		4/4/2016	NE	28.30	NA	NA	NA	403.11		0.0	*
3Q16		7/7/2016	NE	27.21	NA	NA	NA	404.20		0.7	*
4Q16		10/3/2016	NE	26.53	NA	NA	NA	404.88		1.0	*
MW-24											
1Q14	443.42	2/10/2014	NE	43.47	NA	NA	NA	399.95	404.53 - 394.53 (38.89 - 48.89)	14.2	
2Q14		4/1/2014	NE	43.86	NA	NA	NA	399.56		4.9	
3Q14		7/1/2014	NE	43.15	NA	NA	NA	400.27		0.0	
4Q14		10/1/2014	NE	42.13	NA	NA	NA	401.29		13.8	
1Q15		1/5/2015	NE	43.00	NA	NA	NA	400.42		120.0	
2Q15		4/2/2015	NE	44.50	NA	NA	NA	398.92		0.3	
3Q15		7/6/2015	NE	43.76	NA	NA	NA	399.66		1.2	
4Q15		10/1/2015	NE	41.52	NA	NA	NA	401.90		0.1	
1Q16		1/4/2016	NE	41.94	NA	NA	NA	401.48		0.0	
2Q16		4/4/2016	NE	40.74	NA	NA	NA	402.68		0.0	
3Q16		7/6/2016	NE	39.68	NA	NA	NA	403.74		0.0	
4Q16		10/3/2016	NE	39.28	NA	NA	NA	404.14		117.0	
MW-25											
4Q14	438.35	10/1/2014	NE	36.50	NA	NA	NA	401.85	402.76 - 392.76 (35.59 - 45.59)	0.0	Installed during 3Q14
1Q15		1/6/2015	NE	38.16	NA	NA	NA	400.19		1.3	
2Q15		4/2/2015	NE	39.69	NA	NA	NA	398.66		1.2	
3Q15		7/6/2015	NE	38.84	NA	NA	NA	399.51		0.1	
4Q15		10/1/2015	NE	36.39	NA	NA	NA	401.96		0.5	
1Q16		1/4/2016	NE	36.68	NA	NA	NA	401.67		132.0	
2Q16		4/4/2016	NE	35.78	NA	NA	NA	402.57		0.0	
3Q16		7/6/2016	NE	35.02	NA	NA	NA	403.33		32.5	*
4Q16		10/3/2016	NE	34.23	NA	NA	NA	404.12		52.0	*
MW-26											
4Q14	441.02	10/2/2014	NE	39.41	NA	NA	NA	401.61	402.87 - 392.87 (38.15 - 48.15)	8.2	Installed during 3Q14
1Q15		1/6/2015	NE	40.99	NA	NA	NA	400.03		NM	
2Q15		4/2/2015	NE	42.48	NA	NA	NA	398.54		22.9	
3Q15		7/6/2015	NE	41.77	NA	NA	NA	399.25		0.8	
4Q15		10/1/2015	NE	39.25	NA	NA	NA	401.77		0.6	
1Q16		1/5/2016	NE	39.55	NA	NA	NA	401.47		0.7	
2Q16		4/4/2016	NE	38.56	NA	NA	NA	402.46		0.0	
3Q16		7/5/2016	NE	37.76	NA	NA	NA	403.26		0.4	*
4Q16		10/3/2016	NE	37.10	NA	NA	NA	403.92		0.2	*
MW-27											
1Q15	443.40	1/5/2015	NE	41.95	NA	NA	NA	401.45	403.61 - 393.61 (39.79 - 49.79)	NM	Installed during 4Q14
2Q15		4/2/2015	NE	43.28	NA	NA	NA	400.12		10.9	
3Q15		7/6/2015	NE	43.07	NA	NA	NA	400.33		0.0	
4Q15		10/1/2015	NE	40.50	NA	NA	NA	402.90		0.6	
1Q16		1/4/2016	NE	41.02	NA	NA	NA	402.38		0.0	
2Q16		4/4/2016	NE	39.67	NA	NA	NA	403.73		0.0	*
3Q16		7/6/2016	NE	38.95	NA	NA	NA	404.45		9.2	*
4Q16		10/3/2016	NE	38.60	NA	NA	NA	404.80		0.4	*
MW-28											
4Q14	443.34	10/1/2014	NE	41.10	NA	NA	NA	402.24	409.73 - 399.73 (33.61 - 43.61)	0.0	Installed during 3Q14
1Q15		1/5/2015	NE	41.05	NA	NA	NA	402.29		NM	
2Q15		4/2/2015	NE	42.12	NA	NA	NA	401.22		0.0	
3Q15		7/7/2015	NE	42.39	NA	NA	NA	400.95		0.0	
4Q15		10/1/2015	NE	40.23	NA	NA	NA	403.11		0.6	
1Q16		1/4/2016	NE	40.34	NA	NA	NA	403.00		0.0	
2Q16		4/4/2016	NE	39.18	NA	NA	NA	404.16		0.0	
3Q16		7/6/2016	NE	38.42	NA	NA	NA	404.92		0.0	
4Q16		10/3/2016	NE	37.81	NA	NA	NA	405.53		0.5	
P-01											
1Q14	442.56	2/12/2014	NE	35.21	NA	NA	NA	407.35	380.61 - 375.61 (61.95 - 66.95)	0.1	*
2Q14		4/2/2014	NE	35.61	NA	NA	NA	406.95		0.0	*
3Q14		7/3/2014	NE	34.33	NA	NA	NA	408.23		0.2	*
4Q14		10/1/2014	NE	33.96	NA	NA	NA	408.60		0.0	*
1Q15	442.73	1/5/2015	NM	NM	NA	NA	NA	NA	380.78 - 375.78 (61.95 - 66.95)	NM	Unsafe condition at well - Unable to access
2Q15		4/6/2015	NE	34.46	NA	NA	NA	408.27		0.2	*
3Q15		7/6/2015	NE	31.98	NA	NA	NA	410.75		0.1	*
4Q15		10/1/2015	NE	32.22	NA	NA	NA	410.51		0.0	*
1Q16		1/5/2016	NE	31.14	NA	NA	NA	411.59		0.0	*
2Q16		4/4/2016	NE	30.93	NA	NA	NA	411.80		0.0	*
3Q16		7/7/2016	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q16		10/5/2016	NE	27.94	NA	NA	NA	414.79		0.2	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-4U											
1Q14	442.50	2/12/2014	NE	36.76	NA	NA	NA	405.74	361.35 - 359.35 (81.15 - 83.15)	51.0	*
2Q14		4/4/2014	NE	39.91	NA	NA	NA	402.59		0.2	*
3Q14		7/3/2014	NE	36.64	NA	NA	NA	405.86		0.0	*
4Q14		10/1/2014	NE	36.22	NA	NA	NA	406.28		0.0	*
1Q15	442.54	1/5/2015	NE	36.01	NA	NA	NA	406.53	361.39 - 359.39 (81.15 - 83.15)	0.0	*
2Q15		4/6/2015	NE	35.88	NA	NA	NA	406.66		0.4	*
3Q15		7/6/2015	NE	34.58	NA	NA	NA	407.96		0.2	*
4Q15		10/1/2015	NE	33.65	NA	NA	NA	408.89		0.0	*
1Q16		1/4/2016	NE	33.33	NA	NA	NA	409.21		0.0	*
2Q16		4/6/2016	NM	NM	NA	NA	NA	NA		NM	
3Q16		7/5/2016	NE	32.12	NA	NA	NA	410.42		0.1	*
4Q16		10/5/2016	NE	29.49	NA	NA	NA	413.05		NM	*
P-5L											
1Q14	443.79	2/12/2014	NE	36.88	NA	NA	NA	406.91	303.39 - 301.39 (140.40 - 142.40)	0.2	*
2Q14		4/4/2014	NE	41.40	NA	NA	NA	402.39		2.0	*
3Q14		7/3/2014	NE	36.65	NA	NA	NA	407.14		0.0	*
4Q14		10/1/2014	NE	36.38	NA	NA	NA	407.41		0.0	*
1Q15	443.84	1/5/2015	NE	36.83	NA	NA	NA	407.01	303.44 - 301.44 (140.40 - 142.40)	0.0	*
2Q15		4/6/2015	NE	36.21	NA	NA	NA	407.63		0.1	*
3Q15		7/7/2015	NE	34.32	NA	NA	NA	409.52		0.0	*
4Q15		10/1/2015	NE	33.87	NA	NA	NA	409.97		0.0	*
1Q16		1/4/2016	NE	32.95	NA	NA	NA	410.89		0.2	*
2Q16		4/4/2016	NE	32.34	NA	NA	NA	411.50		0.0	*
3Q16		7/5/2016	NE	33.37	NA	NA	NA	410.47		0.8	*
4Q16		10/5/2016	NE	28.83	NA	NA	NA	415.01		0.0	*
P-5U											
1Q14	444.15	2/12/2014	NE	38.00	NA	NA	NA	406.15	313.52 - 311.52 (130.63 - 132.63)	0.5	*
2Q14		4/4/2014	NE	50.04	NA	NA	NA	394.11		0.2	*
3Q14		7/3/2014	NE	37.95	NA	NA	NA	406.20		0.0	*
4Q14		10/1/2014	NE	37.56	NA	NA	NA	406.59		0.0	*
1Q15	444.24	1/5/2015	NE	46.14	NA	NA	NA	398.10	313.61 - 311.61 (130.63 - 132.63)	0.1	*
2Q15		4/6/2015	NE	37.23	NA	NA	NA	407.01		0.1	*
3Q15		7/7/2015	NE	35.71	NA	NA	NA	408.53		0.0	*
4Q15		10/1/2015	NE	35.03	NA	NA	NA	409.21		0.0	*
1Q16		1/4/2016	NE	34.53	NA	NA	NA	409.71		0.0	*
2Q16		4/4/2016	NE	33.78	NA	NA	NA	410.46		0.0	*
3Q16		7/5/2016	NE	32.08	NA	NA	NA	412.16		0.8	*
4Q16		10/5/2016	NE	30.46	NA	NA	NA	413.78		0.1	*
P-6U											
1Q14	443.35	2/12/2014	NE	37.45	NA	NA	NA	405.90	362.85 - 360.85 (80.50 - 82.50)	0.7	*
2Q14		4/4/2014	NE	42.10	NA	NA	NA	401.25		1.5	*
3Q14		7/3/2014	NE	37.52	NA	NA	NA	405.83		0.1	*
4Q14		10/1/2014	NE	37.17	NA	NA	NA	406.18		0.0	*
1Q15	443.45	1/5/2015	NE	37.12	NA	NA	NA	406.33	362.95 - 360.95 (80.50 - 82.50)	0.0	*
2Q15		4/6/2015	NE	36.85	NA	NA	NA	406.60		0.1	*
3Q15		7/7/2015	NE	35.43	NA	NA	NA	408.02		0.0	*
4Q15		10/1/2015	NE	34.54	NA	NA	NA	408.91		0.0	*
1Q16		1/4/2016	NE	34.19	NA	NA	NA	409.26		0.0	*
2Q16		4/4/2016	NE	33.17	NA	NA	NA	410.28		0.0	*
3Q16		7/5/2016	NE	31.58	NA	NA	NA	411.87		0.1	*
4Q16		10/5/2016	NE	29.93	NA	NA	NA	413.52		0.0	*
P-7U											
1Q14	443.80	2/12/2014	NE	37.76	NA	NA	NA	406.04	382.72 - 380.72 (61.08 - 63.08)	2.0	*
2Q14		4/2/2014	NE	43.67	NA	NA	NA	400.13		0.2	*
3Q14		7/3/2014	NE	37.81	NA	NA	NA	405.99		0.3	*
4Q14		10/1/2014	NE	37.52	NA	NA	NA	406.28		0.0	*
1Q15	443.91	1/6/2015	NE	37.49	NA	NA	NA	406.42	382.83 - 380.83 (61.08 - 63.08)	0.0	*
2Q15		4/6/2015	NE	37.22	NA	NA	NA	406.69		0.5	*
3Q15		7/6/2015	NE	35.66	NA	NA	NA	408.25		0.1	*
4Q15		10/1/2015	NE	34.86	NA	NA	NA	409.05		0.0	*
1Q16		1/4/2016	NE	34.35	NA	NA	NA	409.56		0.0	*
2Q16		4/4/2016	NE	33.38	NA	NA	NA	410.53		0.0	*
3Q16		7/7/2016	NE	32.86	NA	NA	NA	411.05		0.9	*
4Q16		10/5/2016	NE	29.98	NA	NA	NA	413.93		0.0	*
P-8U											
1Q14	441.87	2/12/2014	NE	37.54	NA	NA	NA	404.33	382.35 - 380.35 (59.52 - 61.52)	0.4	*
2Q14		4/1/2014	NE	38.43	NA	NA	NA	403.44		0.0	*
3Q14		7/1/2014	NE	38.00	NA	NA	NA	403.87		0.0	*
4Q14		10/3/2014	NE	37.73	NA	NA	NA	404.14		0.0	*
1Q15	441.85	1/5/2015	NE	37.08	NA	NA	NA	404.77	382.33 - 380.33 (59.52 - 61.52)	0.0	*
2Q15		4/6/2015	NE	37.06	NA	NA	NA	404.79		0.1	*
3Q15		7/6/2015	NE	36.24	NA	NA	NA	405.61		0.1	*
4Q15		10/1/2015	NE	34.97	NA	NA	NA	406.88		0.0	*
1Q16		1/4/2016	NE	34.99	NA	NA	NA	406.86		0.1	*
2Q16		4/5/2016	NE	33.41	NA	NA	NA	408.44		0.4	*
3Q16		7/5/2016	NE	33.18	NA	NA	NA	408.67		0.2	*
4Q16		10/4/2016	NE	30.74	NA	NA	NA	411.11		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-9U											
1Q14	444.91	2/12/2014	NE	41.36	NA	NA	NA	403.55	344.32 - 342.32 (100.59 - 102.59)	0.1	*
2Q14		4/1/2014	NE	42.28	NA	NA	NA	402.63		0.0	*
3Q14		7/2/2014	NE	42.07	NA	NA	NA	402.84		0.0	*
4Q14		10/3/2014	NE	41.81	NA	NA	NA	403.10		0.0	*
1Q15	445.04	1/6/2015	NE	41.41	NA	NA	NA	403.63	344.45 - 342.45 (100.59 - 102.59)	0.0	*
2Q15		4/6/2015	NE	41.60	NA	NA	NA	403.44		0.1	*
3Q15		7/6/2015	NE	40.70	NA	NA	NA	404.34		0.1	*
4Q15		10/1/2015	NE	39.69	NA	NA	NA	405.35		0.0	*
1Q16		1/5/2016	NE	39.77	NA	NA	NA	405.27		0.0	*
2Q16		4/4/2016	NE	37.84	NA	NA	NA	407.20		0.0	*
3Q16		7/5/2016	NE	37.92	NA	NA	NA	407.12		0.2	*
4Q16		10/4/2016	NE	35.83	NA	NA	NA	409.21		0.8	*
P-11L											
1Q14	442.80	2/12/2014	NE	38.37	NA	NA	NA	404.43	332.59 - 330.59 (110.21 - 112.21)	8.9	*
2Q14		4/4/2014	NE	42.89	NA	NA	NA	399.91		7.1	*
3Q14		7/1/2014	NE	38.58	NA	NA	NA	404.22		0.0	*
4Q14		10/2/2014	NE	38.10	NA	NA	NA	404.70		0.0	*
1Q15	442.55	1/6/2015	NE	37.70	NA	NA	NA	404.85	332.34 - 330.34 (110.21 - 112.21)	0.0	*
2Q15		4/6/2015	NE	37.51	NA	NA	NA	405.04		0.2	*
3Q15		7/7/2015	NE	36.88	NA	NA	NA	405.67		0.0	*
4Q15		10/1/2015	NE	35.54	NA	NA	NA	407.01		0.0	*
1Q16		1/4/2016	NE	35.47	NA	NA	NA	407.08		0.0	*
2Q16		4/5/2016	NE	34.70	NA	NA	NA	407.85		0.6	*
3Q16		7/5/2016	NE	34.03	NA	NA	NA	408.52		0.2	*
4Q16		10/5/2016	NE	31.89	NA	NA	NA	410.66		0.2	*
P-11U											
1Q14	443.09	2/12/2014	NE	38.98	NA	NA	NA	404.11	343.17 - 341.17 (99.92 - 101.92)	0.9	*
2Q14		4/4/2014	NE	39.74	NA	NA	NA	403.35		0.2	*
3Q14		7/1/2014	NE	39.18	NA	NA	NA	403.91		0.0	*
4Q14		10/2/2014	NE	38.74	NA	NA	NA	404.35		0.0	*
1Q15	443.17	1/6/2015	NE	37.32	NA	NA	NA	405.85	343.25 - 341.25 (99.92 - 101.92)	0.1	*
2Q15		4/6/2015	NE	38.13	NA	NA	NA	405.04		0.2	*
3Q15		7/7/2015	NE	37.51	NA	NA	NA	405.66		0.1	*
4Q15		10/1/2015	NE	36.14	NA	NA	NA	407.03		0.0	*
1Q16		1/4/2016	NE	36.09	NA	NA	NA	407.08		0.0	*
2Q16		4/5/2016	NE	34.88	NA	NA	NA	408.29		1.9	*
3Q16		7/5/2016	NE	34.66	NA	NA	NA	408.51		0.2	*
4Q16		10/5/2016	NE	32.53	NA	NA	NA	410.64		0.2	*
P-14											
1Q14	442.65	2/12/2014	NE	35.26	NA	NA	NA	407.39	395.32 - 385.32 (47.33 - 57.33)	12.8	*
2Q14		4/2/2014	NE	35.67	NA	NA	NA	406.98		0.0	*
3Q14		7/3/2014	NE	34.40	NA	NA	NA	408.25		25.7	*
4Q14		10/1/2014	NE	34.05	NA	NA	NA	408.60		0.0	*
1Q15	442.74	1/5/2015	NM	NM	NA	NA	NA	NA	395.41 - 385.41 (47.33 - 57.33)	NM	Unsafe condition at well - Unable to access
2Q15		4/6/2015	NE	34.49	NA	NA	NA	408.25		0.7	*
3Q15		7/6/2015	NE	32.06	NA	NA	NA	410.68		0.2	*
4Q15		10/1/2015	NE	32.24	NA	NA	NA	410.50		0.0	*
1Q16		1/5/2016	NE	31.21	NA	NA	NA	411.53		0.0	*
2Q16		4/4/2016	NE	30.98	NA	NA	NA	411.76		0.0	*
3Q16		7/7/2016	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q16		10/5/2016	NE	28.03	NA	NA	NA	414.71		0.0	*
P-15											
1Q14	443.35	2/12/2014	NE	37.08	NA	NA	NA	406.27	397.90 - 387.90 (45.45 - 55.45)	1.5	*
2Q14		4/4/2014	NE	39.02	NA	NA	NA	404.33		0.3	*
3Q14		7/3/2014	NE	37.04	NA	NA	NA	406.31		0.0	*
4Q14		10/1/2014	NE	36.57	NA	NA	NA	406.78		0.0	*
1Q15	443.69	1/5/2015	NE	36.49	NA	NA	NA	407.20	398.24 - 388.24 (45.45 - 55.45)	0.0	*
2Q15		4/6/2015	NE	36.56	NA	NA	NA	407.13		1.4	*
3Q15		7/6/2015	NE	35.09	NA	NA	NA	408.60		1.8	*
4Q15		10/1/2015	NE	34.29	NA	NA	NA	409.40		0.0	*
1Q16		1/4/2016	NE	34.22	NA	NA	NA	409.47		0.0	*
2Q16		4/5/2016	NE	32.98	NA	NA	NA	410.71		0.0	*
3Q16		7/5/2016	NE	32.77	NA	NA	NA	410.92		0.1	*
4Q16		10/5/2016	NE	30.13	NA	NA	NA	413.56		0.0	*
P-16											
1Q14	442.31	2/12/2014	NE	36.08	NA	NA	NA	406.23	396.57 - 386.57 (45.74 - 55.74)	10.1	*
2Q14		4/3/2014	NE	37.82	NA	NA	NA	404.49		42.2	*
3Q14		7/3/2014	NE	36.15	NA	NA	NA	406.16		0.7	*
4Q14		10/1/2014	NE	35.77	NA	NA	NA	406.54		0.0	*
1Q15	442.68	1/5/2015	NE	35.72	NA	NA	NA	406.96	396.94 - 386.94 (45.74 - 55.74)	0.0	*
2Q15		4/6/2015	NE	35.78	NA	NA	NA	406.90		0.3	*
3Q15		7/7/2015	NE	33.98	NA	NA	NA	408.70		0.0	*
4Q15		10/1/2015	NE	33.54	NA	NA	NA	409.14		0.0	*
1Q16		1/4/2016	NE	33.11	NA	NA	NA	409.57		1.1	*
2Q16		4/4/2016	NE	31.78	NA	NA	NA	410.90		0.0	*
3Q16		7/5/2016	NE	32.71	NA	NA	NA	409.97		0.2	*
4Q16		10/5/2016	NE	28.75	NA	NA	NA	413.93		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-43											
1Q14	444.07	2/12/2014	NE	39.52	NA	NA	NA	404.55	380.51 - 370.51 (63.56 - 73.56)	1.2	*
2Q14		4/4/2014	NE	41.35	NA	NA	NA	402.72		0.2	*
3Q14		7/1/2014	NE	39.73	NA	NA	NA	404.34		0.0	*
4Q14		10/2/2014	NE	39.31	NA	NA	NA	404.76		8.5	*
1Q15	444.44	1/6/2015	NE	38.78	NA	NA	NA	405.66	380.88 - 370.88 (63.56 - 73.56)	0.0	*
2Q15		4/6/2015	NE	39.01	NA	NA	NA	405.43		0.3	*
3Q15		7/7/2015	NE	38.03	NA	NA	NA	406.41		0.1	*
4Q15		10/1/2015	NE	37.03	NA	NA	NA	407.41		1.0	*
1Q16		1/4/2016	NE	36.96	NA	NA	NA	407.48		0.0	*
2Q16		4/5/2016	NE	35.73	NA	NA	NA	408.71		0.0	*
3Q16		7/5/2016	NE	35.52	NA	NA	NA	408.92		0.7	*
4Q16		10/5/2016	NE	33.34	NA	NA	NA	411.10		0.2	*
P-53											
1Q14	446.23	2/10/2014	NE	43.66	NA	NA	NA	402.57	407.73 - 382.73 (38.50 - 63.50)	0.0	
2Q14		4/1/2014	NE	44.32	NA	NA	NA	401.91		0.3	
3Q14		7/1/2014	NE	44.49	NA	NA	NA	401.74		0.0	
4Q14		10/2/2014	NE	43.81	NA	NA	NA	402.42		0.0	
1Q15	446.41	1/8/2015	NE	43.82	NA	NA	NA	402.59	407.91 - 382.91 (38.50 - 63.50)	0.0	
2Q15		4/2/2015	NE	44.65	NA	NA	NA	401.76		0.0	
3Q15		7/7/2015	NE	44.16	NA	NA	NA	402.25		0.0	
4Q15		10/1/2015	NE	42.69	NA	NA	NA	403.72		0.1	
1Q16		1/6/2016	NE	42.55	NA	NA	NA	403.86		0.1	
2Q16		4/6/2016	NE	41.41	NA	NA	NA	405.00		0.0	
3Q16		7/5/2016	NE	40.94	NA	NA	NA	405.47		0.0	
4Q16		10/4/2016	NE	40.12	NA	NA	NA	406.29		0.0	
P-54											
1Q14	442.18	2/10/2014	NE	42.20	NA	NA	NA	399.98	404.18 - 379.18 (38.00 - 63.00)	0.2	
2Q14		4/3/2014	NE	42.59	NA	NA	NA	399.59		0.2	
3Q14		7/1/2014	NE	41.88	NA	NA	NA	400.30		0.0	
4Q14		10/1/2014	NE	40.82	NA	NA	NA	401.36		0.0	
1Q15	442.32	1/5/2015	NE	41.69	NA	NA	NA	400.63	404.32 - 379.32 (38.00 - 63.00)	0.0	
2Q15		4/2/2015	NE	43.20	NA	NA	NA	399.12		0.0	
3Q15		7/6/2015	NE	42.40	NA	NA	NA	399.92		0.0	
4Q15		10/1/2015	NE	40.21	NA	NA	NA	402.11		0.1	
1Q16		1/4/2016	NE	40.60	NA	NA	NA	401.72		1.6	
2Q16		4/4/2016	NE	39.43	NA	NA	NA	402.89		0.0	
3Q16		7/6/2016	NE	38.47	NA	NA	NA	403.85		0.0	
4Q16		10/3/2016	NE	37.96	NA	NA	NA	404.36		0.4	*
P-55R											
1Q14	443.78	2/13/2014	43.24	43.37	400.41	400.54	0.13	400.51	403.35 - 393.35 (40.43 - 50.43)	93.3	
2Q14		4/4/2014	44.32	44.37	399.41	399.46	0.05	399.45		29.1	
3Q14		7/1/2014	43.63	43.76	400.02	400.15	0.13	400.12		192.0	
4Q14		10/3/2014	42.81	43.02	400.76	400.97	0.21	400.93		53.8	
1Q15	443.79	1/8/2015	42.94	43.19	400.60	400.85	0.25	400.80	403.36 - 393.36 (40.43 - 50.43)	93.9	
2Q15		4/1/2015	44.63	44.76	399.03	399.16	0.13	399.13		51.6	
3Q15		7/9/2015	44.16	44.27	399.52	399.63	0.11	399.61		0.3	
4Q15		10/1/2015	42.04	42.05	401.74	401.75	0.01	401.75		379.0	
1Q16		1/4/2016	42.26	42.36	401.43	401.53	0.10	401.51		38.4	
2Q16		4/4/2016	40.09	40.15	403.64	403.70	0.06	403.69		147.9	*
3Q16		7/5/2016	39.93	40.13	403.66	403.86	0.20	403.82		78.0	*
4Q16		10/3/2016	39.28	39.45	404.34	404.51	0.17	404.48		393.8	*
P-56											
1Q14	446.02	2/13/2014	NE	46.35	NA	NA	NA	399.67	405.20 - 380.20 (40.82 - 65.82)	0.0	
2Q14		4/4/2014	NE	47.32	NA	NA	NA	398.70		0.3	
3Q14		7/1/2014	NE	46.14	NA	NA	NA	399.88		0.0	
4Q14		10/3/2014	NE	45.20	NA	NA	NA	400.82		0.0	
1Q15	446.14	1/8/2015	NE	46.24	NA	NA	NA	399.90	405.32 - 380.32 (40.82 - 65.82)	0.2	
2Q15		4/1/2015	NE	48.02	NA	NA	NA	398.12		0.0	
3Q15		7/9/2015	NE	47.46	NA	NA	NA	398.68		0.0	
4Q15		10/1/2015	NE	44.89	NA	NA	NA	401.25		0.0	
1Q16		1/4/2016	NE	45.32	NA	NA	NA	400.82		0.0	
2Q16		4/4/2016	NE	44.15	NA	NA	NA	401.99		0.0	
3Q16		7/5/2016	NE	43.03	NA	NA	NA	403.11		0.2	
4Q16		10/3/2016	NE	42.72	NA	NA	NA	403.42		0.0	
P-57											
1Q14	446.53	2/12/2014	NE	46.57	NA	NA	NA	399.96	406.07 - 381.07 (40.46 - 65.46)	2.0	
2Q14		4/7/2014	NE	47.27	NA	NA	NA	399.26		4.1	
3Q14		7/1/2014	NE	46.12	NA	NA	NA	400.41		0.0	
4Q14		10/3/2014	NE	45.25	NA	NA	NA	401.28		0.0	
1Q15	446.96	1/5/2015	NE	47.37	NA	NA	NA	399.59	402.77 - 392.77 (44.19 - 54.19)	0.0	Replaced during 4Q14
2Q15		4/1/2015	NE	45.87	NA	NA	NA	401.09		0.0	
3Q15		7/9/2015	NE	48.22	NA	NA	NA	398.74		0.0	
4Q15		10/1/2015	NE	45.50	NA	NA	NA	401.46		0.1	
1Q16		1/4/2016	NE	45.75	NA	NA	NA	401.21		0.0	
2Q16		4/4/2016	NE	44.80	NA	NA	NA	402.16		0.4	
3Q16		7/5/2016	NE	44.20	NA	NA	NA	402.76		118.5	
4Q16		10/3/2016	NE	43.40	NA	NA	NA	403.56		140.5	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-58											
1Q14	444.92	2/12/2014	NE	44.66	NA	NA	NA	400.26	404.70 - 379.70 (40.21 - 65.21)	3.6	
2Q14		4/4/2014	NE	45.39	NA	NA	NA	399.53		0.3	
3Q14		7/2/2014	NE	44.25	NA	NA	NA	400.67		0.0	
4Q14		10/3/2014	NE	43.13	NA	NA	NA	401.79		0.0	
1Q15	444.94	1/8/2015	NE	44.98	NA	NA	NA	399.96	404.73 - 379.73 (40.21 - 65.21)	6.3	
2Q15		4/1/2015	NE	46.79	NA	NA	NA	398.15		0.0	
3Q15		7/9/2015	NE	46.01	NA	NA	NA	398.93		0.0	
4Q15		10/1/2015	NE	43.27	NA	NA	NA	401.67		1.3	
1Q16		1/4/2016	NE	43.50	NA	NA	NA	401.44		0.0	
2Q16		4/4/2016	NE	42.75	NA	NA	NA	402.19		0.1	
3Q16		7/5/2016	NE	42.21	NA	NA	NA	402.73		0.1	
4Q16		10/3/2016	NE	41.25	NA	NA	NA	403.69		0.0	
P-59											
1Q14	446.78	2/13/2014	NE	47.35	NA	NA	NA	399.43	398.87 - 373.87 (47.91 - 72.91)	111.4	*
2Q14		4/4/2014	NE	49.04	NA	NA	NA	397.74		0.3	
3Q14		7/1/2014	NE	47.17	NA	NA	NA	399.61		292.1	*
4Q14		10/3/2014	NE	46.39	NA	NA	NA	400.39		397.3	*
1Q15	446.86	1/8/2015	NE	47.00	NA	NA	NA	399.86	398.95 - 373.95 (47.91 - 72.91)	377.9	*
2Q15		4/1/2015	NE	48.86	NA	NA	NA	398.00		0.0	
3Q15		7/9/2015	NE	46.50	NA	NA	NA	400.36		0.0	*Gauging results anomalous
4Q15		10/1/2015	NE	45.81	NA	NA	NA	401.05		349.0	*
1Q16		1/4/2016	NE	46.43	NA	NA	NA	400.43		135.0	*
2Q16		4/4/2016	NE	45.22	NA	NA	NA	401.64		249.4	*
3Q16		7/5/2016	NE	43.67	NA	NA	NA	403.19		239.0	*
4Q16		10/3/2016	NE	43.65	NA	NA	NA	403.21		423.6	*
P-60											
1Q14	446.57	2/13/2014	46.68	46.79	399.78	399.89	0.11	399.87	403.12 - 383.12 (43.45 - 63.45)	2.4	
2Q14		4/4/2014	47.74	47.77	398.80	398.83	0.03	398.83		25.1	
3Q14		7/1/2014	46.85	46.93	399.64	399.72	0.08	399.71		309.3	
4Q14		10/3/2014	46.09	46.17	400.40	400.48	0.08	400.47		127.9	
1Q15	446.69	1/8/2015	46.29	46.49	400.20	400.40	0.20	400.36	403.24 - 383.24 (43.45 - 63.45)	6.1	
2Q15		4/1/2015	48.04	48.07	398.62	398.65	0.03	398.64		20.0	
3Q15		7/9/2015	47.61	47.75	398.94	399.08	0.14	399.05		0.0	
4Q15		10/1/2015	45.28	45.35	401.34	401.41	0.07	401.40		362.0	
1Q16		1/4/2016	45.73	45.79	400.90	400.96	0.06	400.95		7.0	
2Q16		4/4/2016	44.45	44.50	402.19	402.24	0.05	402.23		6.8	
3Q16		7/5/2016	43.13	43.22	403.47	403.56	0.09	403.54		107.9	*
4Q16		10/3/2016	43.00	43.05	403.64	403.69	0.05	403.68		144.8	*
P-60-11											
1Q14	446.18	2/13/2014	NE	44.99	NA	NA	NA	401.19	413.03 - 383.03 (33.15 - 63.15)	0.0	
2Q14		4/4/2014	NE	45.58	NA	NA	NA	400.60		0.2	
3Q14		7/1/2014	NE	45.74	NA	NA	NA	400.44		1.3	
4Q14		10/3/2014	NE	44.62	NA	NA	NA	401.56		0.0	
1Q15	446.26	1/8/2015	NE	44.85	NA	NA	NA	401.41	413.11 - 383.11 (33.15 - 63.15)	0.0	
2Q15		4/1/2015	NE	46.22	NA	NA	NA	400.04		0.0	
3Q15		7/8/2015	NE	46.16	NA	NA	NA	400.10		0.7	
4Q15		10/1/2015	NE	44.01	NA	NA	NA	402.25		0.0	
1Q16		1/4/2016	NE	44.51	NA	NA	NA	401.75		0.4	
2Q16		4/4/2016	NE	43.08	NA	NA	NA	403.18		0.0	
3Q16		7/5/2016	NE	42.21	NA	NA	NA	404.05		1.4	
4Q16		10/3/2016	NE	41.90	NA	NA	NA	404.36		27.9	
P-60-12											
1Q14	443.31	2/13/2014	NE	43.45	NA	NA	NA	399.86	383.31 - 373.31 (60.00 - 70.00)	72.6	*
2Q14		4/4/2014	NE	44.54	NA	NA	NA	398.77		43.5	*
3Q14		7/1/2014	NE	43.66	NA	NA	NA	399.65		46.2	*
4Q14		10/3/2014	NE	42.93	NA	NA	NA	400.38		0.6	*
1Q15	443.43	1/8/2015	NE	43.16	NA	NA	NA	400.27	383.43 - 373.43 (60.00 - 70.00)	28.1	*
2Q15		4/1/2015	NE	44.83	NA	NA	NA	398.60		86.9	*
3Q15		7/9/2015	NE	45.42	NA	NA	NA	398.01		0.0	*
4Q15		10/1/2015	NE	42.10	NA	NA	NA	401.33		0.0	*
1Q16		1/4/2016	NE	42.58	NA	NA	NA	400.85		0.3	*
2Q16		4/4/2016	NE	41.31	NA	NA	NA	402.12		9.9	*
3Q16		7/5/2016	NE	39.94	NA	NA	NA	403.49		36.2	*
4Q16		10/3/2016	NE	39.77	NA	NA	NA	403.66		11.3	*
P-60-13											
1Q14	442.43	2/13/2014	NM	NM	NA	NA	NA	NA	402.43 - 382.43 (40.00 - 60.00)	NM	
2Q14		4/4/2014	NE	42.81	NA	NA	NA	399.62		0.7	
3Q14		7/1/2014	NE	42.31	NA	NA	NA	400.12		0.0	
4Q14		10/3/2014	NE	40.78	NA	NA	NA	401.65		15.0	
1Q15	442.92	1/8/2015	NE	40.61	NA	NA	NA	402.31	402.92 - 382.92 (40.00 - 60.00)	4.5	
2Q15		4/1/2015	NE	41.22	NA	NA	NA	401.70		0.0	
3Q15		7/9/2015	NE	41.20	NA	NA	NA	401.72		0.0	
4Q15		10/1/2015	NE	40.19	NA	NA	NA	402.73		8.5	
1Q16		1/4/2016	NE	40.65	NA	NA	NA	402.27		2.7	
2Q16		4/4/2016	NE	39.72	NA	NA	NA	403.20		0.2	*
3Q16		7/5/2016	NE	39.06	NA	NA	NA	403.86		0.2	*
4Q16		10/3/2016	NE	38.78	NA	NA	NA	404.14		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-60-S											
1Q14	446.98	2/13/2014	45.48	45.86	401.12	401.50	0.38	401.42	410.50 - 395.50 (36.48 - 51.48)	0.3	
2Q14		4/4/2014	46.38	46.57	400.41	400.60	0.19	400.56		0.2	
3Q14		7/1/2014	46.35	46.37	400.61	400.63	0.02	400.63		0.1	
4Q14		10/3/2014	NE	45.38	NA	NA	NA	401.60		0.9	
1Q15	446.84	1/8/2015	45.08	45.70	401.14	401.76	0.62	401.64	410.36 - 395.36 (36.48 - 51.48)	9.1	
2Q15		4/1/2015	46.62	47.07	399.77	400.22	0.45	400.13		0.1	
3Q15		7/9/2015	46.84	46.90	399.94	400.00	0.06	399.99		0.0	
4Q15		10/1/2015	NE	44.76	NA	NA	NA	402.08		0.0	
1Q16		1/4/2016	NE	45.25	NA	NA	NA	401.59		0.1	
2Q16		4/4/2016	NE	43.78	NA	NA	NA	403.06		0.0	
3Q16		7/5/2016	NE	42.84	NA	NA	NA	404.00		0.1	
4Q16		10/3/2016	NE	42.82	NA	NA	NA	404.02		0.3	
P-61											
1Q14	444.27	2/12/2014	44.62	46.17	398.10	399.65	1.55	399.34	398.59 - 373.59 (45.68 - 70.68)	410.7	*
2Q14		4/4/2014	45.80	45.81	398.46	398.47	0.01	398.47		13.0	
3Q14		7/2/2014	44.75	45.49	398.78	399.52	0.74	399.37		150.6	*
4Q14		10/2/2014	43.47	44.23	400.04	400.80	0.76	400.64		269.9	*
1Q15	444.47	1/5/2015	44.62	46.14	398.33	399.85	1.52	399.55	398.80 - 373.80 (45.68 - 70.68)	431.0	*
2Q15		4/1/2015	46.06	48.03	396.44	398.41	1.97	398.02		0.0	
3Q15		7/9/2015	45.99	47.05	397.42	398.48	1.06	398.27		0.1	
4Q15		10/1/2015	43.27	43.93	400.54	401.20	0.66	401.07		20.7	*
1Q16		1/5/2016	43.91	43.95	400.52	400.56	0.04	400.55		1.3	*
2Q16		4/4/2016	42.77	42.82	401.65	401.70	0.05	401.69		40.4	*
3Q16		7/6/2016	NE	41.63	NA	NA	NA	402.84		27.3	*
4Q16		10/4/2016	NE	41.11	NA	NA	NA	403.36		17.7	*
P-62											
1Q14	442.32	2/12/2014	42.35	43.85	398.47	399.97	1.50	399.67	400.85 - 375.85 (41.47 - 66.47)	198.1	
2Q14		4/4/2014	43.51	45.28	397.04	398.81	1.77	398.46		0.8	
3Q14		7/2/2014	42.58	43.69	398.63	399.74	1.11	399.52		0.0	
4Q14		10/3/2014	41.64	42.89	399.43	400.68	1.25	400.43		0.9	
1Q15	442.43	1/9/2015	42.48	43.96	398.47	399.95	1.48	399.65	400.96 - 375.96 (41.47 - 66.47)	0.4	
2Q15		4/1/2015	43.65	45.18	397.25	398.78	1.53	398.47		0.0	
3Q15		7/8/2015	43.49	44.42	398.01	398.94	0.93	398.75		0.3	
4Q15		10/2/2015	41.17	42.06	400.37	401.26	0.89	401.08		0.2	*
1Q16		1/5/2016	41.40	42.20	400.23	401.03	0.80	400.87		0.0	
2Q16		4/6/2016	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
3Q16		7/6/2016	39.34	40.09	402.34	403.09	0.75	402.94		0.1	*
4Q16		10/4/2016	38.63	38.70	403.73	403.80	0.07	403.79		268.2	*
P-63											
1Q14	445.75	2/12/2014	NE	45.06	NA	NA	NA	400.69	398.46 - 373.46 (47.29 - 72.29)	22.9	*
2Q14		4/4/2014	47.98	48.14	397.61	397.77	0.16	397.74		0.3	
3Q14		7/2/2014	46.80	46.82	398.93	398.95	0.02	398.95		47.5	*
4Q14		10/2/2014	45.90	45.94	399.81	399.85	0.04	399.84		70.3	*
1Q15	445.85	1/9/2015	46.23	46.25	399.60	399.62	0.02	399.62	398.56 - 373.56 (47.29 - 72.29)	14.6	*
2Q15		4/1/2015	47.30	47.70	398.15	398.55	0.40	398.47		12.8	
3Q15		7/7/2015	47.18	47.54	398.31	398.67	0.36	398.60		13.8	*
4Q15		10/2/2015	45.26	45.31	400.54	400.59	0.05	400.58		52.8	*
1Q16		1/5/2016	45.06	45.09	400.76	400.79	0.03	400.78		261.3	*
2Q16		4/4/2016	43.83	43.86	401.99	402.02	0.03	402.01		12.1	*
3Q16		7/6/2016	NE	43.46	NA	NA	NA	402.39		5.3	*
4Q16		10/4/2016	42.14	42.17	403.68	403.71	0.03	403.70		6.0	*
P-64											
1Q14	446.52	2/12/2014	47.93	47.94	398.58	398.59	0.01	398.59	399.29 - 374.29 (47.23 - 72.23)	114.2	
2Q14		4/4/2014	49.60	49.68	396.84	396.92	0.08	396.90		6.8	
3Q14		7/2/2014	48.08	48.36	398.16	398.44	0.28	398.38		0.0	
4Q14		10/2/2014	47.30	47.62	398.90	399.22	0.32	399.16		336.2	
1Q15	446.89	1/9/2015	47.29	47.51	399.38	399.60	0.22	399.56	399.66 - 374.66 (47.23 - 72.23)	12.6	
2Q15		4/1/2015	48.44	49.20	397.69	398.45	0.76	398.30		79.7	
3Q15		7/7/2015	48.38	48.62	398.27	398.51	0.24	398.46		171.4	
4Q15		10/2/2015	46.50	46.85	400.04	400.39	0.35	400.32		59.2	*
1Q16		1/5/2016	46.39	46.43	400.46	400.50	0.04	400.49		204.5	*
2Q16		4/4/2016	44.96	45.00	401.89	401.93	0.04	401.92		55.5	*
3Q16		7/6/2016	44.78	44.86	402.03	402.11	0.08	402.09		13.4	*
4Q16		10/4/2016	43.21	43.29	403.60	403.68	0.08	403.66		16.0	*
P-65											
1Q14	444.60	2/12/2014	NE	44.91	NA	NA	NA	399.69	397.58 - 372.58 (47.02 - 72.02)	2.3	*
2Q14		4/4/2014	NE	46.68	NA	NA	NA	397.92		0.6	*
3Q14		7/2/2014	NE	45.37	NA	NA	NA	399.23		0.0	*
4Q14		10/2/2014	NE	44.44	NA	NA	NA	400.16		16.5	*
1Q15		1/5/2015	NE	44.46	NA	NA	NA	400.14		5.5	*
2Q15		4/3/2015	NE	46.27	NA	NA	NA	398.33		7.6	*
3Q15		7/7/2015	NE	46.08	NA	NA	NA	398.52		2.9	*
4Q15		10/1/2015	43.83	43.84	400.76	400.77	0.01	400.77		35.8	*
1Q16		1/5/2016	NE	43.78	NA	NA	NA	400.82		4.0	*
2Q16		4/4/2016	NE	42.26	NA	NA	NA	402.34		0.3	*
3Q16		7/7/2016	NE	42.05	NA	NA	NA	402.55		NM	*
4Q16		10/4/2016	40.75	40.78	403.82	403.85	0.03	403.84		17.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-66											
1Q14	436.70	2/11/2014	NE	36.39	NA	NA	NA	400.31	401.98 - 376.98 (34.72 - 59.72)	13.1	
2Q14		4/4/2014	NE	36.99	NA	NA	NA	399.71		0.2	
3Q14		7/2/2014	NE	35.80	NA	NA	NA	400.90		0.9	
4Q14		10/3/2014	NE	34.77	NA	NA	NA	401.93		0.4	
1Q15	436.81	1/9/2015	NE	36.73	NA	NA	NA	400.08	402.09 - 377.09 (34.72 - 59.72)	52.6	
2Q15		4/3/2015	NE	38.26	NA	NA	NA	398.55		0.0	
3Q15		7/7/2015	NE	37.34	NA	NA	NA	399.47		0.2	
4Q15		10/2/2015	NE	34.83	NA	NA	NA	401.98		425.0	
1Q16		1/6/2016	NE	34.68	NA	NA	NA	402.13		320.9	*
2Q16		4/5/2016	NE	34.34	NA	NA	NA	402.47		10.3	*
3Q16		7/8/2016	NE	33.74	NA	NA	NA	403.07		76.2	*
4Q16		10/4/2016	NE	32.67	NA	NA	NA	404.14		68.1	*
P-67											
1Q14	444.13	2/11/2014	42.60	42.63	401.50	401.53	0.03	401.52	402.16 - 377.16 (41.98 - 66.98)	60.9	
2Q14		4/4/2014	NE	43.35	NA	NA	NA	400.78		1.2	
3Q14		7/3/2014	NE	42.39	NA	NA	NA	401.74		1.8	
4Q14		10/3/2014	NE	41.37	NA	NA	NA	402.76		45.9	*
1Q15	444.10	1/9/2015	42.59	42.61	401.49	401.51	0.02	401.51	402.12 - 377.12 (41.98 - 66.98)	23.0	
2Q15		4/3/2015	NE	44.16	NA	NA	NA	399.94		0.1	
3Q15		7/7/2015	NE	43.27	NA	NA	NA	400.83		0.0	
4Q15		10/2/2015	NE	41.09	NA	NA	NA	403.01		30.1	*
1Q16		1/5/2016	NE	41.06	NA	NA	NA	403.04		0.4	*
2Q16		4/5/2016	NE	40.41	NA	NA	NA	403.69		42.1	*
3Q16		7/8/2016	NE	39.83	NA	NA	NA	404.27		9.9	*
4Q16		10/4/2016	NE	38.63	NA	NA	NA	405.47		13.1	*
P-68											
1Q14	445.07	2/13/2014	45.18	45.29	399.78	399.89	0.11	399.87	399.81 - 374.81 (45.26 - 70.26)	172.6	*
2Q14		4/7/2014	45.94	46.28	398.79	399.13	0.34	399.06		9.3	
3Q14		7/2/2014	45.27	45.32	399.75	399.80	0.05	399.79		215.5	
4Q14		10/3/2014	44.56	44.67	400.40	400.51	0.11	400.49		254.8	*
1Q15	445.18	1/8/2015	44.80	44.85	400.33	400.38	0.05	400.37	399.92 - 374.92 (45.26 - 70.26)	277.7	*
2Q15		4/1/2015	46.52	46.63	398.55	398.66	0.11	398.64		206.4	
3Q15		7/9/2015	46.33	46.41	398.77	398.85	0.08	398.83		6.9	
4Q15		10/1/2015	43.89	43.96	401.22	401.29	0.07	401.28		246.0	*
1Q16		1/5/2016	44.35	44.40	400.78	400.83	0.05	400.82		70.0	*
2Q16		4/4/2016	43.15	43.23	401.95	402.03	0.08	402.01		196.7	*
3Q16		7/5/2016	40.80	41.86	403.32	404.38	1.06	404.17		196.9	*
4Q16		10/4/2016	42.52	42.59	402.59	402.66	0.07	402.65		182.6	*
P-69											
1Q14	443.18	2/13/2014	NE	43.85	NA	NA	NA	399.33	402.36 - 377.36 (40.82 - 65.82)	79.9	
2Q14		4/7/2014	NE	44.88	NA	NA	NA	398.30		0.2	
3Q14		7/2/2014	NE	44.00	NA	NA	NA	399.18		0.0	
4Q14		10/2/2014	NE	43.01	NA	NA	NA	400.17		0.0	
1Q15	443.40	1/9/2015	NE	44.05	NA	NA	NA	399.35	402.58 - 377.58 (40.82 - 65.82)	0.9	
2Q15		4/3/2015	NE	45.51	NA	NA	NA	397.89		0.0	
3Q15		7/9/2015	NE	45.08	NA	NA	NA	398.32		0.1	
4Q15		10/1/2015	NE	42.51	NA	NA	NA	400.89		2.2	
1Q16		1/6/2016	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
2Q16		4/4/2016	NE	41.84	NA	NA	NA	401.56		0.8	
3Q16		7/6/2016	NE	40.31	NA	NA	NA	403.09		237.9	*
4Q16		10/4/2016	NE	40.22	NA	NA	NA	403.18		121.7	*
P-70											
1Q14	442.83	2/12/2014	NE	43.28	NA	NA	NA	399.55	398.16 - 373.16 (44.67 - 69.67)	85.0	*
2Q14		4/4/2014	44.21	45.35	397.48	398.62	1.14	398.39		200.7	*
3Q14		7/2/2014	43.22	43.88	398.95	399.61	0.66	399.48		319.6	*
4Q14		10/2/2014	42.08	42.72	400.11	400.75	0.64	400.62		299.6	*
1Q15	442.95	1/8/2015	42.79	43.42	399.53	400.16	0.63	400.03	398.28 - 373.28 (44.67 - 69.67)	208.3	*
2Q15		4/1/2015	44.42	45.77	397.18	398.53	1.35	398.26		180.4	
3Q15		7/7/2015	44.34	44.95	398.00	398.61	0.61	398.49		270.4	*
4Q15		10/1/2015	41.70	42.35	400.60	401.25	0.65	401.12		315.2	*
1Q16		1/5/2016	42.22	42.47	400.48	400.73	0.25	400.68		170.0	*
2Q16		4/4/2016	41.07	41.11	401.84	401.88	0.04	401.87		212.8	*
3Q16		7/6/2016	NE	39.92	NA	NA	NA	403.03		388.8	*
4Q16		10/4/2016	39.40	39.45	403.50	403.55	0.05	403.54		345.3	*
P-71											
1Q14	444.83	2/13/2014	NE	44.35	NA	NA	NA	400.48	402.22 - 377.22 (42.61 - 67.61)	0.0	
2Q14		4/4/2014	NE	45.48	NA	NA	NA	399.35		0.8	
3Q14		7/3/2014	NE	44.61	NA	NA	NA	400.22		3.9	
4Q14		10/2/2014	NE	43.43	NA	NA	NA	401.40		185.5	
1Q15	444.94	1/5/2015	NE	43.98	NA	NA	NA	400.96	402.33 - 377.33 (42.61 - 67.61)	72.6	
2Q15		4/1/2015	NE	45.83	NA	NA	NA	399.11		0.4	
3Q15		7/7/2015	NE	45.02	NA	NA	NA	399.92		0.0	Gauging result anomalous
4Q15		10/1/2015	NE	43.59	NA	NA	NA	401.35		2.5	
1Q16		1/6/2016	NE	43.06	NA	NA	NA	401.88		68.2	
2Q16		4/4/2016	NE	42.27	NA	NA	NA	402.67		19.4	*
3Q16		7/7/2016	NE	41.75	NA	NA	NA	403.19		74.9	*
4Q16		10/4/2016	NE	40.76	NA	NA	NA	404.18		78.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-72											
1Q14	444.43	2/12/2014	NE	43.86	NA	NA	NA	400.57	398.66 - 373.66 (45.77 - 70.77)	37.2	*
2Q14		4/4/2014	NE	45.12	NA	NA	NA	399.31		2.2	*
3Q14		7/2/2014	NE	44.19	NA	NA	NA	400.24		6.5	*
4Q14		10/2/2014	NE	43.02	NA	NA	NA	401.41		16.2	*
1Q15	444.49	1/8/2015	NE	43.63	NA	NA	NA	400.86	398.72 - 373.72 (45.77 - 70.77)	23.1	*
2Q15		4/1/2015	NE	45.72	NA	NA	NA	398.77		12.8	*
3Q15		7/7/2015	NE	45.56	NA	NA	NA	398.93		1.6	*
4Q15		10/1/2015	43.11	43.12	401.37	401.38	0.01	401.38		3.8	*
1Q16		1/6/2016	NE	42.67	NA	NA	NA	401.82		16.5	*
2Q16		4/4/2016	NE	41.82	NA	NA	NA	402.67		1.8	*
3Q16		7/6/2016	NE	41.55	NA	NA	NA	402.94		0.4	*
4Q16		10/4/2016	NE	40.53	NA	NA	NA	403.96		0.6	*
P-73											
1Q14	443.76	2/12/2014	NE	43.98	NA	NA	NA	399.78	402.16 - 377.16 (41.59 - 66.59)	70.1	
2Q14		4/7/2014	NE	44.82	NA	NA	NA	398.94		0.4	
3Q14		7/2/2014	NE	43.54	NA	NA	NA	400.22		0.0	
4Q14		10/3/2014	NE	42.69	NA	NA	NA	401.07		0.7	
1Q15	443.86	1/5/2015	NE	45.24	NA	NA	NA	398.62	402.27 - 377.27 (41.59 - 66.59)	8.0	
2Q15		4/3/2015	NE	46.59	NA	NA	NA	397.27		0.0	
3Q15		7/9/2015	NE	46.16	NA	NA	NA	397.70		0.1	
4Q15		10/1/2015	NE	43.05	NA	NA	NA	400.81		0.4	
1Q16		1/6/2016	NE	42.55	NA	NA	NA	401.31		0.0	
2Q16		4/4/2016	NE	42.44	NA	NA	NA	401.42		0.0	
3Q16		7/7/2016	NE	41.83	NA	NA	NA	402.03		NM	
4Q16		10/4/2016	NE	40.81	NA	NA	NA	403.05		20.0	*
P-74											
1Q14	442.63	1/14/2014	NE	43.18	NA	NA	NA	399.45	398.20 - 373.20 (44.43 - 69.43)	2.8	*
2Q14		4/7/2014	NE	43.86	NA	NA	NA	398.77		7.5	*
3Q14		7/2/2014	NE	43.25	NA	NA	NA	399.38		0.1	*
4Q14		10/2/2014	NE	42.21	NA	NA	NA	400.42		0.0	*
1Q15	442.72	1/9/2015	NE	43.63	NA	NA	NA	399.09	398.29 - 373.29 (44.43 - 69.43)	0.1	*
2Q15		4/3/2015	NE	44.85	NA	NA	NA	397.87		0.0	
3Q15		7/9/2015	NE	48.03	NA	NA	NA	394.69		0.1	Gauging result anomalous
4Q15		10/1/2015	NE	41.79	NA	NA	NA	400.93		0.0	*
1Q16		1/6/2016	NE	40.80	NA	NA	NA	401.92		0.4	*
2Q16		4/4/2016	NE	41.16	NA	NA	NA	401.56		0.3	*
3Q16		7/6/2016	NE	39.63	NA	NA	NA	403.09		0.0	*
4Q16		10/4/2016	NE	39.51	NA	NA	NA	403.21		9.7	*
P-75											
1Q14	446.32	2/11/2014	NE	46.05	NA	NA	NA	400.27	403.19 - 378.19 (43.13 - 68.13)	4.1	
2Q14		4/4/2014	NE	46.69	NA	NA	NA	399.63		0.3	
3Q14		7/3/2014	NE	45.59	NA	NA	NA	400.73		0.0	
4Q14		10/3/2014	NE	44.52	NA	NA	NA	401.80		0.1	
1Q15	446.42	1/9/2015	NE	46.74	NA	NA	NA	399.68	403.29 - 378.29 (43.13 - 68.13)	0.1	
2Q15		4/3/2015	48.23	48.25	398.17	398.19	0.02	398.19		0.0	
3Q15		7/7/2015	NE	47.44	NA	NA	NA	398.98		0.0	
4Q15		10/2/2015	NE	44.74	NA	NA	NA	401.68		0.0	
1Q16		1/5/2016	NE	44.70	NA	NA	NA	401.72		1.0	
2Q16		4/5/2016	NE	44.33	NA	NA	NA	402.09		0.2	
3Q16		7/8/2016	NE	43.81	NA	NA	NA	402.61		0.0	
4Q16		10/4/2016	NE	42.64	NA	NA	NA	403.78		9.9	*
P-82A											
1Q14	434.69	2/10/2014	NE	30.47	NA	NA	NA	404.22	401.48 - 386.48 (33.21 - 48.21)	8.9	*
2Q14		4/4/2014	NE	32.21	NA	NA	NA	402.48		0.0	*
3Q14		7/2/2014	NE	30.08	NA	NA	NA	404.61		0.6	*
4Q14		10/2/2014	NE	29.25	NA	NA	NA	405.44		0.0	*
1Q15	435.02	1/8/2015	NE	29.59	NA	NA	NA	405.43	401.81 - 386.81 (33.21 - 48.21)	0.1	*
2Q15		4/3/2015	NE	30.99	NA	NA	NA	404.03		0.0	*
3Q15		7/6/2015	NE	29.31	NA	NA	NA	405.71		0.3	*
4Q15		10/2/2015	NE	28.65	NA	NA	NA	406.37		0.2	*
1Q16		1/5/2016	NE	27.72	NA	NA	NA	407.30		0.0	*
2Q16		4/5/2016	NE	27.66	NA	NA	NA	407.36		0.0	*
3Q16		7/7/2016	NE	26.72	NA	NA	NA	408.30		0.0	*
4Q16		10/5/2016	NE	25.73	NA	NA	NA	409.29		0.0	*
P-82B											
1Q14	434.44	2/10/2014	NE	30.20	NA	NA	NA	404.24	370.84 - 368.84 (63.60 - 65.60)	0.3	*
2Q14		4/4/2014	NE	32.93	NA	NA	NA	401.51		0.0	*
3Q14		7/2/2014	NE	29.79	NA	NA	NA	404.65		0.7	*
4Q14		10/2/2014	NE	28.94	NA	NA	NA	405.50		0.0	*
1Q15	434.48	1/8/2015	NE	29.32	NA	NA	NA	405.16	370.88 - 368.88 (63.60 - 65.60)	0.2	*
2Q15		4/3/2015	NE	30.73	NA	NA	NA	403.75		0.0	*
3Q15		7/6/2015	NE	29.60	NA	NA	NA	404.88		0.2	*
4Q15		10/2/2015	NE	28.40	NA	NA	NA	406.08		0.3	*
1Q16		1/5/2016	NE	27.41	NA	NA	NA	407.07		0.0	*
2Q16		4/5/2016	NE	27.39	NA	NA	NA	407.09		0.2	*
3Q16		7/7/2016	NE	26.49	NA	NA	NA	407.99		0.0	*
4Q16		10/5/2016	NE	25.46	NA	NA	NA	409.02		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-82C											
1Q14	434.16	2/10/2014	NE	30.23	NA	NA	NA	403.93	351.39 - 349.39 (82.77 - 84.77)	0.2	*
2Q14		4/4/2014	NE	28.42	NA	NA	NA	405.74		0.1	*
3Q14		7/2/2014	NE	29.65	NA	NA	NA	404.51		0.7	*
4Q14		10/2/2014	NE	29.09	NA	NA	NA	405.07		0.0	*
1Q15	434.21	1/8/2015	NE	29.02	NA	NA	NA	405.19	351.44 - 349.44 (82.77 - 84.77)	0.2	*
2Q15		4/3/2015	NE	30.44	NA	NA	NA	403.77		0.4	*
3Q15		7/6/2015	NE	29.32	NA	NA	NA	404.89		0.2	*
4Q15		10/2/2015	NE	27.93	NA	NA	NA	406.28		0.1	*
1Q16		1/5/2016	NE	27.42	NA	NA	NA	406.79		0.0	*
2Q16		4/5/2016	NE	27.47	NA	NA	NA	406.74		0.0	*
3Q16		7/7/2016	NE	26.26	NA	NA	NA	407.95		0.0	*
4Q16		10/5/2016	NE	25.20	NA	NA	NA	409.01		0.0	*
P-82D											
1Q14	434.85	2/10/2014	NE	31.00	NA	NA	NA	403.85	323.43 - 321.43 (111.42 - 113.42)	14.5	*
2Q14		4/4/2014	NE	35.40	NA	NA	NA	399.45		0.2	*
3Q14		7/2/2014	NE	30.61	NA	NA	NA	404.24		0.4	*
4Q14		10/2/2014	NE	29.74	NA	NA	NA	405.11		0.0	*
1Q15	434.89	1/6/2015	NE	29.80	NA	NA	NA	405.09	323.47 - 321.47 (111.42 - 113.42)	0.1	*
2Q15		4/3/2015	NE	31.24	NA	NA	NA	403.65		0.4	*
3Q15		7/6/2015	NE	30.02	NA	NA	NA	404.87		0.2	*
4Q15		10/2/2015	NE	28.69	NA	NA	NA	406.20		0.3	*
1Q16		1/5/2016	NE	28.14	NA	NA	NA	406.75		0.0	*
2Q16		4/5/2016	NE	27.72	NA	NA	NA	407.17		0.0	*
3Q16		7/7/2016	NE	26.98	NA	NA	NA	407.91		0.0	*
4Q16		10/5/2016	NE	25.95	NA	NA	NA	408.94		0.0	*
P-83A											
1Q14	445.23	2/11/2014	NE	44.72	NA	NA	NA	400.51	398.58 - 383.58 (46.65 - 61.65)	0.6	*
2Q14		4/1/2014	NE	45.74	NA	NA	NA	399.49		0.0	*
3Q14		7/1/2014	NE	45.12	NA	NA	NA	400.11		0.0	*
4Q14		10/1/2014	NE	44.60	NA	NA	NA	400.63		0.0	*
1Q15	445.36	1/6/2015	NE	44.80	NA	NA	NA	400.56	398.71 - 383.71 (46.65 - 61.65)	0.0	*
2Q15		4/6/2015	NE	45.02	NA	NA	NA	400.34		0.1	*
3Q15		7/6/2015	NE	44.22	NA	NA	NA	401.14		0.7	*
4Q15		10/1/2015	NE	43.33	NA	NA	NA	402.03		0.1	*
1Q16		1/5/2016	NE	42.50	NA	NA	NA	402.86		0.1	*
2Q16		4/4/2016	NE	41.74	NA	NA	NA	403.62		0.0	*
3Q16		7/7/2016	NE	41.34	NA	NA	NA	404.02		1.3	*
4Q16		10/3/2016	NE	39.79	NA	NA	NA	405.57		0.0	*
P-83B											
1Q14	445.47	2/11/2014	NE	44.97	NA	NA	NA	400.50	375.82 - 373.82 (69.65 - 71.65)	0.3	*
2Q14		4/1/2014	NE	46.01	NA	NA	NA	399.46		0.0	*
3Q14		7/1/2014	NE	45.39	NA	NA	NA	400.08		0.0	*
4Q14		10/1/2014	NE	44.87	NA	NA	NA	400.60		0.0	*
1Q15	445.55	1/6/2015	NE	44.94	NA	NA	NA	400.61	375.90 - 373.90 (69.65 - 71.65)	0.0	*
2Q15		4/6/2015	NE	45.43	NA	NA	NA	400.12		0.1	*
3Q15		7/6/2015	NE	44.48	NA	NA	NA	401.07		2.7	*
4Q15		10/1/2015	NE	43.58	NA	NA	NA	401.97		0.0	*
1Q16		1/5/2016	NE	42.81	NA	NA	NA	402.74		0.0	*
2Q16		4/4/2016	NE	42.03	NA	NA	NA	403.52		0.0	*
3Q16		7/7/2016	NE	41.76	NA	NA	NA	403.79		0.0	*
4Q16		10/3/2016	NE	40.23	NA	NA	NA	405.32		1.4	*
P-83C											
1Q14	445.64	2/11/2014	NE	45.43	NA	NA	NA	400.21	353.25 - 351.25 (92.39 - 94.39)	13.7	*
2Q14		4/1/2014	NE	46.40	NA	NA	NA	399.24		0.0	*
3Q14		7/1/2014	NE	45.84	NA	NA	NA	399.80		0.0	*
4Q14		10/1/2014	NE	45.00	NA	NA	NA	400.64		0.4	*
1Q15	445.78	1/6/2015	NE	45.53	NA	NA	NA	400.25	353.39 - 351.39 (92.39 - 94.39)	0.0	*
2Q15		4/6/2015	NE	45.42	NA	NA	NA	400.36		0.1	*
3Q15		7/6/2015	NE	44.93	NA	NA	NA	400.85		0.6	*
4Q15		10/1/2015	NE	43.70	NA	NA	NA	402.08		0.5	*
1Q16		1/5/2016	NE	42.93	NA	NA	NA	402.85		0.1	*
2Q16		4/4/2016	NE	42.50	NA	NA	NA	403.28		0.2	*
3Q16		7/7/2016	NE	47.76	NA	NA	NA	398.02		0.0	*
4Q16		10/3/2016	NE	40.19	NA	NA	NA	405.59		0.0	*
P-83D											
1Q14	445.55	2/11/2014	NE	45.40	NA	NA	NA	400.15	311.84 - 309.84 (133.71 - 135.71)	0.4	*
2Q14		4/1/2014	NE	46.36	NA	NA	NA	399.19		0.0	*
3Q14		7/1/2014	NE	45.79	NA	NA	NA	399.76		0.0	*
4Q14		10/1/2014	NE	45.05	NA	NA	NA	400.50		0.1	*
1Q15	445.70	1/6/2015	NE	45.32	NA	NA	NA	400.38	311.99 - 309.99 (133.71 - 135.71)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.32		0.1	*
3Q15		7/6/2015	NE	44.88	NA	NA	NA	400.82		4.0	*
4Q15		10/1/2015	NE	43.66	NA	NA	NA	402.04		0.1	*
1Q16		1/5/2016	NE	42.91	NA	NA	NA	402.79		0.0	*
2Q16		4/4/2016	NE	42.43	NA	NA	NA	403.27		0.0	*
3Q16		7/7/2016	NE	41.72	NA	NA	NA	403.98		0.0	*
4Q16		10/3/2016	NE	40.15	NA	NA	NA	405.55		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-84A											
1Q14	446.39	2/13/2014	NE	44.73	NA	NA	NA	401.66	397.89 - 382.89 (48.50 - 63.50)	0.0	*
2Q14		4/4/2014	NE	46.73	NA	NA	NA	399.66		0.3	*
3Q14		7/3/2014	NE	45.55	NA	NA	NA	400.84		0.0	*
4Q14		10/3/2014	NE	44.95	NA	NA	NA	401.44		0.0	*
1Q15	446.49	1/12/2015	NE	44.96	NA	NA	NA	401.53	397.99 - 382.99 (48.50 - 63.50)	0.0	*
2Q15		4/6/2015	NE	45.65	NA	NA	NA	400.84		0.2	*
3Q15		7/7/2015	NE	45.11	NA	NA	NA	401.38		0.0	*
4Q15		10/1/2015	NE	43.91	NA	NA	NA	402.58		0.0	*
1Q16		1/5/2016	NE	43.45	NA	NA	NA	403.04		0.0	*
2Q16		4/5/2016	NE	42.37	NA	NA	NA	404.12		0.0	*
3Q16		7/6/2016	NE	41.86	NA	NA	NA	404.63		0.0	*
4Q16		10/5/2016	NE	40.91	NA	NA	NA	405.58		0.6	*
P-84B											
1Q14	446.10	2/13/2014	NE	44.33	NA	NA	NA	401.77	372.60 - 370.60 (73.50 - 75.50)	0.0	*
2Q14		4/4/2014	NE	46.45	NA	NA	NA	399.65		0.0	*
3Q14		7/3/2014	NE	45.31	NA	NA	NA	400.79		0.0	*
4Q14		10/3/2014	NE	44.73	NA	NA	NA	401.37		0.0	*
1Q15	446.21	1/12/2015	NE	44.68	NA	NA	NA	401.53	372.71 - 370.71 (73.50 - 75.50)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.83		0.5	*
3Q15		7/7/2015	NE	44.90	NA	NA	NA	401.31		0.0	*
4Q15		10/1/2015	NE	43.66	NA	NA	NA	402.55		0.0	*
1Q16		1/5/2016	NE	43.18	NA	NA	NA	403.03		0.6	*
2Q16		4/5/2016	NE	42.33	NA	NA	NA	403.88		0.0	*
3Q16		7/6/2016	NE	41.62	NA	NA	NA	404.59		0.0	*
4Q16		10/5/2016	NE	40.63	NA	NA	NA	405.58		0.0	*
P-84C											
1Q14	446.13	2/13/2014	NE	44.80	NA	NA	NA	401.33	352.08 - 350.08 (94.05 - 96.05)	0.0	*
2Q14		4/4/2014	NE	49.46	NA	NA	NA	396.67		0.7	*
3Q14		7/3/2014	NE	45.63	NA	NA	NA	400.50		0.0	*
4Q14		10/3/2014	NE	45.03	NA	NA	NA	401.10		1.1	*
1Q15	446.22	1/12/2015	NE	44.69	NA	NA	NA	401.53	352.17 - 350.17 (94.05 - 96.05)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.84		0.2	*
3Q15		7/7/2015	NE	44.93	NA	NA	NA	401.29		0.0	*
4Q15		10/1/2015	NE	43.99	NA	NA	NA	402.23		0.0	*
1Q16		1/5/2016	NE	43.49	NA	NA	NA	402.73		0.0	*
2Q16		4/5/2016	NE	42.28	NA	NA	NA	403.94		0.0	*
3Q16		7/6/2016	NE	41.61	NA	NA	NA	404.61		0.0	*
4Q16		10/5/2016	NE	40.66	NA	NA	NA	405.56		7.5	*
P-84D											
1Q14	446.14	2/13/2014	NE	44.80	NA	NA	NA	401.34	324.99 - 322.99 (121.15 - 123.15)	0.0	*
2Q14		4/4/2014	NE	49.46	NA	NA	NA	396.68		0.0	*
3Q14		7/3/2014	NE	45.62	NA	NA	NA	400.52		0.0	*
4Q14		10/3/2014	NE	45.02	NA	NA	NA	401.12		0.0	*
1Q15	446.24	1/12/2015	NE	44.70	NA	NA	NA	401.54	325.09 - 323.09 (121.15 - 123.15)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.86		0.2	*
3Q15		7/7/2015	NE	44.92	NA	NA	NA	401.32		0.0	*
4Q15		10/1/2015	NE	43.97	NA	NA	NA	402.27		0.0	*
1Q16		1/5/2016	NE	43.51	NA	NA	NA	402.73		0.6	*
2Q16		4/5/2016	NE	42.26	NA	NA	NA	403.98		0.0	*
3Q16		7/6/2016	NE	41.63	NA	NA	NA	404.61		0.0	*
4Q16		10/5/2016	NE	40.65	NA	NA	NA	405.59		6.0	*
P-88A											
1Q14	443.12	2/11/2014	NE	36.13	NA	NA	NA	406.99	404.72 - 389.72 (38.40 - 53.40)	0.2	*
2Q14		4/4/2014	NE	37.98	NA	NA	NA	405.14		0.1	*
3Q14		7/3/2014	NE	36.62	NA	NA	NA	406.50		0.0	*
4Q14		10/3/2014	NE	36.04	NA	NA	NA	407.08		0.1	*
1Q15	443.09	1/9/2015	NE	35.54	NA	NA	NA	407.55	404.69 - 389.69 (38.40 - 53.40)	0.0	*
2Q15		4/3/2015	NE	36.41	NA	NA	NA	406.68		0.0	*
3Q15		7/7/2015	NE	35.93	NA	NA	NA	407.16		0.0	*
4Q15		10/2/2015	NE	34.26	NA	NA	NA	408.83		0.2	*
1Q16		1/5/2016	NE	34.35	NA	NA	NA	408.74		0.0	*
2Q16		4/5/2016	NE	33.21	NA	NA	NA	409.88		0.2	*
3Q16		7/7/2016	NE	32.80	NA	NA	NA	410.29		0.0	*
4Q16		10/5/2016	NE	31.75	NA	NA	NA	411.34		0.0	*
P-88B											
1Q14	443.17	2/11/2014	NE	36.19	NA	NA	NA	406.98	371.17 - 369.17 (72.00 - 74.00)	0.3	*
2Q14		4/4/2014	NE	38.04	NA	NA	NA	405.13		0.5	*
3Q14		7/3/2014	NE	36.58	NA	NA	NA	406.59		0.0	*
4Q14		10/3/2014	NE	36.09	NA	NA	NA	407.08		0.1	*
1Q15	443.16	1/9/2015	NE	35.61	NA	NA	NA	407.55	371.16 - 369.16 (72.00 - 74.00)	0.0	*
2Q15		4/3/2015	NE	36.48	NA	NA	NA	406.68		0.0	*
3Q15		7/7/2015	NE	35.94	NA	NA	NA	407.22		0.0	*
4Q15		10/2/2015	NE	34.50	NA	NA	NA	408.66		0.4	*
1Q16		1/5/2016	NE	34.41	NA	NA	NA	408.75		0.0	*
2Q16		4/5/2016	NE	33.43	NA	NA	NA	409.73		0.3	*
3Q16		7/7/2016	NE	32.92	NA	NA	NA	410.24		0.0	*
4Q16		10/5/2016	NE	31.82	NA	NA	NA	411.34		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-88C											
1Q14	443.16	2/11/2014	NE	36.45	NA	NA	NA	406.71	350.86 - 348.86 (92.30 - 94.30)	0.2	*
2Q14		4/4/2014	NE	41.00	NA	NA	NA	402.16		0.2	*
3Q14		7/3/2014	NE	36.87	NA	NA	NA	406.29		0.0	*
4Q14		10/3/2014	NE	35.74	NA	NA	NA	407.42		0.3	*
1Q15	443.13	1/9/2015	NE	35.59	NA	NA	NA	407.54	350.83 - 348.83 (92.30 - 94.30)	0.0	*
2Q15		4/3/2015	NE	36.42	NA	NA	NA	406.71		3.2	*
3Q15		7/7/2015	NE	36.21	NA	NA	NA	406.92		0.0	*
4Q15		10/2/2015	NE	34.28	NA	NA	NA	408.85		2.7	*
1Q16		1/5/2016	NE	34.39	NA	NA	NA	408.74		0.0	*
2Q16		4/5/2016	NE	33.20	NA	NA	NA	409.93		0.2	*
3Q16		7/7/2016	NE	32.87	NA	NA	NA	410.26		0.0	*
4Q16		10/5/2016	NE	31.75	NA	NA	NA	411.38		0.0	*
P-88D											
1Q14	443.23	2/11/2014	NE	36.59	NA	NA	NA	406.64	329.53 - 327.53 (113.70 - 115.70)	1.7	*
2Q14		4/4/2014	NE	41.45	NA	NA	NA	401.78		0.1	*
3Q14		7/3/2014	NE	36.95	NA	NA	NA	406.28		0.6	*
4Q14		10/3/2014	NE	36.43	NA	NA	NA	406.80		0.0	*
1Q15	443.20	1/9/2015	NE	35.78	NA	NA	NA	407.42	329.50 - 327.50 (113.70 - 115.70)	0.0	*
2Q15		4/3/2015	NE	36.57	NA	NA	NA	406.63		0.0	*
3Q15		7/7/2015	NE	36.30	NA	NA	NA	406.90		0.0	*
4Q15		10/2/2015	NE	34.85	NA	NA	NA	408.35		1.4	*
1Q16		1/5/2016	NE	34.61	NA	NA	NA	408.59		0.2	*
2Q16		4/5/2016	NE	33.82	NA	NA	NA	409.38		0.0	*
3Q16		7/7/2016	NE	32.98	NA	NA	NA	410.22		0.0	*
4Q16		10/5/2016	NE	31.97	NA	NA	NA	411.23		0.0	*
P-89B											
1Q14	447.35	2/12/2014	NE	44.24	NA	NA	NA	403.11	369.99 - 367.99 (77.36 - 79.36)	0.2	*
2Q14		4/1/2014	NE	45.09	NA	NA	NA	402.26		0.0	*
3Q14		7/1/2014	NE	44.59	NA	NA	NA	402.76		0.0	*
4Q14		10/2/2014	NE	44.19	NA	NA	NA	403.16		0.0	*
1Q15	447.44	1/9/2015	NE	43.31	NA	NA	NA	404.13	370.08 - 368.08 (77.36 - 79.36)	0.0	*
2Q15		4/3/2015	NE	44.10	NA	NA	NA	403.34		0.0	*
3Q15		7/7/2015	NE	43.36	NA	NA	NA	404.08		0.0	*
4Q15		10/1/2015	NE	42.17	NA	NA	NA	405.27		0.0	*
1Q16		1/5/2016	NE	42.16	NA	NA	NA	405.28		0.0	*
2Q16		4/4/2016	NE	40.69	NA	NA	NA	406.75		0.0	*
3Q16		7/5/2016	NE	40.72	NA	NA	NA	406.72		0.1	*
4Q16		10/5/2016	NE	38.84	NA	NA	NA	408.60		0.2	*
P-89C											
1Q14	447.68	2/12/2014	NE	44.58	NA	NA	NA	403.10	350.05 - 348.05 (97.63 - 99.63)	186.4	*
2Q14		4/1/2014	NE	45.47	NA	NA	NA	402.21		0.0	*
3Q14		7/1/2014	NE	44.94	NA	NA	NA	402.74		0.0	*
4Q14		10/2/2014	NE	44.53	NA	NA	NA	403.15		0.0	*
1Q15	447.76	1/9/2015	NE	43.68	NA	NA	NA	404.08	350.13 - 348.13 (97.63 - 99.63)	0.7	*
2Q15		4/3/2015	NE	44.45	NA	NA	NA	403.31		0.0	*
3Q15		7/7/2015	NE	43.73	NA	NA	NA	404.03		0.0	*
4Q15		10/1/2015	NE	42.54	NA	NA	NA	405.22		0.1	*
1Q16		1/5/2016	NE	42.52	NA	NA	NA	405.24		0.0	*
2Q16		4/4/2016	NE	41.04	NA	NA	NA	406.72		0.0	*
3Q16		7/5/2016	NE	41.05	NA	NA	NA	406.71		0.1	*
4Q16		10/5/2016	NE	39.63	NA	NA	NA	408.13		0.2	*
P-89D											
1Q14	447.54	2/12/2014	NE	44.68	NA	NA	NA	402.86	307.20 - 305.20 (140.34 - 142.34)	7.4	*
2Q14		4/1/2014	NE	45.45	NA	NA	NA	402.09		0.0	*
3Q14		7/1/2014	NE	44.92	NA	NA	NA	402.62		0.0	*
4Q14		10/2/2014	NE	44.55	NA	NA	NA	402.99		0.0	*
1Q15	447.63	1/9/2015	NE	43.67	NA	NA	NA	403.96	307.29 - 305.29 (140.34 - 142.34)	0.0	*
2Q15		4/3/2015	NE	44.32	NA	NA	NA	403.31		0.0	*
3Q15		7/7/2015	NE	43.73	NA	NA	NA	403.90		0.0	*
4Q15		10/1/2015	NE	42.56	NA	NA	NA	405.07		0.1	*
1Q16		1/5/2016	NE	42.56	NA	NA	NA	405.07		0.0	*
2Q16		4/4/2016	NE	40.94	NA	NA	NA	406.69		0.1	*
3Q16		7/5/2016	NE	41.08	NA	NA	NA	406.55		0.1	*
4Q16		10/5/2016	NE	39.18	NA	NA	NA	408.45		0.2	*
P-91A											
1Q14	447.19	2/12/2014	48.21	54.71	392.48	398.98	6.50	397.68	395.68 - 380.68 (51.51 - 66.51)	178.7	*
2Q14		4/4/2014	50.20	55.10	392.09	396.99	4.90	396.01		15.9	*
3Q14		7/2/2014	48.74	52.68	394.51	398.45	3.94	397.66		295.2	*
4Q14		10/2/2014	48.10	51.99	395.20	399.09	3.89	398.31		22.9	*
1Q15	447.24	1/9/2015	47.98	51.84	395.40	399.26	3.86	398.49	395.72 - 380.72 (51.51 - 66.51)	15.0	*
2Q15		4/3/2015	50.02	50.12	397.12	397.22	0.10	397.20		45.5	*
3Q15		7/7/2015	49.55	49.59	397.65	397.69	0.04	397.68		17.6	*
4Q15		10/2/2015	47.95	47.97	399.27	399.29	0.02	399.29		28.2	*
1Q16		1/5/2016	47.78	47.82	399.42	399.46	0.04	399.45		42.3	*
2Q16		4/4/2016	46.49	46.53	400.71	400.75	0.04	400.74		4.1	*
3Q16		7/7/2016	NE	44.12	NA	NA	NA	403.12		13.1	*
4Q16		10/4/2016	44.59	44.61	402.63	402.65	0.02	402.65		4.7	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-91B											
1Q14	447.26	2/12/2014	NE	49.61	NA	NA	NA	397.65	372.57 - 370.57 (74.69 - 76.69)	9.5	*
2Q14		4/4/2014	NE	51.19	NA	NA	NA	396.07		0.4	*
3Q14		7/2/2014	NE	49.64	NA	NA	NA	397.62		17.5	*
4Q14		10/2/2014	NE	48.96	NA	NA	NA	398.30		29.1	*
1Q15	447.28	1/9/2015	NE	48.86	NA	NA	NA	398.42	372.59 - 370.59 (74.69 - 76.69)	1.9	*
2Q15		4/3/2015	NE	50.08	NA	NA	NA	397.20		2.1	*
3Q15		7/7/2015	NE	49.62	NA	NA	NA	397.66		2.2	*
4Q15		10/2/2015	NE	48.03	NA	NA	NA	399.25		10.1	*
1Q16		1/5/2016	NE	47.88	NA	NA	NA	399.40		21.9	*
2Q16		4/4/2016	NE	46.67	NA	NA	NA	400.61		1.2	*
3Q16		7/7/2016	NE	46.56	NA	NA	NA	400.72		0.2	*
4Q16		10/4/2016	NE	44.72	NA	NA	NA	402.56		0.7	*
P-91C											
1Q14	447.02	2/12/2014	NE	49.36	NA	NA	NA	397.66	352.29 - 350.29 (94.73 - 96.73)	2.7	*
2Q14		4/4/2014	NE	51.00	NA	NA	NA	396.02		0.2	*
3Q14		7/2/2014	NE	49.39	NA	NA	NA	397.63		0.3	*
4Q14		10/2/2014	NE	48.71	NA	NA	NA	398.31		0.1	*
1Q15	447.07	1/9/2015	NE	48.61	NA	NA	NA	398.46	352.34 - 350.34 (94.73 - 96.73)	0.1	*
2Q15		4/3/2015	NE	49.88	NA	NA	NA	397.19		0.0	*
3Q15		7/7/2015	NE	49.39	NA	NA	NA	397.68		0.0	*
4Q15		10/2/2015	NE	47.79	NA	NA	NA	399.28		0.2	*
1Q16		1/5/2016	NE	47.63	NA	NA	NA	399.44		0.4	*
2Q16		4/4/2016	NE	46.39	NA	NA	NA	400.68		0.7	*
3Q16		7/7/2016	NE	46.32	NA	NA	NA	400.75		0.0	*
4Q16		10/4/2016	NE	44.47	NA	NA	NA	402.60		0.4	*
P-91D											
1Q14	447.02	2/12/2014	NE	49.35	NA	NA	NA	397.67	278.70 - 276.70 (168.32 - 170.32)	6.2	*
2Q14		4/4/2014	NE	51.02	NA	NA	NA	396.00		6.9	*
3Q14		7/2/2014	NE	49.37	NA	NA	NA	397.65		0.4	*
4Q14		10/2/2014	NE	48.71	NA	NA	NA	398.31		0.0	*
1Q15	447.06	1/9/2015	NE	48.60	NA	NA	NA	398.46	278.74 - 276.74 (168.32 - 170.32)	0.1	*
2Q15		4/3/2015	NE	49.87	NA	NA	NA	397.19		1.0	*
3Q15		7/7/2015	NE	49.39	NA	NA	NA	397.67		0.0	*
4Q15		10/2/2015	NE	47.78	NA	NA	NA	399.28		0.5	*
1Q16		1/5/2016	NE	47.64	NA	NA	NA	399.42		0.6	*
2Q16		4/4/2016	NE	44.01	NA	NA	NA	403.05		2.0	*
3Q16		7/7/2016	NE	46.31	NA	NA	NA	400.75		0.0	*
4Q16		10/4/2016	NE	44.46	NA	NA	NA	402.60		0.3	*
P-92A											
1Q14	446.12	2/12/2014	47.20	47.28	398.84	398.92	0.08	398.90	398.55 - 383.55 (47.57 - 62.57)	153.9	*
2Q14		4/4/2014	49.06	49.16	396.96	397.06	0.10	397.04		0.9	
3Q14		7/2/2014	47.55	47.57	398.55	398.57	0.02	398.57		17.5	*
4Q14		10/2/2014	46.73	46.76	399.36	399.39	0.03	399.38		130.2	*
1Q15	446.24	1/9/2015	46.31	46.35	399.89	399.93	0.04	399.92	398.67 - 383.67 (47.57 - 62.57)	34.9	*
2Q15		4/1/2015	48.06	48.08	398.16	398.18	0.02	398.18		12.8	
3Q15		7/7/2015	NE	48.05	NA	NA	NA	398.19		72.5	
4Q15		10/1/2015	45.90	45.91	400.33	400.34	0.01	400.34		63.4	*
1Q16		1/5/2016	45.91	45.93	400.31	400.33	0.02	400.33		77.1	*
2Q16		4/4/2016	44.17	44.21	402.03	402.07	0.04	402.06		72.9	*
3Q16		7/6/2016	NE	44.12	NA	NA	NA	402.12		16.0	*
4Q16		10/4/2016	42.63	42.71	403.53	403.61	0.08	403.59		11.5	*
P-92B											
1Q14	446.07	2/12/2014	NE	47.12	NA	NA	NA	398.95	372.42 - 370.42 (73.65 - 75.65)	1.7	*
2Q14		4/4/2014	NE	49.03	NA	NA	NA	397.04		0.2	*
3Q14		7/2/2014	NE	47.52	NA	NA	NA	398.55		0.0	*
4Q14		10/2/2014	NE	46.70	NA	NA	NA	399.37		0.6	*
1Q15	446.18	1/9/2015	NE	46.28	NA	NA	NA	399.90	372.53 - 370.53 (73.65 - 75.65)	0.0	*
2Q15		4/1/2015	NE	48.03	NA	NA	NA	398.15		0.0	*
3Q15		7/7/2015	NE	48.02	NA	NA	NA	398.16		0.5	*
4Q15		10/1/2015	NE	45.89	NA	NA	NA	400.29		0.6	*
1Q16		1/5/2016	NE	45.88	NA	NA	NA	400.30		0.0	*
2Q16		4/4/2016	NE	44.17	NA	NA	NA	402.01		0.3	*
3Q16		7/6/2016	NE	44.10	NA	NA	NA	402.08		0.1	*
4Q16		10/4/2016	NE	42.53	NA	NA	NA	403.65		0.0	*
P-92C											
1Q14	445.98	2/12/2014	NE	47.29	NA	NA	NA	398.69	352.54 - 350.54 (93.44 - 95.44)	0.2	*
2Q14		4/4/2014	NE	48.80	NA	NA	NA	397.18		0.4	*
3Q14		7/2/2014	NM	NM	NA	NA	NA	NA		NM	Well damaged
4Q14		10/2/2014	NM	NM	NA	NA	NA	NA		NM	Well damaged
1Q15	446.17	1/9/2015	NE	46.25	NA	NA	NA	399.92	353.21 - 348.21 (92.96 - 97.96)	4.4	*Replaced during 4Q14
2Q15		4/1/2015	NE	48.02	NA	NA	NA	398.15		2.9	*
3Q15		7/7/2015	NE	48.02	NA	NA	NA	398.15		0.7	*
4Q15		10/1/2015	NE	45.90	NA	NA	NA	400.27		44.0	*
1Q16		1/5/2016	NE	45.88	NA	NA	NA	400.29		9.1	*
2Q16		4/4/2016	NE	44.15	NA	NA	NA	402.02		2.1	*
3Q16		7/6/2016	NE	44.10	NA	NA	NA	402.07		11.3	*
4Q16		10/4/2016	NE	42.52	NA	NA	NA	403.65		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-92D											
1Q14	445.90	2/12/2014	NE	47.07	NA	NA	NA	398.83	304.90 - 302.90 (141.00 - 143.00)	0.4	*
2Q14		4/4/2014	NE	48.94	NA	NA	NA	396.96		0.3	*
3Q14		7/2/2014	NE	47.42	NA	NA	NA	398.48		0.0	*
4Q14		10/2/2014	NE	46.62	NA	NA	NA	399.28		0.2	*
1Q15	446.00	1/9/2015	NE	46.10	NA	NA	NA	399.90	305.00 - 303.00 (141.00 - 143.00)	0.4	*
2Q15		4/1/2015	NE	47.91	NA	NA	NA	398.09		0.0	*
3Q15		7/7/2015	NE	47.88	NA	NA	NA	398.12		2.2	*
4Q15		10/1/2015	NE	45.78	NA	NA	NA	400.22		0.0	*
1Q16		1/5/2016	NE	45.77	NA	NA	NA	400.23		0.0	*
2Q16		4/4/2016	NE	44.01	NA	NA	NA	401.99		0.3	*
3Q16		7/6/2016	NE	43.99	NA	NA	NA	402.01		0.3	*
4Q16		10/4/2016	NE	42.38	NA	NA	NA	403.62		0.0	*
P-93A											
1Q14	446.58	2/12/2014	NE	46.53	NA	NA	NA	400.04	398.41 - 383.41 (48.17 - 63.17)	3.6	*
2Q14		4/4/2014	NE	47.28	NA	NA	NA	399.29		1.3	*
3Q14		7/1/2014	NE	46.10	NA	NA	NA	400.48		0.0	*
4Q14		10/3/2014	NE	45.09	NA	NA	NA	401.48		2.2	*
1Q15	445.12	1/8/2015	NE	46.84	NA	NA	NA	398.28	402.05 - 392.05 (43.07 - 53.07)	0.0	Replaced during 4Q14
2Q15		4/1/2015	NE	47.05	NA	NA	NA	398.07		0.0	
3Q15		7/9/2015	NE	46.39	NA	NA	NA	398.73		0.0	
4Q15		10/1/2015	NE	43.64	NA	NA	NA	401.48		0.0	
1Q16		1/4/2016	NE	43.94	NA	NA	NA	401.18		0.0	
2Q16		4/4/2016	NE	43.08	NA	NA	NA	402.04		1.0	
3Q16		7/5/2016	NE	42.42	NA	NA	NA	402.70		3.7	*
4Q16		10/3/2016	NE	41.58	NA	NA	NA	403.54		1.9	*
P-93B											
1Q14	446.46	2/12/2014	NE	46.58	NA	NA	NA	399.88	371.86 - 369.86 (74.60 - 76.60)	70.0	*
2Q14		4/4/2014	NE	47.33	NA	NA	NA	399.13		0.5	*
3Q14		7/1/2014	NE	46.15	NA	NA	NA	400.31		0.0	*
4Q14		10/3/2014	NE	45.13	NA	NA	NA	401.33		1.0	*
1Q15	446.52	1/9/2015	NE	47.10	NA	NA	NA	399.42	371.92 - 369.92 (74.60 - 76.60)	0.1	*
2Q15		4/1/2015	NE	48.44	NA	NA	NA	398.08		51.9	*
3Q15		7/9/2015	NE	47.76	NA	NA	NA	398.76		0.1	*
4Q15		10/1/2015	NE	45.18	NA	NA	NA	401.34		0.1	*
1Q16		1/4/2016	NE	45.30	NA	NA	NA	401.22		18.9	*
2Q16		4/4/2016	NE	44.54	NA	NA	NA	401.98		2.3	*
3Q16		7/5/2016	NE	43.75	NA	NA	NA	402.77		0.5	*
4Q16		10/3/2016	NE	42.93	NA	NA	NA	403.59		0.0	*
P-93C											
1Q14	446.51	2/12/2014	NE	46.44	NA	NA	NA	400.07	352.26 - 350.26 (94.26 - 96.26)	1.3	*
2Q14		4/4/2014	NE	47.20	NA	NA	NA	399.31		0.0	*
3Q14		7/1/2014	NE	46.03	NA	NA	NA	400.48		0.0	*
4Q14		10/3/2014	NE	45.01	NA	NA	NA	401.50		0.4	*
1Q15	446.28	1/8/2015	NE	46.36	NA	NA	NA	399.92	353.81 - 348.81 (92.47 - 97.47)	2.3	*Replaced during 4Q14
2Q15		4/1/2015	NE	48.24	NA	NA	NA	398.04		12.8	*
3Q15		7/9/2015	NE	47.55	NA	NA	NA	398.73		0.1	*
4Q15		10/1/2015	NE	44.83	NA	NA	NA	401.45		64.3	*
1Q16		1/4/2016	NE	45.04	NA	NA	NA	401.24		0.1	*
2Q16		4/4/2016	NE	44.20	NA	NA	NA	402.08		0.2	*
3Q16		7/5/2016	NE	43.57	NA	NA	NA	402.71		0.6	*
4Q16		10/3/2016	NE	41.73	NA	NA	NA	404.55		0.0	*
P-93D											
1Q14	446.89	2/12/2014	NE	46.62	NA	NA	NA	400.27	321.14 - 319.14 (125.75 - 127.75)	4.1	*
2Q14		4/4/2014	NE	47.36	NA	NA	NA	399.53		3.1	*
3Q14		7/1/2014	NE	46.17	NA	NA	NA	400.72		0.0	*
4Q14		10/3/2014	NE	45.16	NA	NA	NA	401.73		14.4	*
1Q15	446.73	1/8/2015	NE	46.82	NA	NA	NA	399.91	320.98 - 318.98 (125.75 - 127.75)	10.8	*
2Q15		4/1/2015	NE	48.64	NA	NA	NA	398.09		13.7	*
3Q15		7/9/2015	NE	47.96	NA	NA	NA	398.77		0.0	*
4Q15		10/1/2015	NE	45.27	NA	NA	NA	401.46		0.1	*
1Q16		1/4/2016	NE	45.45	NA	NA	NA	401.28		0.0	*
2Q16		4/4/2016	NE	44.61	NA	NA	NA	402.12		0.0	*
3Q16		7/5/2016	NE	43.97	NA	NA	NA	402.76		1.1	*
4Q16		10/3/2016	NE	43.12	NA	NA	NA	403.61		0.0	*
P-94											
1Q14	444.65	2/11/2014	NE	40.93	NA	NA	NA	403.72	398.80 - 383.80 (45.85 - 60.85)	0.4	*
2Q14		4/1/2014	NE	41.85	NA	NA	NA	402.80		0.0	*
3Q14		7/1/2014	NE	41.46	NA	NA	NA	403.19		0.0	*
4Q14		10/1/2014	NE	41.10	NA	NA	NA	403.55		0.0	*
1Q15	445.14	1/6/2015	NE	41.09	NA	NA	NA	404.05	399.29 - 384.29 (45.85 - 60.85)	0.0	*
2Q15		4/6/2015	NE	41.00	NA	NA	NA	404.14		0.1	*
3Q15		7/6/2015	NE	39.97	NA	NA	NA	405.17		0.2	*
4Q15		10/1/2015	NE	39.08	NA	NA	NA	406.06		0.0	*
1Q16		1/5/2016	NE	38.98	NA	NA	NA	406.16		0.0	*
2Q16		4/4/2016	NE	37.14	NA	NA	NA	408.00		0.0	*
3Q16		7/6/2016	NE	37.06	NA	NA	NA	408.08		1.1	*
4Q16		10/3/2016	NE	34.80	NA	NA	NA	410.34		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-95											
1Q14	443.44	2/10/2014	NE	34.28	NA	NA	NA	409.16	406.92 - 391.92 (36.52 - 51.52)	1.2	*
2Q14		4/4/2014	NE	36.19	NA	NA	NA	407.25		0.0	*
3Q14		7/3/2014	NE	34.73	NA	NA	NA	408.71		0.0	*
4Q14		10/3/2014	NE	34.39	NA	NA	NA	409.05		0.0	*
1Q15	443.42	1/12/2015	NE	34.16	NA	NA	NA	409.26	406.90 - 391.90 (36.52 - 51.52)	0.2	*
2Q15		4/3/2015	NE	34.52	NA	NA	NA	408.90		0.0	*
3Q15		7/7/2015	NE	33.83	NA	NA	NA	409.59		0.0	*
4Q15		10/2/2015	NE	32.55	NA	NA	NA	410.87		0.3	*
1Q16		1/5/2016	NE	32.50	NA	NA	NA	410.92		0.2	*
2Q16		4/5/2016	NE	31.37	NA	NA	NA	412.05		0.0	*
3Q16		7/7/2016	NE	30.95	NA	NA	NA	412.47		0.0	*
4Q16		10/5/2016	NE	29.72	NA	NA	NA	413.70		0.1	*
P-102											
1Q14	444.91	2/11/2014	NE	37.81	NA	NA	NA	407.10	402.16 - 382.16 (42.75 - 62.75)	2.9	*
2Q14		4/4/2014	NE	38.55	NA	NA	NA	406.36		7.5	*
3Q14		7/3/2014	NE	38.25	NA	NA	NA	406.66		0.0	*
4Q14		10/3/2014	NE	37.87	NA	NA	NA	407.04		6.8	*
1Q15	444.97	1/9/2015	NE	37.20	NA	NA	NA	407.77	402.22 - 382.22 (42.75 - 62.75)	0.0	*
2Q15		4/3/2015	NE	37.85	NA	NA	NA	407.12		0.1	*
3Q15		7/7/2015	NE	37.02	NA	NA	NA	407.95		0.2	*
4Q15		10/2/2015	NE	35.85	NA	NA	NA	409.12		16.6	*
1Q16		1/5/2016	NE	35.79	NA	NA	NA	409.18		0.0	*
2Q16		4/5/2016	NE	34.74	NA	NA	NA	410.23		3.6	*
3Q16		7/8/2016	NE	34.54	NA	NA	NA	410.43		17.8	*
4Q16		10/5/2016	NE	33.01	NA	NA	NA	411.96		105.2	*
P-114 R (P-114)											
1Q14	432.40	2/11/2014	NE	32.11	NA	NA	NA	400.29	399.73 - 379.73 (32.67 - 52.67)	0.5	*
2Q14		4/4/2014	NM	NM	NA	NA	NA	NA		NM	
3Q14		7/2/2014	NE	30.87	NA	NA	NA	401.54		3.5	*
4Q14		10/3/2014	NE	29.83	NA	NA	NA	402.58		0.4	*
1Q15	432.45	1/12/2015	NM	NM	NA	NA	NA	NA	399.78 - 379.78 (32.67 - 52.67)	NM	Well damaged
2Q15		4/3/2015	NM	NM	NA	NA	NA	NA		NM	Well damaged
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Well damaged
4Q15	429.26	10/2/2015	NE	28.15	NA	NA	NA	401.11	406.25 - 396.25 (23.01 - 33.01)	71.9	Replaced during 3Q15
1Q16		1/6/2016	NE	25.73	NA	NA	NA	403.53		41.7	
2Q16		4/5/2016	NE	25.64	NA	NA	NA	403.62		28.1	
3Q16		7/8/2016	NE	24.95	NA	NA	NA	404.31		0.0	
4Q16		10/4/2016	NE	23.74	NA	NA	NA	405.52		51.0	
P-115											
1Q14	433.31	2/11/2014	NE	33.07	NA	NA	NA	400.24	401.01 - 381.01 (32.30 - 52.30)	0.6	
2Q14		4/7/2014	NE	33.10	NA	NA	NA	400.21		57.2	
3Q14		7/2/2014	NE	31.61	NA	NA	NA	401.70		0.9	*
4Q14		10/3/2014	NE	30.52	NA	NA	NA	402.79		0.2	*
1Q15	433.36	1/12/2015	NE	32.17	NA	NA	NA	401.19	401.06 - 381.06 (32.30 - 52.30)	0.0	*
2Q15		4/3/2015	NE	33.81	NA	NA	NA	399.55		0.3	
3Q15		7/8/2015	NE	30.94	NA	NA	NA	402.42		4.8	*
4Q15		10/2/2015	NE	30.13	NA	NA	NA	403.23		0.6	*
1Q16		1/5/2016	NE	29.61	NA	NA	NA	403.75		0.0	*
2Q16		4/5/2016	NE	29.64	NA	NA	NA	403.72		0.0	*
3Q16		7/8/2016	NE	28.87	NA	NA	NA	404.49		0.0	*
4Q16		10/4/2016	NE	27.61	NA	NA	NA	405.75		0.2	*
P-116											
1Q14	436.45	2/11/2014	NE	36.50	NA	NA	NA	399.95	399.01 - 379.01 (37.44 - 57.44)	0.9	*
2Q14		4/4/2014	NE	36.91	NA	NA	NA	399.54		0.1	*
3Q14		7/2/2014	NE	34.94	NA	NA	NA	401.51		0.8	*
4Q14		10/3/2014	NE	33.85	NA	NA	NA	402.60		0.2	*
1Q15	436.63	1/12/2015	NE	35.54	NA	NA	NA	401.09	399.19 - 379.19 (37.44 - 57.44)	0.0	*
2Q15		4/3/2015	NE	37.15	NA	NA	NA	399.48		2.3	*
3Q15		7/8/2015	NE	34.11	NA	NA	NA	402.52		1.6	*
4Q15		10/2/2015	NE	33.45	NA	NA	NA	403.18		1.3	*
1Q16		1/5/2016	NE	32.85	NA	NA	NA	403.78		0.0	*
2Q16		4/5/2016	NE	33.01	NA	NA	NA	403.62		0.0	*
3Q16		7/8/2016	NE	32.23	NA	NA	NA	404.40		0.0	*
4Q16		10/4/2016	NE	30.96	NA	NA	NA	405.67		0.1	*
P-117											
1Q14	432.67	2/11/2014	NE	32.77	NA	NA	NA	399.90	399.74 - 379.74 (32.93 - 52.93)	0.6	*
2Q14		4/4/2014	NE	33.14	NA	NA	NA	399.53		0.0	
3Q14		7/2/2014	NE	31.10	NA	NA	NA	401.57		1.0	*
4Q14		10/3/2014	NE	30.03	NA	NA	NA	402.64		0.0	*
1Q15	432.71	1/12/2015	NE	35.54	NA	NA	NA	397.17	399.78 - 379.78 (32.93 - 52.93)	0.0	
2Q15		4/3/2015	NE	33.39	NA	NA	NA	399.32		2.8	
3Q15		7/8/2015	NE	30.16	NA	NA	NA	402.55		1.6	*
4Q15		10/2/2015	NE	29.64	NA	NA	NA	403.07		4.7	*
1Q16		1/6/2016	NE	28.77	NA	NA	NA	403.94		0.0	*
2Q16		4/5/2016	NE	29.18	NA	NA	NA	403.53		0.0	*
3Q16		7/8/2016	NE	28.39	NA	NA	NA	404.32		0.0	*
4Q16		10/4/2016	NE	27.13	NA	NA	NA	405.58		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-118											
1Q14	431.32	2/11/2014	NE	31.91	NA	NA	NA	399.41	400.20 - 384.27 (31.12 - 47.05)	5.3	
2Q14		4/4/2014	NE	32.11	NA	NA	NA	399.21		0.0	
3Q14		7/2/2014	NE	29.78	NA	NA	NA	401.54		0.8	*
4Q14		10/3/2014	NE	28.71	NA	NA	NA	402.61		0.5	*
1Q15	431.31	1/12/2015	NE	30.73	NA	NA	NA	400.58	400.19 - 384.26 (31.12 - 47.05)	0.0	*
2Q15		4/3/2015	NE	32.22	NA	NA	NA	399.09		0.0	
3Q15		7/8/2015	NE	28.19	NA	NA	NA	403.12		1.5	*
4Q15		10/2/2015	NE	28.59	NA	NA	NA	402.72		0.3	*
1Q16		1/5/2016	NE	27.15	NA	NA	NA	404.16		0.0	*
2Q16		4/5/2016	NE	28.17	NA	NA	NA	403.14		0.0	*
3Q16		7/8/2016	NE	27.12	NA	NA	NA	404.19		0.7	*
4Q16		10/4/2016	NE	25.78	NA	NA	NA	405.53		0.1	*
P-119											
1Q14	431.92	2/11/2014	NE	31.03	NA	NA	NA	400.89	401.25 - 385.32 (30.67 - 46.60)	1.0	
2Q14		4/4/2014	NE	31.55	NA	NA	NA	400.37		0.0	
3Q14		7/2/2014	NE	30.06	NA	NA	NA	401.86		1.1	*
4Q14		10/3/2014	NE	29.14	NA	NA	NA	402.78		0.0	*
1Q15	431.90	1/12/2015	NE	30.61	NA	NA	NA	401.29	401.23 - 385.30 (30.67 - 46.60)	0.0	*
2Q15		4/3/2015	NE	32.15	NA	NA	NA	399.75		0.0	
3Q15		7/8/2015	NE	30.41	NA	NA	NA	401.49		0.2	*
4Q15		10/2/2015	NE	28.77	NA	NA	NA	403.13		0.0	*
1Q16		1/5/2016	NE	28.52	NA	NA	NA	403.38		0.0	*
2Q16		4/5/2016	NE	28.28	NA	NA	NA	403.62		0.0	*
3Q16		7/8/2016	NE	27.61	NA	NA	NA	404.29		0.0	*
4Q16		10/4/2016	NE	26.32	NA	NA	NA	405.58		0.1	*
P-120											
1Q14	432.78	2/11/2014	NE	31.38	NA	NA	NA	401.40	401.40 - 385.47 (31.38 - 47.31)	1.0	
2Q14		4/4/2014	NE	32.01	NA	NA	NA	400.77		0.0	
3Q14		7/2/2014	NE	30.11	NA	NA	NA	402.67		1.0	*
4Q14		10/3/2014	NE	29.22	NA	NA	NA	403.56		0.9	*
1Q15	432.82	1/12/2015	NE	30.70	NA	NA	NA	402.12	401.44 - 385.51 (31.38 - 47.31)	0.0	*
2Q15		4/3/2015	NE	32.26	NA	NA	NA	400.56		0.0	
3Q15		7/8/2015	NE	29.79	NA	NA	NA	403.03		0.2	*
4Q15		10/2/2015	NE	28.85	NA	NA	NA	403.97		0.0	*
1Q16		1/5/2016	NE	28.19	NA	NA	NA	404.63		0.0	*
2Q16		4/5/2016	NE	28.30	NA	NA	NA	404.52		0.0	*
3Q16		7/8/2016	NE	27.59	NA	NA	NA	405.23		0.0	*
4Q16		10/4/2016	NE	26.24	NA	NA	NA	406.58		0.0	*
P-129											
1Q14	432.46	2/11/2014	NE	34.37	NA	NA	NA	398.09	400.49 - 384.56 (31.97 - 47.90)	1.6	
2Q14		4/4/2014	NE	34.27	NA	NA	NA	398.19		0.0	
3Q14		7/2/2014	NE	30.93	NA	NA	NA	401.53		0.7	*
4Q14		10/3/2014	NE	30.31	NA	NA	NA	402.15		0.0	*
1Q15	432.43	1/12/2015	NE	33.06	NA	NA	NA	399.37	400.46 - 384.53 (31.97 - 47.90)	0.0	
2Q15		4/3/2015	NE	34.38	NA	NA	NA	398.05		0.0	
3Q15		7/8/2015	NE	27.81	NA	NA	NA	404.62		0.0	*
4Q15		10/2/2015	NE	30.38	NA	NA	NA	402.05		0.0	*
1Q16		1/6/2016	NE	26.90	NA	NA	NA	405.53		0.0	*
2Q16		4/5/2016	NE	30.18	NA	NA	NA	402.25		0.0	*
3Q16		7/8/2016	NE	28.77	NA	NA	NA	403.66		0.0	*
4Q16		10/4/2016	NE	27.31	NA	NA	NA	405.12		0.4	*
ROST-3-MW											
1Q14	442.29	2/10/2014	NE	42.20	NA	NA	NA	400.09	404.48 - 394.48 (37.81 - 47.81)	2.6	
2Q14		4/1/2014	NE	42.68	NA	NA	NA	399.61		1.2	
3Q14		7/1/2014	NE	42.10	NA	NA	NA	400.19		0.1	
4Q14		10/1/2014	NE	41.16	NA	NA	NA	401.13		0.0	
1Q15		1/5/2015	NE	41.82	NA	NA	NA	400.47		167.7	
2Q15		4/2/2015	NE	43.23	NA	NA	NA	399.06		0.0	
3Q15		7/6/2015	NE	42.69	NA	NA	NA	399.60		5.7	
4Q15		10/1/2015	NE	40.45	NA	NA	NA	401.84		0.1	
1Q16		1/4/2016	NE	40.84	NA	NA	NA	401.45		1.2	
2Q16		4/4/2016	NE	39.64	NA	NA	NA	402.65		0.0	
3Q16		7/6/2016	NE	38.51	NA	NA	NA	403.78		191.0	
4Q16		10/3/2016	NE	38.20	NA	NA	NA	404.09		320.0	
ROST-4-PZ											
1Q14	442.13	2/10/2014	NE	40.97	NA	NA	NA	401.16	407.20 - 397.20 (34.93 - 44.93)	1.2	
2Q14		4/1/2014	NE	41.22	NA	NA	NA	400.91		0.3	
3Q14		7/1/2014	NE	41.42	NA	NA	NA	400.71		0.0	
4Q14		10/1/2014	NE	40.25	NA	NA	NA	401.88		4.4	
1Q15		1/5/2015	NE	40.80	NA	NA	NA	401.33		10.3	
2Q15		4/2/2015	NE	41.75	NA	NA	NA	400.38		0.0	
3Q15		7/6/2015	NE	41.86	NA	NA	NA	400.27		0.0	
4Q15		10/1/2015	NE	39.70	NA	NA	NA	402.43		0.6	
1Q16		1/4/2016	NE	40.10	NA	NA	NA	402.03		0.0	
2Q16		4/4/2016	NE	38.75	NA	NA	NA	403.38		0.0	
3Q16		7/5/2016	NE	37.98	NA	NA	NA	404.15		0.1	
4Q16		10/3/2016	NE	37.67	NA	NA	NA	404.46		0.5	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ(A)											
1Q14	442.11	2/10/2014	NE	41.29	NA	NA	NA	400.82	407.34 - 397.34 (34.77 - 44.77)	0.6	
2Q14		4/1/2014	NE	41.81	NA	NA	NA	400.30		0.4	
3Q14		7/1/2014	NE	39.69	NA	NA	NA	402.42		0.0	
4Q14		10/1/2014	NE	39.74	NA	NA	NA	402.37		0.0	
1Q15		1/5/2015	NE	41.26	NA	NA	NA	400.85		0.0	
2Q15		4/2/2015	NE	42.45	NA	NA	NA	399.66		0.0	
3Q15		7/6/2015	NE	42.07	NA	NA	NA	400.04		0.0	
4Q15		10/1/2015	NE	39.82	NA	NA	NA	402.29		0.6	
1Q16		1/4/2016	NE	39.78	NA	NA	NA	402.33		0.0	
2Q16		4/4/2016	NE	38.18	NA	NA	NA	403.93		8.6	
3Q16		7/5/2016	NE	36.89	NA	NA	NA	405.22		0.0	
4Q16		10/3/2016	NE	36.52	NA	NA	NA	405.59		0.3	
ROST-4-PZ(B)											
1Q14	442.38	2/10/2014	NE	40.84	NA	NA	NA	401.54	407.33 - 397.33 (35.05 - 45.05)	0.3	
2Q14		4/1/2014	NE	41.18	NA	NA	NA	401.20		0.0	
3Q14		7/1/2014	NE	41.38	NA	NA	NA	401.00		0.0	
4Q14		10/1/2014	NE	40.00	NA	NA	NA	402.38		0.0	
1Q15		1/5/2015	NE	40.55	NA	NA	NA	401.83		0.0	
2Q15		4/2/2015	NE	42.22	NA	NA	NA	400.16		6.1	
3Q15		7/6/2015	NE	41.84	NA	NA	NA	400.54		0.0	
4Q15		10/1/2015	NE	39.36	NA	NA	NA	403.02		0.6	
1Q16		1/4/2016	NE	40.06	NA	NA	NA	402.32		0.0	
2Q16		4/4/2016	NE	38.54	NA	NA	NA	403.84		0.7	
3Q16		7/5/2016	NE	37.89	NA	NA	NA	404.49		0.0	
4Q16		10/3/2016	NE	37.54	NA	NA	NA	404.84		0.5	
ROST-4-PZ(C)											
1Q14	442.66	2/10/2014	NE	41.92	NA	NA	NA	400.74	407.71 - 397.71 (34.95 - 44.95)	0.2	
2Q14		4/1/2014	NE	42.19	NA	NA	NA	400.47		0.0	
3Q14		7/1/2014	NE	42.38	NA	NA	NA	400.28		0.0	
4Q14		10/1/2014	NE	41.28	NA	NA	NA	401.38		0.0	
1Q15		1/5/2015	NE	41.74	NA	NA	NA	400.92		0.0	
2Q15		4/2/2015	NE	42.80	NA	NA	NA	399.86		0.0	
3Q15		7/6/2015	NE	42.78	NA	NA	NA	399.88		1.1	
4Q15		10/1/2015	NE	40.63	NA	NA	NA	402.03		0.6	
1Q16		1/4/2016	NE	41.11	NA	NA	NA	401.55		0.0	
2Q16		4/4/2016	NE	39.73	NA	NA	NA	402.93		0.0	
3Q16		7/6/2016	NE	38.77	NA	NA	NA	403.89		0.0	
4Q16		10/3/2016	NE	38.55	NA	NA	NA	404.11		2.8	
ROST-4-PZ(D)											
1Q14	442.98	2/10/2014	NE	41.78	NA	NA	NA	401.20	408.01 - 398.01 (34.97 - 44.97)	0.6	
2Q14		4/1/2014	NE	42.10	NA	NA	NA	400.88		0.6	
3Q14		7/1/2014	NE	42.22	NA	NA	NA	400.76		0.0	
4Q14		10/1/2014	NE	41.06	NA	NA	NA	401.92		0.0	
1Q15		1/5/2015	NE	41.54	NA	NA	NA	401.44		43.0	
2Q15		4/2/2015	42.59	42.65	400.33	400.39	0.06	400.38		0.0	
3Q15		7/6/2015	NE	42.65	NA	NA	NA	400.33		0.3	
4Q15		10/1/2015	NE	40.48	NA	NA	NA	402.50		0.6	
1Q16		1/4/2016	NE	40.95	NA	NA	NA	402.03		0.0	
2Q16		4/4/2016	NE	39.60	NA	NA	NA	403.38		0.0	
3Q16		7/6/2016	NE	38.67	NA	NA	NA	404.31		0.0	
4Q16		10/3/2016	NE	38.41	NA	NA	NA	404.57		14.1	
ROST-4-PZ(E)											
1Q14	441.96	2/10/2014	40.60	40.62	401.34	401.36	0.02	401.36	407.21 - 397.21 (34.75 - 44.75)	0.3	
2Q14		4/1/2014	NE	40.38	NA	NA	NA	401.58		0.0	
3Q14		7/1/2014	NE	40.59	NA	NA	NA	401.37		1.1	
4Q14		10/1/2014	NE	39.71	NA	NA	NA	402.25		0.0	
1Q15		1/5/2015	NE	39.95	NA	NA	NA	402.01		1.9	
2Q15		4/2/2015	NE	41.22	NA	NA	NA	400.74		0.0	
3Q15		7/6/2015	41.41	41.44	400.52	400.55	0.03	400.54		0.0	
4Q15		10/1/2015	NE	39.41	NA	NA	NA	402.55		0.6	
1Q16		1/4/2016	NE	39.68	NA	NA	NA	402.28		4.4	
2Q16		4/4/2016	NE	38.63	NA	NA	NA	403.33		0.0	
3Q16		7/5/2016	NE	37.86	NA	NA	NA	404.10		0.1	
4Q16		10/3/2016	NE	37.61	NA	NA	NA	404.35		0.8	
ROST-4-PZ(F)											
1Q14	442.12	2/10/2014	NE	40.22	NA	NA	NA	401.90	407.59 - 397.59 (34.53 - 44.53)	0.3	
2Q14		4/1/2014	NE	40.45	NA	NA	NA	401.67		1.0	
3Q14		7/1/2014	NE	40.51	NA	NA	NA	401.61		2.4	
4Q14		10/1/2014	NE	39.79	NA	NA	NA	402.33		0.0	
1Q15		1/5/2015	39.92	39.93	402.19	402.20	0.01	402.20		0.0	
2Q15		4/2/2015	NE	40.54	NA	NA	NA	401.58		0.0	
3Q15		7/6/2015	NE	40.81	NA	NA	NA	401.31		0.0	
4Q15		10/1/2015	NE	39.46	NA	NA	NA	402.66		0.5	
1Q16		1/4/2016	NE	39.77	NA	NA	NA	402.35		0.0	
2Q16		4/4/2016	NE	38.75	NA	NA	NA	403.37		0.0	
3Q16		7/5/2016	NE	38.10	NA	NA	NA	404.02		0.0	
4Q16		10/3/2016	NE	37.85	NA	NA	NA	404.27		1.6	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ(G)											
1Q14	442.13	2/10/2014	NE	42.35	NA	NA	NA	399.78	407.85 - 397.85 (34.28 - 44.28)	0.1	
2Q14		4/1/2014	NE	42.79	NA	NA	NA	399.34		0.5	
3Q14		7/1/2014	NE	42.08	NA	NA	NA	400.05		0.2	
4Q14		10/1/2014	NE	41.26	NA	NA	NA	400.87		0.0	
1Q15		1/5/2015	NE	41.97	NA	NA	NA	400.16		3.3	
2Q15		4/2/2015	NE	43.29	NA	NA	NA	398.84		0.0	
3Q15		7/6/2015	NE	42.80	NA	NA	NA	399.33		0.0	
4Q15		10/1/2015	NE	40.55	NA	NA	NA	401.58		0.1	
1Q16		1/4/2016	NE	41.02	NA	NA	NA	401.11		0.7	
2Q16		4/4/2016	NE	39.81	NA	NA	NA	402.32		0.0	
3Q16		7/6/2016	NE	38.34	NA	NA	NA	403.79		0.0	
4Q16		10/3/2016	NE	38.29	NA	NA	NA	403.84		0.4	
S-1											
1Q14	443.79	2/12/2014	43.95	43.96	399.83	399.84	0.01	399.84	Unknown	123.9	
2Q14		4/4/2014	NE	45.28	NA	NA	NA	398.51		0.2	
3Q14		7/2/2014	44.00	44.01	399.78	399.79	0.01	399.79		195.7	
4Q14		10/2/2014	42.80	42.82	400.97	400.99	0.02	400.99		256.4	
1Q15	443.90	1/5/2015	43.77	45.18	398.72	400.13	1.41	399.85		225.8	
2Q15		4/1/2015	45.40	46.07	397.83	398.50	0.67	398.37		201.5	
3Q15		7/7/2015	45.37	45.68	398.22	398.53	0.31	398.47		30.5	
4Q15		10/1/2015	42.82	42.90	401.00	401.08	0.08	401.06		138.0	
1Q16		1/5/2016	42.59	42.62	401.28	401.31	0.03	401.30		241.6	
2Q16		4/4/2016	41.66	41.98	401.92	402.24	0.32	402.18		156.2	
3Q16		7/6/2016	NE	39.12	NA	NA	NA	404.78		61.6	
4Q16		10/4/2016	40.22	40.26	403.64	403.68	0.04	403.67		97.1	
T-1											
1Q14	445.40	2/11/2014	NE	44.35	NA	NA	NA	401.05	398.40 - 388.40 (47.00 - 57.00)	1.1	*
2Q14		4/1/2014	NE	44.84	NA	NA	NA	400.56		0.0	*
3Q14		7/1/2014	NE	44.87	NA	NA	NA	400.53		0.0	*
4Q14		10/2/2014	NE	43.94	NA	NA	NA	401.46		0.2	*
1Q15		1/6/2015	NE	44.51	NA	NA	NA	400.89		0.2	*
2Q15		4/3/2015	NE	45.35	NA	NA	NA	400.05		0.0	*
3Q15		7/7/2015	NE	44.86	NA	NA	NA	400.54		0.0	*
4Q15		10/1/2015	NE	42.89	NA	NA	NA	402.51		0.0	*
1Q16		1/4/2016	NE	43.11	NA	NA	NA	402.29		0.0	*
2Q16		4/4/2016	NE	42.04	NA	NA	NA	403.36		0.0	*
3Q16		7/7/2016	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q16		10/3/2016	NE	40.52	NA	NA	NA	404.88		4.2	*
T-2											
1Q14	443.12	2/11/2014	NE	42.83	NA	NA	NA	400.30	392.63 - 372.48 (50.49 - 70.64)	0.7	*
2Q14		4/1/2014	NE	43.69	NA	NA	NA	399.44		0.0	*
3Q14		7/1/2014	NE	43.11	NA	NA	NA	400.02		0.0	*
4Q14		10/2/2014	NE	42.36	NA	NA	NA	400.76		0.0	*
1Q15	443.21	1/6/2015	NE	42.77	NA	NA	NA	400.44	392.72 - 372.56 (50.49 - 70.64)	0.2	*
2Q15		4/3/2015	NE	43.78	NA	NA	NA	399.43		0.0	*
3Q15		7/7/2015	NE	43.32	NA	NA	NA	399.89		0.0	*
4Q15		10/1/2015	NE	41.55	NA	NA	NA	401.66		0.0	*
1Q16		1/5/2016	NE	41.40	NA	NA	NA	401.81		0.0	*
2Q16		4/4/2016	NE	40.28	NA	NA	NA	402.93		3.5	*
3Q16		7/5/2016	NE	39.67	NA	NA	NA	403.54		0.1	*
4Q16		10/3/2016	NE	38.69	NA	NA	NA	404.52		0.0	*
T-3											
1Q14	450.91	2/12/2014	NE	52.01	NA	NA	NA	398.90	403.65 - 388.65 (47.26 - 62.26)	56.2	
2Q14		4/1/2014	NE	53.18	NA	NA	NA	397.73		0.0	
3Q14		7/2/2014	NE	52.21	NA	NA	NA	398.70		0.8	
4Q14		10/2/2014	NE	51.58	NA	NA	NA	399.33		3.4	
1Q15	451.07	1/9/2015	NE	51.44	NA	NA	NA	399.63	403.81 - 388.81 (47.26 - 62.26)	2.5	
2Q15	449.03	4/3/2015	NE	50.57	NA	NA	NA	398.46	403.81 - 388.81 (45.22 - 60.22)	0.1	Well casing trimmed to make well more accessible
3Q15		7/7/2015	NE	50.18	NA	NA	NA	398.85		0.0	
4Q15		10/2/2015	NE	48.64	NA	NA	NA	400.39		0.2	
1Q16		1/5/2016	NE	48.55	NA	NA	NA	400.48		0.1	
2Q16		4/4/2016	NE	47.07	NA	NA	NA	401.96		0.8	
3Q16		7/5/2016	NE	46.89	NA	NA	NA	402.14		0.2	
4Q16		10/4/2016	NE	45.41	NA	NA	NA	403.62		0.0	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
T-4											
1Q14	447.95	2/12/2014	NE	49.97	NA	NA	NA	397.98	398.24 - 383.24 (49.71 - 64.71)	4.5	
2Q14		4/4/2014	NE	52.42	NA	NA	NA	395.53		0.3	
3Q14		7/1/2014	NE	49.71	NA	NA	NA	398.24		0.0	
4Q14		10/2/2014	NE	49.63	NA	NA	NA	398.32		0.1	*
1Q15	448.03	1/9/2015	NE	49.11	NA	NA	NA	398.92	398.32 - 383.32 (49.71 - 64.71)	1.1	*
2Q15	446.63	4/6/2015	NE	49.83	NA	NA	NA	396.80	398.32 - 383.32 (48.31 - 63.31)	0.3	Well casing trimmed to make well more accessible
3Q15		7/7/2015	NE	48.26	NA	NA	NA	398.37		0.0	*
4Q15		10/2/2015	NE	46.91	NA	NA	NA	399.72		0.0	*
1Q16		1/5/2016	NE	46.73	NA	NA	NA	399.90		0.2	*
2Q16		4/4/2016	NE	44.77	NA	NA	NA	401.86		0.1	*
3Q16		7/7/2016	NE	45.04	NA	NA	NA	401.59		0.0	*
4Q16		10/4/2016	NE	42.80	NA	NA	NA	403.83		0.0	*
T-5											
1Q14	443.46	2/13/2014	NE	42.96	NA	NA	NA	400.50	395.13 - 378.58 (48.33 - 64.88)	174.5	*
2Q14		4/4/2014	NE	44.53	NA	NA	NA	398.93		8.0	*
3Q14		7/2/2014	NE	43.47	NA	NA	NA	399.99		5.4	*
4Q14		10/2/2014	NE	42.44	NA	NA	NA	401.02		0.5	*
1Q15	443.47	1/9/2015	NE	42.54	NA	NA	NA	400.93	395.14 - 378.59 (48.33 - 64.88)	1.9	*
2Q15		4/1/2015	NE	44.23	NA	NA	NA	399.24		0.8	*
3Q15		7/7/2015	NE	44.19	NA	NA	NA	399.28		20.0	*
4Q15		10/1/2015	NE	41.89	NA	NA	NA	401.58		5.9	*
1Q16		1/6/2016	NE	41.74	NA	NA	NA	401.73		6.9	*
2Q16		4/4/2016	NE	40.47	NA	NA	NA	403.00		0.3	*
3Q16		7/6/2016	NE	40.30	NA	NA	NA	403.17		4.3	*
4Q16		10/5/2016	NE	38.99	NA	NA	NA	404.48		28.5	*
T-6											
1Q14	446.55	2/12/2014	NE	46.63	NA	NA	NA	399.92	394.79 - 380.54 (51.76 - 66.01)	6.1	*
2Q14		4/4/2014	NE	47.43	NA	NA	NA	399.12		2.3	*
3Q14		7/1/2014	NE	46.23	NA	NA	NA	400.32		0.0	*
4Q14		10/3/2014	NE	45.18	NA	NA	NA	401.37		0.6	*
1Q15	446.61	1/8/2015	NE	46.78	NA	NA	NA	399.83	394.85 - 380.60 (51.76 - 66.01)	0.2	*
2Q15		4/1/2015	NE	48.56	NA	NA	NA	398.05		0.0	*
3Q15		7/9/2015	NE	47.97	NA	NA	NA	398.64		0.3	*
4Q15		10/1/2015	NE	45.20	NA	NA	NA	401.41		0.2	*
1Q16		1/4/2016	NE	45.40	NA	NA	NA	401.21		0.3	*
2Q16		4/4/2016	NE	44.43	NA	NA	NA	402.18		0.3	*
3Q16		7/5/2016	NE	43.81	NA	NA	NA	402.80		0.3	*
4Q16		10/3/2016	NE	43.09	NA	NA	NA	403.52		4.0	*
T-7											
1Q14	444.01	2/11/2014	NE	42.60	NA	NA	NA	401.41	395.29 - 380.29 (48.72 - 63.72)	4.7	*
2Q14		4/4/2014	NE	43.34	NA	NA	NA	400.67		2.5	*
3Q14		7/3/2014	NE	42.36	NA	NA	NA	401.65		2.4	*
4Q14		10/3/2014	NE	41.33	NA	NA	NA	402.68		6.9	*
1Q15	444.04	1/9/2015	NE	42.58	NA	NA	NA	401.46	395.32 - 380.32 (48.72 - 63.72)	1.8	*
2Q15		4/3/2015	NE	44.17	NA	NA	NA	399.87		5.7	*
3Q15		7/7/2015	NE	43.24	NA	NA	NA	400.80		3.8	*
4Q15		10/2/2015	NE	41.09	NA	NA	NA	402.95		15.6	*
1Q16		1/5/2016	NE	41.02	NA	NA	NA	403.02		4.3	*
2Q16		4/5/2016	NE	40.38	NA	NA	NA	403.66		3.4	*
3Q16		7/8/2016	NE	39.84	NA	NA	NA	404.20		1.1	*
4Q16		10/4/2016	NE	38.65	NA	NA	NA	405.39		0.5	*
T-12											
1Q14	444.69	2/13/2014	NE	45.26	NA	NA	NA	399.43	397.97 - 371.97 (46.72 - 72.72)	0.5	*
2Q14		4/4/2014	NE	46.38	NA	NA	NA	398.31		5.1	*
3Q14		7/1/2014	NE	45.31	NA	NA	NA	399.38		0.0	*
4Q14		10/3/2014	NE	44.63	NA	NA	NA	400.06		2.7	*
1Q15	444.80	1/8/2015	NE	44.92	NA	NA	NA	399.88	397.97 - 371.97 (46.83 - 72.83)	2.0	*
2Q15		4/1/2015	NE	46.73	NA	NA	NA	398.07		0.5	*
3Q15		7/9/2015	NE	46.20	NA	NA	NA	398.60		4.4	*
4Q15		10/1/2015	NE	43.79	NA	NA	NA	401.01		3.1	*
1Q16		1/4/2016	NE	44.43	NA	NA	NA	400.37		0.2	*
2Q16		4/4/2016	NE	43.10	NA	NA	NA	401.70		0.7	*
3Q16		7/5/2016	NE	41.39	NA	NA	NA	403.41		16.1	*
4Q16		10/3/2016	NE	41.61	NA	NA	NA	403.19		7.8	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
T-13											
1Q14	443.46	2/10/2014	NE	42.54	NA	NA	NA	400.92	396.46 - 370.46 (47.00 - 73.00)	0.0	*
2Q14		4/4/2014	NE	43.19	NA	NA	NA	400.27		0.4	*
3Q14		7/1/2014	NE	42.79	NA	NA	NA	400.67		0.0	*
4Q14		10/1/2014	NE	41.98	NA	NA	NA	401.48		0.0	*
1Q15	443.96	1/5/2015	NE	42.41	NA	NA	NA	401.55	396.46 - 370.46 (47.50 - 73.50)	0.0	*
2Q15		4/2/2015	NE	43.45	NA	NA	NA	400.51		0.0	*
3Q15		7/8/2015	NE	42.90	NA	NA	NA	401.06		0.1	*
4Q15		10/1/2015	NE	41.15	NA	NA	NA	402.81		0.0	*
1Q16		1/4/2016	NE	41.04	NA	NA	NA	402.92		0.0	*
2Q16		4/4/2016	NE	40.04	NA	NA	NA	403.92		0.0	*
3Q16		7/5/2016	NE	39.25	NA	NA	NA	404.71		0.2	*
4Q16		10/3/2016	NE	38.56	NA	NA	NA	405.40		0.5	*
T-15											
1Q14	445.03	2/11/2014	NE	44.75	NA	NA	NA	400.28	396.99 - 370.99 (48.04 - 74.04)	0.5	*
2Q14		4/1/2014	NE	45.69	NA	NA	NA	399.34		0.0	*
3Q14		7/1/2014	NE	45.12	NA	NA	NA	399.91		0.0	*
4Q14		10/1/2014	NE	44.41	NA	NA	NA	400.62		0.0	*
1Q15	445.14	1/6/2015	NE	44.68	NA	NA	NA	400.46	397.10 - 371.10 (48.04 - 74.04)	0.1	*
2Q15		4/3/2015	NE	45.58	NA	NA	NA	399.56		0.0	*
3Q15		7/7/2015	NE	44.93	NA	NA	NA	400.21		0.0	*
4Q15		10/2/2015	NE	43.54	NA	NA	NA	401.60		0.0	*
1Q16		1/5/2016	NE	43.20	NA	NA	NA	401.94		0.0	*
2Q16		4/4/2016	NE	42.13	NA	NA	NA	403.01		0.7	*
3Q16		7/5/2016	NE	41.64	NA	NA	NA	403.50		2.1	*
4Q16		10/3/2016	NE	40.44	NA	NA	NA	404.70		5.2	*
T-17											
1Q14	445.90	2/11/2014	NE	43.93	NA	NA	NA	401.97	401.80 - 375.80 (44.10 - 70.10)	2.1	*
2Q14		4/1/2014	NE	45.04	NA	NA	NA	400.86		0.0	
3Q14		7/3/2014	NE	44.50	NA	NA	NA	401.40		0.0	
4Q14		10/1/2014	NE	44.00	NA	NA	NA	401.90		0.0	*
1Q15	446.01	1/6/2015	NE	43.75	NA	NA	NA	402.26	401.91 - 375.91 (44.10 - 70.10)	0.1	*
2Q15		4/3/2015	NE	44.17	NA	NA	NA	401.84		0.6	
3Q15		7/7/2015	NE	43.22	NA	NA	NA	402.79		0.0	*
4Q15		10/2/2015	NE	42.29	NA	NA	NA	403.72		0.1	*
1Q16		1/5/2016	NE	42.21	NA	NA	NA	403.80		0.1	*
2Q16		4/4/2016	NE	40.37	NA	NA	NA	405.64		0.0	*
3Q16		7/5/2016	NE	40.41	NA	NA	NA	405.60		0.2	*
4Q16		10/3/2016	NE	38.45	NA	NA	NA	407.56		0.0	*
T-19											
1Q14	446.71	2/12/2014	NE	48.54	NA	NA	NA	398.17	395.94 - 369.94 (50.77 - 76.77)	24.3	*
2Q14		4/4/2014	NE	50.98	NA	NA	NA	395.73		11.7	
3Q14		7/1/2014	NE	48.42	NA	NA	NA	398.29		4.6	*
4Q14		10/2/2014	NE	48.28	NA	NA	NA	398.43		20.1	*
1Q15	446.79	1/9/2015	NE	47.58	NA	NA	NA	399.21	396.02 - 370.02 (50.77 - 76.77)	1.4	*
2Q15		4/6/2015	NE	48.84	NA	NA	NA	397.95		51.2	*
3Q15		7/7/2015	NE	48.40	NA	NA	NA	398.39		21.6	*
4Q15		10/2/2015	NE	46.97	NA	NA	NA	399.82		8.1	*
1Q16		1/5/2016	NE	46.83	NA	NA	NA	399.96		8.5	*
2Q16		4/4/2016	NE	44.80	NA	NA	NA	401.99		3.1	*
3Q16		7/7/2016	NE	45.11	NA	NA	NA	401.68		16.3	*
4Q16		10/4/2016	NE	42.40	NA	NA	NA	404.39		0.6	*
T-21											
1Q14	444.00	2/11/2014	NE	34.47	NA	NA	NA	409.53	412.04 - 386.04 (31.96 - 57.96)	0.2	
2Q14		4/4/2014	NE	35.28	NA	NA	NA	408.72		0.2	
3Q14		7/3/2014	NE	34.83	NA	NA	NA	409.17		0.0	
4Q14		10/3/2014	NE	34.47	NA	NA	NA	409.53		0.1	
1Q15	443.99	1/9/2015	NE	34.26	NA	NA	NA	409.73	412.03 - 386.03 (31.96 - 57.96)	0.0	
2Q15		4/3/2015	NE	34.80	NA	NA	NA	409.19		0.0	
3Q15		7/7/2015	NE	33.88	NA	NA	NA	410.11		0.0	
4Q15		10/2/2015	NE	32.70	NA	NA	NA	411.29		0.9	
1Q16		1/5/2016	NE	32.70	NA	NA	NA	411.29		0.0	
2Q16		4/5/2016	NE	31.70	NA	NA	NA	412.29		0.0	*
3Q16		7/7/2016	NE	31.08	NA	NA	NA	412.91		0.0	*
4Q16		10/5/2016	NE	29.87	NA	NA	NA	414.12		0.0	*
T-22											
1Q14	442.21	2/11/2014	NE	35.93	NA	NA	NA	406.28	410.66 - 384.96 (31.55 - 57.25)	0.7	
2Q14		4/4/2014	NE	36.61	NA	NA	NA	405.60		0.2	
3Q14		7/3/2014	NE	35.96	NA	NA	NA	406.25		0.0	
4Q14		10/3/2014	NE	35.19	NA	NA	NA	407.02		0.1	
1Q15	442.19	1/9/2015	NE	35.29	NA	NA	NA	406.90	410.64 - 384.94 (31.55 - 57.25)	0.0	
2Q15		4/3/2015	NE	36.38	NA	NA	NA	405.81		0.2	
3Q15		7/7/2015	NE	35.51	NA	NA	NA	406.68		10.7	
4Q15		10/2/2015	NE	34.08	NA	NA	NA	408.11		0.0	
1Q16		1/5/2016	NE	33.86	NA	NA	NA	408.33		0.0	
2Q16		4/5/2016	NE	33.11	NA	NA	NA	409.08		0.0	
3Q16		7/7/2016	NE	32.47	NA	NA	NA	409.72		0.0	
4Q16		10/4/2016	NE	31.49	NA	NA	NA	410.70		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
T-23											
1Q14	432.64	2/10/2014	NE	28.80	NA	NA	NA	403.84	405.41 - 379.41 (27.23 - 53.23)	0.1	
2Q14		4/4/2014	NE	29.45	NA	NA	NA	403.19		0.0	
3Q14		7/2/2014	NE	28.37	NA	NA	NA	404.27		0.8	
4Q14		10/2/2014	NE	27.29	NA	NA	NA	405.35		0.0	
1Q15	432.69	1/8/2015	NE	28.04	NA	NA	NA	404.65	405.46 - 379.46 (27.23 - 53.23)	0.9	
2Q15		4/6/2015	NM	NM	NA	NA	NA	NA		NM	Unable to locate well due to landscaping
3Q15		7/6/2015	NE	27.93	NA	NA	NA	404.76		0.3	
4Q15		10/2/2015	NE	26.97	NA	NA	NA	405.72		1.0	*
1Q16		1/5/2016	NE	25.98	NA	NA	NA	406.71		0.0	*
2Q16		4/5/2016	NE	26.00	NA	NA	NA	406.69		0.0	*
3Q16		7/7/2016	NE	25.07	NA	NA	NA	407.62		0.0	*
4Q16		10/5/2016	NE	24.18	NA	NA	NA	408.51		0.0	*
T-24											
1Q14	443.72	2/12/2014	43.35	45.60	398.12	400.37	2.25	399.92	402.22 - 376.57 (41.50 - 67.15)	8.2	
2Q14		4/4/2014	44.95	45.44	398.28	398.77	0.49	398.67		0.4	
3Q14		7/2/2014	44.09	44.26	399.46	399.63	0.17	399.59		0.0	
4Q14		10/3/2014	43.12	44.01	399.71	400.60	0.89	400.42		1.6	
1Q15	443.81	1/9/2015	43.75	45.39	398.42	400.06	1.64	399.73	402.31 - 376.66 (41.50 - 67.15)	3.4	
2Q15		4/1/2015	45.02	46.10	397.71	398.79	1.08	398.57		0.0	
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q15		10/1/2015	42.51	42.63	401.18	401.30	0.12	401.28		1.4	
1Q16		1/5/2016	42.70	43.50	400.31	401.11	0.80	400.95		0.0	
2Q16		4/5/2016	41.61	42.16	401.65	402.20	0.55	402.09		2.6	
3Q16		7/6/2016	NE	40.54	NA	NA	NA	403.27		0.1	*
4Q16		10/4/2016	NE	39.88	NA	NA	NA	403.93		6.0	*
T-28											
1Q14	444.22	2/11/2014	NE	43.72	NA	NA	NA	400.50	Unknown	0.8	
2Q14		4/1/2014	NE	44.84	NA	NA	NA	399.38		0.0	
3Q14		7/1/2014	NE	44.05	NA	NA	NA	400.17		0.0	
4Q14		10/1/2014	NE	43.60	NA	NA	NA	400.62		0.0	
1Q15	444.43	1/6/2015	NE	43.46	NA	NA	NA	400.97		0.0	
2Q15		4/6/2015	NE	43.93	NA	NA	NA	400.50		1.1	
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q15		10/1/2015	NE	42.23	NA	NA	NA	402.20		0.3	*
1Q16		1/5/2016	NE	41.60	NA	NA	NA	402.83		0.0	*
2Q16		4/4/2016	NE	40.39	NA	NA	NA	404.04		0.0	*
3Q16		7/7/2016	NE	40.35	NA	NA	NA	404.08		0.0	
4Q16		10/3/2016	NE	38.60	NA	NA	NA	405.83		0.0	
T-37											
1Q14	447.15	2/12/2014	NE	44.08	NA	NA	NA	403.07	398.30 - 378.30 (48.85 - 68.85)	4.1	*
2Q14		4/1/2014	NE	44.91	NA	NA	NA	402.24		0.0	*
3Q14		7/1/2014	NE	44.44	NA	NA	NA	402.71		0.0	*
4Q14		10/2/2014	NE	44.03	NA	NA	NA	403.12		17.4	*
1Q15	447.25	1/9/2015	NE	43.17	NA	NA	NA	404.08	398.40 - 378.40 (48.85 - 68.85)	1.4	*
2Q15		4/3/2015	NE	43.93	NA	NA	NA	403.32		0.0	*
3Q15		7/7/2015	NE	43.21	NA	NA	NA	404.04		0.0	*
4Q15		10/1/2015	NE	42.03	NA	NA	NA	405.22		0.0	*
1Q16		1/5/2016	NE	42.01	NA	NA	NA	405.24		0.1	*
2Q16		4/4/2016	NE	40.54	NA	NA	NA	406.71		0.1	*
3Q16		7/5/2016	NE	40.55	NA	NA	NA	406.70		0.1	*
4Q16		10/5/2016	NE	38.67	NA	NA	NA	408.58		0.2	*
T-38											
1Q14	445.62	2/12/2014	NE	41.21	NA	NA	NA	404.41	396.48 - 376.48 (49.14 - 69.14)	0.3	*
2Q14		4/3/2014	NE	41.38	NA	NA	NA	404.24		0.0	*
3Q14		7/1/2014	NE	41.39	NA	NA	NA	404.23		0.0	*
4Q14		10/2/2014	NE	40.96	NA	NA	NA	404.66		0.0	*
1Q15	445.67	1/9/2015	NE	39.96	NA	NA	NA	405.71	396.53 - 376.53 (49.14 - 69.14)	0.0	*
2Q15		4/3/2015	NE	40.64	NA	NA	NA	405.03		0.0	*
3Q15		7/7/2015	NE	39.66	NA	NA	NA	406.01		0.0	*
4Q15		10/1/2015	NE	38.67	NA	NA	NA	407.00		0.0	*
1Q16		1/5/2016	NE	38.52	NA	NA	NA	407.15		0.0	*
2Q16		4/4/2016	NE	37.67	NA	NA	NA	408.00		0.0	*
3Q16		7/5/2016	NE	37.57	NA	NA	NA	408.10		0.1	*
4Q16		10/5/2016	NE	35.60	NA	NA	NA	410.07		0.2	*
T-62											
1Q14	431.73	2/11/2014	NE	30.81	NA	NA	NA	400.92	412.02 - 382.02 (19.71 - 49.71)	31.0	
2Q14		4/7/2014	NE	31.37	NA	NA	NA	400.36		0.0	
3Q14		7/2/2014	NM	NM	NA	NA	NA	NA		NM	
4Q14		10/3/2014	NE	28.62	NA	NA	NA	403.11		0.1	
1Q15	431.99	1/12/2015	NE	30.15	NA	NA	NA	401.84	412.28 - 382.28 (19.71 - 49.71)	0.0	
2Q15		4/3/2015	NE	31.72	NA	NA	NA	400.27		0.0	
3Q15		7/8/2015	NE	29.43	NA	NA	NA	402.56		35.4	
4Q15		10/2/2015	NE	28.22	NA	NA	NA	403.77		0.0	
1Q16		1/5/2016	NE	27.87	NA	NA	NA	404.12		61.2	
2Q16		4/5/2016	NE	27.74	NA	NA	NA	404.25		0.1	
3Q16		7/8/2016	NE	27.04	NA	NA	NA	404.95		0.0	
4Q16		10/4/2016	NE	25.75	NA	NA	NA	406.24		0.3	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
T-63											
1Q14	431.24	2/11/2014	NE	30.74	NA	NA	NA	400.50	411.26 - 381.26 (19.98 - 49.98)	0.5	
2Q14		4/7/2014	NE	30.80	NA	NA	NA	400.44		0.1	
3Q14		7/2/2014	NE	29.21	NA	NA	NA	402.03		1.0	
4Q14		10/3/2014	NE	28.11	NA	NA	NA	403.13		0.0	
1Q15	431.43	1/5/2015	NM	NM	NA	NA	NA	NA	411.45 - 381.45 (19.98 - 49.98)	NM	Unsafe condition at well - Unable to access
2Q15		4/3/2015	NE	31.52	NA	NA	NA	399.91		0.5	
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition at well - Unable to access
4Q15		10/2/2015	NE	27.78	NA	NA	NA	403.65		0.8	
1Q16		1/5/2016	NE	27.22	NA	NA	NA	404.21		0.3	
2Q16		4/5/2016	NE	27.33	NA	NA	NA	404.10		0.0	
3Q16		7/8/2016	NE	26.55	NA	NA	NA	404.88		0.0	
4Q16		10/4/2016	NE	25.42	NA	NA	NA	406.01		0.1	
T-64											
1Q14	428.80	2/11/2014	NE	29.03	NA	NA	NA	399.77	408.99 - 378.99 (19.81 - 49.81)	0.4	
2Q14		4/4/2014	NE	29.29	NA	NA	NA	399.51		0.0	
3Q14		7/2/2014	NE	26.90	NA	NA	NA	401.90		0.8	
4Q14		10/3/2014	NE	25.81	NA	NA	NA	402.99		0.0	
1Q15	428.93	1/12/2015	NE	27.96	NA	NA	NA	400.97	409.12 - 379.12 (19.81 - 49.81)	0.9	
2Q15		4/3/2015	NE	29.46	NA	NA	NA	399.47		1.6	
3Q15		7/8/2015	NE	25.37	NA	NA	NA	403.56		172.1	
4Q15		10/2/2015	NE	25.61	NA	NA	NA	403.32		1.2	
1Q16		1/5/2016	NM	NM	NA	NA	NA	NA		0.0	Unsafe condition at well - Unable to access
2Q16		4/5/2016	NE	25.26	NA	NA	NA	403.67		0.0	
3Q16		7/8/2016	NE	24.24	NA	NA	NA	404.69		0.0	
4Q16		10/4/2016	NE	23.11	NA	NA	NA	405.82		153.3	

NOTES:

1) Elevations presented in this table are relative to the 1988 NAVD datum.

2) The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.

3) PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.

4) btoc = Below Top of Casing; ppm = parts per million; NA = Not Applicable; NE = Not Encountered; NM = Not Measured

5) * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.

6) 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.

7) Wells in the WRR were resurveyed during 4Q14.

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TABLE 1b
4Q16 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-01											
Monthly	442.65	11/2/2016	NE	38.54	NA	NA	NA	404.11	393.85 - 383.85 (48.80 - 58.80)	0.0	*
		12/6/2016	NE	38.30	NA	NA	NA	404.35		0.0	*
MW-02											
Monthly	443.77	11/2/2016	NE	39.91	NA	NA	NA	403.86	393.90 - 383.90 (49.87 - 59.87)	130.0	*
		12/6/2016	NE	39.58	NA	NA	NA	404.19		226.7	*
MW-03											
Monthly	430.08	11/2/2016	NE	25.58	NA	NA	NA	404.50	395.41 - 385.41 (34.67 - 44.67)	0.0	*
		12/6/2016	NE	25.43	NA	NA	NA	404.65		0.0	*
MW-04											
Monthly	441.14	11/2/2016	NE	36.96	NA	NA	NA	404.18	396.08 - 386.08 (45.06 - 55.06)	40.1	*
		12/6/2016	NE	36.75	NA	NA	NA	404.39		41.0	*
MW-05											
Monthly	429.80	11/2/2016	NE	25.29	NA	NA	NA	404.51	395.83 - 385.83 (33.97 - 43.97)	0.0	*
		12/6/2016	NE	25.24	NA	NA	NA	404.56		0.0	*
MW-06A											
Monthly	432.14	11/2/2016	NE	27.43	NA	NA	NA	404.71	397.31 - 387.31 (34.83 - 44.83)	0.0	*
		12/6/2016	NE	27.38	NA	NA	NA	404.76		7.8	*
MW-06B											
Monthly	432.29	11/2/2016	NE	27.47	NA	NA	NA	404.82	368.24 - 363.24 (64.05 - 69.05)	0.0	*
		12/6/2016	NE	27.43	NA	NA	NA	404.86		0.0	*
MW-06C											
Monthly	432.11	11/2/2016	NE	27.29	NA	NA	NA	404.82	347.16 - 342.16 (84.95 - 89.95)	0.0	*
		12/6/2016	NE	27.21	NA	NA	NA	404.90		1.2	*
MW-06D											
Monthly	431.99	11/2/2016	NE	27.12	NA	NA	NA	404.87	327.27 - 322.27 (104.72 - 109.72)	0.0	*
		12/6/2016	NE	27.07	NA	NA	NA	404.92		1.6	*
MW-07											
Monthly	443.10	11/2/2016	NE	38.99	NA	NA	NA	404.11	400.18 - 390.18 (42.92 - 52.92)	2860.0	*
		12/6/2016	NE	39.81	NA	NA	NA	403.29		27.4	*
MW-08											
Monthly	434.11	11/2/2016	NE	29.80	NA	NA	NA	404.31	400.51 - 390.51 (33.60 - 43.60)	473.4	*
		12/6/2016	NE	29.70	NA	NA	NA	404.41		1089.0	*
MW-09											
Monthly	445.20	11/1/2016	NE	40.02	NA	NA	NA	405.18	398.75 - 388.75 (46.45 - 56.45)	0.0	*
		12/6/2016	NE	40.97	NA	NA	NA	404.23		0.0	*
MW-10											
Monthly	445.03	11/1/2016	NE	38.98	NA	NA	NA	406.05	400.60 - 390.60 (44.43 - 54.43)	0.0	*
		12/6/2016	NE	40.01	NA	NA	NA	405.02		1.1	*
MW-11											
Monthly	442.33	11/2/2016	NE	37.80	NA	NA	NA	404.53	400.67 - 390.67 (41.66 - 51.66)	0.0	*
		12/7/2016	NE	37.66	NA	NA	NA	404.67		0.0	*
MW-12											
Monthly	442.60	11/2/2016	NE	38.18	NA	NA	NA	404.42	400.68 - 390.68 (41.92 - 51.92)	0.0	*
		12/6/2016	NE	37.99	NA	NA	NA	404.61		0.7	*
MW-14											
Monthly	434.44	11/1/2016	NE	29.44	NA	NA	NA	405.00	401.02 - 391.02 (33.42 - 43.42)	50.7	*
		12/7/2016	NE	29.56	NA	NA	NA	404.88		4.3	*
MW-16											
Monthly	443.39	11/2/2016	NE	39.44	NA	NA	NA	403.95	406.33 - 396.33 (37.06 - 47.06)	0.0	
		12/6/2016	NE	39.20	NA	NA	NA	404.19		0.0	
MW-17											
Monthly	441.57	11/2/2016	NE	37.92	NA	NA	NA	403.65	407.28 - 392.28 (34.29 - 49.29)	0.0	
		12/6/2016	NE	37.67	NA	NA	NA	403.90		0.0	
MW-18											
Monthly	442.04	11/2/2016	NE	38.51	NA	NA	NA	403.53	407.12 - 392.12 (34.92 - 49.92)	0.0	
		12/6/2016	NE	38.39	NA	NA	NA	403.65		0.0	
MW-19											
Weekly	442.77	10/10/2016	NE	39.40	NA	NA	NA	403.37	406.43 - 391.43 (36.34 - 51.34)	0.0	
		10/18/2016	NE	39.21	NA	NA	NA	403.56		0.0	
		10/25/2016	NE	39.25	NA	NA	NA	403.52		0.1	
Monthly		11/2/2016	NE	39.03	NA	NA	NA	403.74		0.0	
Weekly		11/8/2016	NE	38.99	NA	NA	NA	403.78		0.0	
		11/15/2016	NE	38.82	NA	NA	NA	403.95		0.0	
		11/22/2016	NE	38.86	NA	NA	NA	403.91		0.0	
		11/29/2016	NE	38.74	NA	NA	NA	404.03		0.0	
Monthly		12/6/2016	NE	39.08	NA	NA	NA	403.69		0.0	
Weekly		12/13/2016	NE	38.91	NA	NA	NA	403.86		0.7	
		12/20/2016	NE	38.77	NA	NA	NA	404.00		0.0	
		12/27/2016	NE	38.73	NA	NA	NA	404.04		0.0	
MW-20											
Monthly	443.67	11/2/2016	NE	39.87	NA	NA	NA	403.80	407.79 - 392.79 (35.88 - 50.88)	0.0	
		12/6/2016	NE	39.63	NA	NA	NA	404.04		0.0	
MW-21											
Monthly	443.81	11/2/2016	NE	39.95	NA	NA	NA	403.86	408.80 - 393.80 (35.01 - 50.01)	0.0	
		12/6/2016	NE	39.64	NA	NA	NA	404.17		0.0	

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TABLE 1b
4Q16 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-22											
Weekly	442.16	10/10/2016	NE	38.38	NA	NA	NA	403.78	404.28 - 394.28 (37.88 - 47.88)	0.8	
		10/18/2016	NE	38.21	NA	NA	NA	403.95		82.1	
		10/25/2016	NE	38.26	NA	NA	NA	403.90		132.2	
Monthly		11/2/2016	NE	38.14	NA	NA	NA	404.02		2.4	
Weekly		11/8/2016	NE	38.04	NA	NA	NA	404.12		22.4	
		11/15/2016	NE	37.89	NA	NA	NA	404.27		15.2	
		11/22/2016	NE	37.87	NA	NA	NA	404.29		38.8	*
		11/29/2016	NE	37.75	NA	NA	NA	404.41		69.1	*
Monthly		12/6/2016	NE	37.90	NA	NA	NA	404.26		7.5	
Weekly		12/13/2016	NE	37.94	NA	NA	NA	404.22		18.6	
		12/20/2016	NE	37.87	NA	NA	NA	404.29		34.8	
		12/27/2016	NE	37.94	NA	NA	NA	404.22		5.9	
MW-23											
Monthly	431.41	11/2/2016	NE	26.57	NA	NA	NA	404.84	402.39 - 392.39 (29.02 - 39.02)	0.2	*
		12/6/2016	NE	26.68	NA	NA	NA	404.73		0.0	*
MW-24											
Monthly	443.42	11/2/2016	NE	39.04	NA	NA	NA	404.38	404.53 - 394.53 (38.89 - 48.89)	0.0	
		12/7/2016	NE	38.96	NA	NA	NA	404.46		2.6	
MW-25											
Monthly	438.35	11/4/2016	NE	34.19	NA	NA	NA	404.16	402.76 - 392.76 (35.59 - 45.59)	0.0	*
		12/6/2016	NE	33.87	NA	NA	NA	404.48		52.9	*
MW-26											
Monthly	441.02	11/2/2016	NE	36.92	NA	NA	NA	404.10	402.87 - 392.87 (38.15 - 48.15)	0.0	*
		12/6/2016	NE	36.66	NA	NA	NA	404.36		0.7	*
MW-27											
Monthly	443.40	11/1/2016	NE	38.32	NA	NA	NA	405.08	403.61 - 393.61 (39.79 - 49.79)	0.0	*
		12/6/2016	NE	38.08	NA	NA	NA	405.32		0.1	*
MW-28											
Monthly	443.34	11/1/2016	NE	37.45	NA	NA	NA	405.89	409.73 - 399.73 (33.61 - 43.61)	0.0	
		12/6/2016	NE	37.33	NA	NA	NA	406.01		0.0	
P-54											
Monthly	442.32	11/2/2016	NE	37.76	NA	NA	NA	404.56	404.32 - 379.32 (38.00 - 63.00)	0.0	*
		12/6/2016	NE	37.58	NA	NA	NA	404.74		0.0	*
P-55R											
Weekly	443.79	10/10/2016	39.34	39.40	404.39	404.45	0.06	404.44	403.36 - 393.36 (40.43 - 50.43)	251.9	*
		10/18/2016	39.16	39.42	404.37	404.63	0.26	404.58		343.1	*
		10/25/2016	39.27	39.42	404.37	404.52	0.15	404.49		253.3	*
Monthly		11/1/2016	39.05	39.23	404.56	404.74	0.18	404.70		111.6	*
Weekly		11/8/2016	38.87	39.07	404.72	404.92	0.20	404.88		325.5	*
		11/15/2016	38.75	38.94	404.85	405.04	0.19	405.00		330.2	*
		11/22/2016	38.80	38.88	404.91	404.99	0.08	404.97		295.7	*
		11/29/2016	38.72	38.80	404.99	405.07	0.08	405.05		246.4	*
Monthly		12/7/2016	38.83	38.85	404.94	404.96	0.02	404.96		168.8	*
Weekly		12/13/2016	38.80	39.04	404.75	404.99	0.24	404.94		210.0	*
		12/20/2016	38.94	39.00	404.79	404.85	0.06	404.84		267.8	*
		12/27/2016	39.02	39.10	404.69	404.77	0.08	404.75		106.1	*
P-56											
Monthly	446.14	11/1/2016	NE	42.35	NA	NA	NA	403.79	405.32 - 380.32 (40.82 - 65.82)	0.0	
		12/7/2016	NE	42.18	NA	NA	NA	403.96		253.6	
P-57											
Monthly	446.96	11/1/2016	NE	43.09	NA	NA	NA	403.87	402.77 - 392.77 (44.19 - 54.19)	105.2	*
		12/7/2016	NE	42.98	NA	NA	NA	403.98		138.5	*
P-58											
Monthly	444.94	11/1/2016	NE	41.03	NA	NA	NA	403.91	404.73 - 379.73 (40.214 - 65.214)	0.0	
		12/7/2016	NE	40.94	NA	NA	NA	404.00		0.1	
P-59											
Monthly	446.86	11/1/2016	NE	42.25	NA	NA	NA	404.61	398.95 - 373.95 (47.91 - 72.91)	64.2	*
		12/7/2016	NE	33.12	NA	NA	NA	413.74		220.9	*
P-60											
Weekly	446.69	10/10/2016	42.92	42.98	403.71	403.77	0.06	403.76	403.24 - 383.24 (43.45 - 63.45)	64.9	*
		10/18/2016	42.76	42.80	403.89	403.93	0.04	403.92		206.5	*
		10/25/2016	42.79	42.82	403.87	403.90	0.03	403.89		71.4	*
Monthly		11/1/2016	42.60	42.61	404.08	404.09	0.01	404.09		60.0	*
Weekly		11/8/2016	42.54	42.58	404.11	404.15	0.04	404.14		255.1	*
		11/15/2016	42.41	42.43	404.26	404.28	0.02	404.28		365.7	*
		11/22/2016	42.28	42.33	404.36	404.41	0.05	404.40		56.3	*
		11/29/2016	NE	42.23	NA	NA	NA	404.46		147.7	*
Monthly		12/7/2016	NE	42.44	NA	NA	NA	404.25		113.4	*
Weekly		12/13/2016	42.30	42.36	404.33	404.39	0.06	404.38		154.4	*
		12/20/2016	42.32	42.35	404.34	404.37	0.03	404.36		44.4	*
		12/27/2016	NE	42.42	NA	NA	NA	404.27		59.3	*
P-60-11											
Monthly	446.26	11/1/2016	NE	41.68	NA	NA	NA	404.58	413.11 - 383.11 (33.15 - 63.15)	0.0	
		12/7/2016	NE	41.48	NA	NA	NA	404.78		0.0	
P-60-12											
Monthly	443.43	11/1/2016	NE	39.40	NA	NA	NA	404.03	383.43 - 373.43 (60.00 - 70.00)	1.4	*
		12/7/2016	NE	39.22	NA	NA	NA	404.21		36.9	*

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1b
4Q16 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
P-60-13											
Monthly	442.92	11/1/2016	NE	38.57	NA	NA	NA	404.35	402.92 - 382.92 (40.00 - 60.00)	0.0	*
		12/7/2016	NE	38.41	NA	NA	NA	404.51		6.0	*
P-60-S											
Monthly	446.84	11/1/2016	NE	42.44	NA	NA	NA	404.40	410.36 - 395.36 (36.48 - 51.48)	0.0	
		12/7/2016	NE	42.20	NA	NA	NA	404.64		0.7	
P-66											
Monthly	436.81	11/1/2016	NE	32.48	NA	NA	NA	404.33	402.09 - 377.09 (34.72 - 59.72)	100.4	*
		12/7/2016	NE	32.45	NA	NA	NA	404.36		65.8	*
P-68											
Weekly	445.18	10/10/2016	41.62	41.67	403.51	403.56	0.05	403.55	399.92 - 374.92 (45.26 - 70.26)	205.8	*
		10/18/2016	41.41	41.46	403.72	403.77	0.05	403.76		298.4	*
		10/25/2016	41.45	41.50	403.68	403.73	0.05	403.72		159.6	*
Monthly		11/1/2016	41.29	41.33	403.85	403.89	0.04	403.88		274.5	*
Weekly		11/8/2016	41.18	41.22	403.96	404.00	0.04	403.99		234.7	*
		11/15/2016	41.03	41.08	404.10	404.15	0.05	404.14		212.2	*
		11/22/2016	40.94	40.98	404.20	404.24	0.04	404.23		156.4	*
		11/29/2016	40.88	40.90	404.28	404.30	0.02	404.30		262.2	*
Monthly		12/7/2016	41.06	41.11	404.07	404.12	0.05	404.11		216.5	*
Weekly		12/13/2016	41.00	41.04	404.14	404.18	0.04	404.17		232.8	*
		12/20/2016	40.93	40.96	404.22	404.25	0.03	404.24		127.3	*
		12/27/2016	41.02	41.05	404.13	404.16	0.03	404.15		91.8	*
P-74											
Monthly	442.72	11/1/2016	NE	39.23	NA	NA	NA	403.49	398.29 - 373.29 (44.43 - 69.43)	0.0	*
		12/7/2016	NE	38.42	NA	NA	NA	404.30		0.0	*
P-93A											
Monthly	445.12	11/1/2016	NE	41.28	NA	NA	NA	403.84	402.05 - 392.05 (43.07 - 53.07)	0.0	*
		12/7/2016	NE	41.18	NA	NA	NA	403.94		0.2	*
P-93B											
Monthly	446.52	11/1/2016	NE	42.68	NA	NA	NA	403.84	371.92 - 369.92 (74.60 - 76.60)	0.0	*
		12/7/2016	NE	42.70	NA	NA	NA	403.82		0.0	*
P-93C											
Monthly	446.28	11/1/2016	NE	42.44	NA	NA	NA	403.84	353.81 - 348.81 (92.47 - 97.47)	0.8	*
		12/7/2016	NE	42.35	NA	NA	NA	403.93		4.7	*
P-93D											
Monthly	446.73	11/1/2016	NE	42.83	NA	NA	NA	403.90	320.98 - 318.98 (125.75 - 127.75)	0.0	*
		12/7/2016	NE	42.77	NA	NA	NA	403.96		0.0	*
ROST-3-MW											
Weekly	442.29	10/10/2016	NE	38.16	NA	NA	NA	404.13	404.48 - 394.48 (37.81 - 47.81)	113.1	
		10/18/2016	NE	38.01	NA	NA	NA	404.28		290.3	
		10/25/2016	NE	38.02	NA	NA	NA	404.27		81.0	
Monthly		11/1/2016	NE	37.81	NA	NA	NA	404.48		64.3	
Weekly		11/8/2016	NE	37.83	NA	NA	NA	404.46		155.4	
		11/15/2016	NE	37.69	NA	NA	NA	404.60		265.9	*
		11/22/2016	NE	37.63	NA	NA	NA	404.66		189.9	*
		11/29/2016	NE	37.55	NA	NA	NA	404.74		354.6	*
Monthly		12/6/2016	NE	37.66	NA	NA	NA	404.63		19.5	*
Weekly		12/13/2016	NE	37.72	NA	NA	NA	404.57		68.8	*
		12/20/2016	NE	37.62	NA	NA	NA	404.67		45.7	*
		12/27/2016	NE	37.71	NA	NA	NA	404.58		143.7	*
ROST-4-PZ											
Weekly	442.13	10/10/2016	NE	37.61	NA	NA	NA	404.52	407.20 - 397.20 (34.93 - 44.93)	0.0	
		10/18/2016	NE	37.51	NA	NA	NA	404.62		1.0	
		10/25/2016	NE	37.49	NA	NA	NA	404.64		0.0	
Monthly		11/1/2016	NE	37.35	NA	NA	NA	404.78		0.0	
Weekly		11/8/2016	NE	37.34	NA	NA	NA	404.79		0.0	
		11/15/2016	NE	37.21	NA	NA	NA	404.92		0.0	
		11/22/2016	NE	37.11	NA	NA	NA	405.02		0.1	
		11/29/2016	NE	37.06	NA	NA	NA	405.07		2.3	
Monthly		12/6/2016	NE	37.14	NA	NA	NA	404.99		0.0	
Weekly		12/13/2016	NE	37.15	NA	NA	NA	404.98		0.0	
		12/20/2016	NE	37.01	NA	NA	NA	405.12		1.2	
		12/27/2016	NE	37.09	NA	NA	NA	405.04		0.1	
ROST-4-PZ(A)											
Weekly	442.11	10/10/2016	NE	36.49	NA	NA	NA	405.62	407.34 - 397.34 (34.77 - 44.77)	0.0	
		10/18/2016	NE	36.40	NA	NA	NA	405.71		16.4	
		10/25/2016	NE	36.40	NA	NA	NA	405.71		0.0	
Monthly		11/1/2016	NE	36.36	NA	NA	NA	405.75		0.0	
Weekly		11/8/2016	NE	36.33	NA	NA	NA	405.78		0.5	
		11/15/2016	NE	36.24	NA	NA	NA	405.87		0.0	
		11/22/2016	NE	36.19	NA	NA	NA	405.92		0.0	
		11/29/2016	NE	36.14	NA	NA	NA	405.97		0.0	
Monthly		12/6/2016	NE	36.22	NA	NA	NA	405.89		0.5	
Weekly		12/13/2016	NE	36.24	NA	NA	NA	405.87		0.3	
		12/20/2016	NE	36.25	NA	NA	NA	405.86		0.0	
		12/27/2016	NE	36.22	NA	NA	NA	405.89		0.0	

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TABLE 1b
4Q16 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ(B)											
Weekly	442.38	10/10/2016	NE	37.47	NA	NA	NA	404.91	407.33 - 397.33 (35.05 - 45.05)	0.0	
		10/18/2016	NE	37.36	NA	NA	NA	405.02		0.0	
		10/25/2016	NE	37.35	NA	NA	NA	405.03		0.0	
Monthly		11/1/2016	NE	37.26	NA	NA	NA	405.12		0.0	
Weekly		11/8/2016	NE	37.25	NA	NA	NA	405.13		0.0	
		11/15/2016	NE	37.14	NA	NA	NA	405.24		0.0	
		11/22/2016	NE	37.06	NA	NA	NA	405.32		0.0	
		11/29/2016	NE	37.03	NA	NA	NA	405.35		0.0	
Monthly		12/6/2016	NE	37.02	NA	NA	NA	405.36		0.0	
Weekly		12/13/2016	NE	37.04	NA	NA	NA	405.34		0.2	
		12/20/2016	NE	37.04	NA	NA	NA	405.34		0.0	
		12/27/2016	NE	37.01	NA	NA	NA	405.37		0.0	
ROST-4-PZ(C)											
Weekly	442.66	10/10/2016	NE	38.48	NA	NA	NA	404.18	407.71 - 397.71 (34.95 - 44.95)	6.0	
		10/18/2016	NE	38.36	NA	NA	NA	404.30		0.0	
		10/25/2016	NE	38.34	NA	NA	NA	404.32		0.0	
Monthly		11/1/2016	NE	38.21	NA	NA	NA	404.45		0.0	
Weekly		11/8/2016	NE	38.18	NA	NA	NA	404.48		0.2	
		11/15/2016	NE	38.05	NA	NA	NA	404.61		0.0	
		11/22/2016	NE	37.99	NA	NA	NA	404.67		0.0	
		11/29/2016	NE	37.91	NA	NA	NA	404.75		0.0	
Monthly		12/6/2016	NE	37.95	NA	NA	NA	404.71		0.0	
Weekly		12/13/2016	NE	37.98	NA	NA	NA	404.68		0.1	
		12/20/2016	NE	37.88	NA	NA	NA	404.78		0.0	
		12/27/2016	NE	37.95	NA	NA	NA	404.71		1.0	
ROST-4-PZ(D)											
Weekly	442.98	10/10/2016	NE	38.35	NA	NA	NA	404.63	408.01 - 398.01 (34.97 - 44.97)	0.0	
		10/18/2016	NE	38.24	NA	NA	NA	404.74		0.0	
		10/25/2016	NE	38.23	NA	NA	NA	404.75		0.0	
Monthly		11/1/2016	NE	38.03	NA	NA	NA	404.95		0.0	
Weekly		11/8/2016	NE	38.06	NA	NA	NA	404.92		0.0	
		11/15/2016	NE	37.93	NA	NA	NA	405.05		0.0	
		11/22/2016	NE	37.82	NA	NA	NA	405.16		0.0	
		11/29/2016	NE	37.80	NA	NA	NA	405.18		0.0	
Monthly		12/6/2016	NE	37.83	NA	NA	NA	405.15		5.1	
Weekly		12/13/2016	NE	37.88	NA	NA	NA	405.10		0.0	
		12/20/2016	NE	37.71	NA	NA	NA	405.27		0.3	
		12/27/2016	NE	37.81	NA	NA	NA	405.17		6.0	
ROST-4-PZ(E)											
Weekly	441.96	10/10/2016	NE	37.60	NA	NA	NA	404.36	407.21 - 397.21 (34.75 - 44.75)	0.0	
		10/18/2016	NE	37.50	NA	NA	NA	404.46		0.0	
		10/25/2016	NE	37.48	NA	NA	NA	404.48		0.0	
Monthly		11/1/2016	NE	37.36	NA	NA	NA	404.60		0.0	
Weekly		11/8/2016	NE	37.34	NA	NA	NA	404.62		0.1	
		11/15/2016	NE	37.21	NA	NA	NA	404.75		0.0	
		11/22/2016	NE	37.10	NA	NA	NA	404.86		0.0	
		11/29/2016	NE	37.03	NA	NA	NA	404.93		0.0	
Monthly		12/6/2016	NE	37.15	NA	NA	NA	404.81		0.0	
Weekly		12/13/2016	NE	37.34	NA	NA	NA	404.62		0.0	
		12/20/2016	NE	37.08	NA	NA	NA	404.88		0.0	
		12/27/2016	NE	37.07	NA	NA	NA	404.89		0.5	
ROST-4-PZ(F)											
Weekly	442.12	10/10/2016	NE	37.84	NA	NA	NA	404.28	407.59 - 397.59 (34.53 - 44.53)	0.0	
		10/18/2016	NE	37.73	NA	NA	NA	404.39		0.0	
		10/25/2016	NE	37.67	NA	NA	NA	404.45		0.0	
Monthly		11/1/2016	NE	37.55	NA	NA	NA	404.57		0.0	
Weekly		11/8/2016	NE	37.55	NA	NA	NA	404.57		0.0	
		11/15/2016	NE	37.44	NA	NA	NA	404.68		0.0	
		11/22/2016	NE	37.32	NA	NA	NA	404.80		0.0	
		11/29/2016	NE	37.26	NA	NA	NA	404.86		0.0	
Monthly		12/6/2016	NE	37.45	NA	NA	NA	404.67		0.0	
Weekly		12/13/2016	NE	37.12	NA	NA	NA	405.00		0.4	
		12/20/2016	NE	37.32	NA	NA	NA	404.80		0.0	
		12/27/2016	NE	37.28	NA	NA	NA	404.84		0.0	
ROST-4-PZ(G)											
Weekly	442.13	10/10/2016	NE	38.21	NA	NA	NA	403.92	407.85 - 397.85 (34.28 - 44.28)	0.0	
		10/18/2016	NE	38.10	NA	NA	NA	404.03		0.0	
		10/25/2016	NE	38.14	NA	NA	NA	403.99		0.0	
Monthly		11/1/2016	NE	37.88	NA	NA	NA	404.25		0.0	
Weekly		11/8/2016	NE	37.90	NA	NA	NA	404.23		0.0	
		11/15/2016	NE	37.71	NA	NA	NA	404.42		0.0	
		11/22/2016	NE	37.70	NA	NA	NA	404.43		10.0	
		11/29/2016	NE	37.59	NA	NA	NA	404.54		54.3	
Monthly		12/7/2016	NE	37.80	NA	NA	NA	404.33		0.4	
Weekly		12/13/2016	NE	37.77	NA	NA	NA	404.36		0.0	
		12/20/2016	NE	37.66	NA	NA	NA	404.47		0.1	
		12/27/2016	NE	37.72	NA	NA	NA	404.41		0.0	

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TABLE 1b
4Q16 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	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)	WELL HEAD PID[3] (ppm)	COMMENTS
T-12											
Monthly	444.80	11/1/2016	NE	41.22	NA	NA	NA	403.58	397.97 - 371.97 (46.83 - 72.83)	0.8	*
		12/7/2016	NE	41.00	NA	NA	NA	403.80		15.0	*

NOTES:

1) Elevations presented in this table are relative to the 1988 NAVD datum.

2) The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.

3) PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.

4) btoc = Below Top of Casing; ppm = parts per million; NA = Not Applicable; NE = Not Encountered; NM = Not Measured

5) * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-01							
1Q14	6.77	18.29	1.203	9.97	0.00	-3	
2Q14	6.73	18.29	1.145	4.81	0.07	20	
3Q14	6.76	19.63	1.799	7.12	0.00	-59	
4Q14	6.77	18.93	1.170	8.10	0.02	-36	
1Q15	6.75	17.35	1.127	18.42	0.04	-49	
2Q15	6.78	18.34	1.130	0.59	0.08	-68	
3Q15	6.76	18.63	1.274	8.68	0.13	11	
4Q15	6.92	19.40	1.388	1.57	0.03	35	
1Q16	6.68	17.92	1.344	19.95	0.05	63	
2Q16	6.81	18.71	1.544	9.40	0.00	20	
3Q16	6.79	20.30	1.310	18.10	0.21	52	
4Q16	6.87	18.30	1.460	23.57	0.10	-30	
MW-02							
1Q14	6.61	19.24	1.256	17.36	0.03	-107	
2Q14	6.68	20.81	1.280	16.03	0.09	-105	
3Q14	6.74	21.58	*	8.24	0.00	-99	
4Q14	6.67	20.16	1.438	5.95	0.00	-116	
1Q15	6.80	19.08	1.486	4.72	0.02	-146	
2Q15	6.86	20.39	1.390	0.00	0.07	-115	
3Q15	6.77	21.71	1.317	13.95	0.01	-106	
4Q15	6.74	21.52	1.454	1.20	0.09	-116	
1Q16	6.84	19.51	1.590	21.92	0.00	-180	
2Q16	6.77	20.24	1.750	13.62	0.00	-314	
3Q16	6.88	21.14	1.293	21.62	0.06	-105	
4Q16	7.09	20.46	1.549	11.28	0.00	-236	
MW-03							
1Q14	6.90	18.04	1.689	8.24	0.01	-125	
2Q14	6.85	19.35	1.267	1.91	0.64	-137	
3Q14	6.95	20.06	*	8.43	0.00	-134	
4Q14	6.92	18.95	1.352	3.87	0.00	-142	
1Q15	7.02	16.89	1.153	7.82	0.00	-152	
2Q15	6.94	19.39	1.542	0.87	0.02	-140	
3Q15	7.02	19.81	1.348	3.45	0.04	-157	
4Q15	7.00	19.49	1.277	4.92	0.01	-148	
1Q16	6.94	18.29	1.302	13.88	0.07	-128	
2Q16	7.00	17.98	1.372	4.51	0.06	-156	
3Q16	7.18	20.71	1.304	16.82	0.05	-182	
4Q16	7.03	19.96	1.571	37.09	0.00	-145	
MW-04							
1Q14	6.84	17.90	1.457	9.36	0.00	-113	
2Q14	6.81	18.59	1.434	7.85	0.00	-99	
3Q14	6.85	19.57	*	8.29	0.00	-116	
4Q14	6.86	18.96	1.315	9.22	0.00	-120	
1Q15	6.92	18.28	1.177	28.46	0.03	-110	
2Q15	7.02	18.60	1.660	16.36	0.00	-77	
3Q15	6.96	20.69	1.230	16.98	0.00	-0.12	
4Q15	6.75	19.08	1.481	1.79	0.06	-103	
1Q16	6.84	17.92	1.296	*	0.04	-101	
2Q16	6.87	18.76	1.524	4.21	0.01	-123	
3Q16	6.97	19.59	1.374	6.42	0.00	-124	
4Q16	6.94	19.30	1.428	20.61	0.06	-142	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-05							
1Q14	6.82	17.75	1.142	28.73	0.00	-119	
2Q14	6.77	20.42	1.165	8.64	0.00	-126	
3Q14	6.79	19.91	*	9.32	0.00	-118	
4Q14	6.83	19.07	1.209	18.04	0.00	-125	
1Q15	6.90	17.89	1.222	17.31	0.00	-132	
2Q15	6.77	19.24	1.410	0.00	0.03	-128	
3Q15	6.76	21.54	1.552	8.31	0.02	-130	
4Q15	6.73	19.70	1.507	0.64	0.01	-119	
1Q16	6.70	17.10	1.503	21.55	0.11	-87	
2Q16	6.84	17.96	1.316	5.62	0.09	-131	
3Q16	6.90	20.29	1.384	8.69	0.06	-154	
4Q16	6.87	19.18	1.341	11.01	0.03	-143	
MW-06A							
1Q14	6.72	17.88	1.418	8.64	0.00	-114	
2Q14	6.58	19.29	1.852	9.74	0.05	-128	
3Q14	6.69	19.70	*	7.30	0.00	-114	
4Q14	6.69	19.14	1.594	24.72	0.02	-123	
1Q15	6.72	17.00	1.698	151.20	0.00	-117	
2Q15	6.78	18.57	1.548	8.35	0.07	-108	
3Q15	6.50	19.73	1.758	27.24	0.00	-99	
4Q15	6.74	19.47	1.486	5.18	0.03	-110	
1Q16	6.60	15.88	1.412	34.53	0.00	-76	
2Q16	6.72	18.75	1.383	10.75	0.00	-125	
3Q16	6.90	20.89	1.172	24.84	0.18	-267	
4Q16	6.87	19.44	1.147	7.93	0.08	-122	
MW-06B							
1Q14	6.96	17.14	1.221	17.54	0.01	-88	
2Q14	6.93	18.42	1.203	1.60	0.14	-117	
3Q14	6.92	19.60	*	9.10	0.00	-89	
4Q14	6.93	18.62	1.235	9.83	0.09	-94	
1Q15	6.99	16.50	1.150	9.27	0.02	-114	
2Q15	6.98	18.06	1.204	9.72	0.09	-86	
3Q15	6.91	20.80	1.266	4.64	0.00	-92	
4Q15	7.05	20.14	0.961	12.33	0.06	-77	
1Q16	6.78	17.51	1.064	1.19	0.03	-55	
2Q16	7.01	18.24	0.947	1.02	0.06	-114	
3Q16	7.08	20.48	0.869	5.50	0.19	-238	
4Q16	7.02	19.74	0.840	3.87	0.11	-111	
MW-06C							
1Q14	7.03	17.02	1.153	6.78	0.00	-118	
2Q14	7.01	17.94	1.102	11.44	0.17	-136	
3Q14	7.08	18.97	*	4.81	0.00	-125	
4Q14	7.07	18.22	1.040	8.88	0.06	-128	
1Q15	7.08	16.29	0.970	7.72	0.02	-133	
2Q15	7.13	18.33	0.953	3.49	0.06	-131	
3Q15	7.08	20.21	0.977	0.61	0.04	-126	
4Q15	6.99	19.17	1.040	0.00	0.14	-110	
1Q16	6.92	17.04	1.056	14.46	0.17	-78	
2Q16	7.03	18.16	1.032	1.57	0.00	-142	
3Q16	7.38	19.99	0.886	9.34	0.09	-278	
4Q16	7.15	20.17	1.008	1.97	0.10	-144	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-06D							
1Q14	7.08	16.88	1.424	6.80	0.00	-127	
2Q14	7.05	17.34	1.424	8.46	0.06	-147	
3Q14	7.01	18.57	*	18.02	0.00	-135	
4Q14	7.04	17.79	1.633	9.39	0.04	-142	
1Q15	7.02	16.32	1.464	93.69	0.00	-139	
2Q15	7.10	17.49	1.270	12.27	0.06	-12	
3Q15	7.03	19.07	1.308	36.17	0.00	-140	
4Q15	6.98	18.86	1.154	4.56	0.16	-118	
1Q16	6.94	17.29	1.129	40.73	0.09	-85	
2Q16	7.00	17.67	1.162	17.65	0.00	-150	
3Q16	7.30	19.71	1.029	10.15	0.13	-253	
4Q16	7.16	19.46	1.241	36.29	0.01	-151	
MW-07							
1Q14	6.88	18.24	1.569	9.44	0.22	-151	
2Q14	6.87	18.98	1.610	8.87	0.07	-89	
3Q14	6.83	20.22	*	9.55	0.05	-93	
4Q14	6.86	19.78	1.606	9.88	0.00	-104	
1Q15	6.91	17.63	1.789	6.77	0.03	-72	
2Q15	6.97	19.00	2.848	8.22	0.06	-64	
3Q15	6.72	20.11	1.585	18.56	0.05	-94	
4Q15	6.66	20.01	1.570	17.35	0.08	-74	
1Q16	6.38	18.84	1.608	*	0.07	-66	
2Q16	6.71	19.24	1.551	27.73	0.09	-81	
3Q16	6.77	19.98	1.668	11.63	0.00	-83	
4Q16	6.78	20.75	1.422	24.73	0.13	-92	
MW-08							
1Q14	6.59	18.12	1.741	8.77	0.11	-130	
2Q14	6.56	18.82	1.777	9.15	0.02	-65	
3Q14	6.72	19.81	*	8.40	0.00	-95	
4Q14	6.76	19.31	1.772	9.39	0.00	-89	
1Q15	6.70	17.67	1.658	9.76	0.00	-84	
2Q15	6.81	19.46	2.652	6.05	0.05	-62	
3Q15	6.62	20.88	1.485	13.30	0.00	-95	
4Q15	6.62	19.72	1.623	9.73	0.12	-74	
1Q16	6.21	18.80	1.472	*	0.08	-64	
2Q16	6.72	20.32	1.682	6.56	0.12	-84	
3Q16	6.80	21.34	1.693	8.41	0.00	-91	
4Q16	6.81	21.24	1.743	31.41	0.07	-107	
MW-09							
1Q14	6.82	17.06	1.322	0.19	0.02	-54	
2Q14	6.75	17.34	1.273	1.20	0.42	-48	
3Q14	6.75	19.67	*	7.03	0.11	-67	
4Q14	6.73	18.98	1.408	8.14	0.20	-58	
1Q15	6.72	16.83	1.377	4.68	0.01	-59	
2Q15	6.73	18.21	1.421	1.59	0.04	-82	
3Q15	6.75	18.00	1.478	11.86	0.18	-76	
4Q15	6.67	20.06	1.635	0.47	0.27	-46	
1Q16	6.71	16.60	1.670	8.76	0.07	-28	
2Q16	6.68	17.49	1.514	5.13	0.00	-70	
3Q16	6.92	20.10	1.277	15.67	0.10	-95	
4Q16	6.79	17.62	1.455	14.71	0.11	-69	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-10							
1Q14	6.85	17.17	1.632	9.92	0.01	-124	
2Q14	6.83	17.96	1.734	9.43	0.06	-162	
3Q14	6.89	19.54	*	7.27	0.00	-123	
4Q14	6.83	19.57	1.849	9.85	0.05	-121	
1Q15	6.84	15.93	1.465	15.33	0.14	-110	
2Q15	6.86	18.48	1.825	7.06	0.08	-102	
3Q15	6.81	18.67	1.971	13.36	0.09	-110	
4Q15	6.74	18.77	1.802	1.16	0.15	-105	
1Q16	6.97	17.41	1.527	13.37	0.05	-97	
2Q16	6.93	18.18	1.801	3.47	0.00	-118	
3Q16	7.15	20.73	1.168	45.23	0.01	-159	
4Q16	7.02	19.36	2.046	16.44	0.07	-125	
MW-11							
1Q14	6.77	16.61	1.587	9.79	0.02	-100	
2Q14	6.74	17.19	1.677	9.63	0.08	-116	
3Q14	6.78	19.16	*	7.69	0.01	-99	
4Q14	6.76	18.19	1.553	12.87	0.00	-121	
1Q15	6.68	15.59	1.604	17.97	0.01	-85	
2Q15	6.79	17.63	1.442	9.62	0.11	-84	
3Q15	6.72	17.47	1.519	13.78	0.11	-82	
4Q15	6.70	18.95	1.534	0.00	0.31	-82	
1Q16	6.76	14.63	1.397	7.59	0.13	-43	
2Q16	6.75	16.36	1.436	7.73	0.16	-90	
3Q16	6.76	19.02	1.245	3.03	0.09	-103	
4Q16	6.82	17.79	1.534	6.21	0.11	-98	
MW-12							
1Q14	6.79	17.15	0.977	4.91	0.14	56	
2Q14	6.80	18.59	0.969	3.00	0.19	98	
3Q14	6.85	19.68	*	9.27	0.20	103	
4Q14	6.84	19.09	1.035	19.80	0.32	202	
1Q15	6.78	16.62	1.091	6.01	0.39	115	
2Q15	6.88	18.04	1.153	5.13	0.15	126	
3Q15	6.90	18.65	0.959	46.10	1.63	161	
4Q15	6.75	19.59	1.230	0.96	1.62	224	
1Q16	6.87	17.51	1.335	47.05	0.21	79	
2Q16	6.83	18.02	1.602	8.72	0.21	91	
3Q16	6.83	19.63	1.240	7.49	0.12	140	
4Q16	6.95	19.17	1.295	5.98	0.08	87	
MW-13							
1Q14	6.75	19.40	1.449	9.22	0.00	-107	
2Q14	6.71	20.02	1.459	3.40	0.00	-115	
3Q14	6.84	20.85	1.494	9.21	0.00	-124	
4Q14	6.72	19.48	1.491	7.92	0.00	-115	
1Q15	6.88	18.38	1.424	84.72	0.05	-110	
2Q15	6.81	20.23	1.415	5.22	0.03	-108	
3Q15	6.82	19.49	1.100	4.91	0.02	-0.12	
4Q15	6.64	20.13	1.393	2.61	0.04	-113	
1Q16	6.74	18.55	1.389	*	0.21	-103	
2Q16	6.69	19.00	1.731	10.77	0.19	-111	
3Q16	6.79	20.66	1.366	6.20	0.00	-264	
4Q16	6.81	20.22	1.441	26.44	0.12	-119	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-14							
1Q14	6.66	16.71	1.156	3.11	0.03	-90	
2Q14	6.74	19.27	1.371	2.17	0.65	-107	
3Q14	6.80	21.27	1.093	3.92	0.06	-117	
4Q14	6.74	18.78	1.204	4.11	0.00	-107	
1Q15	6.83	17.81	1.591	2.41	0.03	-92	
2Q15	6.77	19.34	1.490	1.59	0.03	-84	
3Q15	6.80	18.99	0.957	9.92	0.05	-0.11	
4Q15	6.58	19.70	1.768	18.19	0.08	-49	
1Q16	6.84	18.40	0.888	*	0.00	-97	
2Q16	6.68	19.91	1.319	10.63	0.00	-92	
3Q16	6.85	21.48	1.044	11.52	0.00	-204	
4Q16	6.79	17.71	1.118	13.86	0.00	-73	
MW-16							
1Q14	6.55	16.61	1.579	9.95	0.05	-66	
2Q14	6.47	19.14	1.466	4.29	0.04	-95	
3Q14	6.55	20.83	*	9.79	0.00	-87	
4Q14	6.61	20.95	1.474	12.38	0.05	-99	
1Q15	6.61	16.64	1.627	1.20	0.01	-98	
2Q15	6.63	19.06	1.792	0.00	0.02	-104	
3Q15	6.64	19.49	1.749	8.67	0.14	-108	
4Q15	6.61	20.15	2.005	9.55	0.28	-41	
1Q16	6.76	17.39	1.980	*	0.01	-75	
2Q16	6.52	17.77	2.817	0.72	0.00	73	
3Q16	6.71	19.40	1.380	4.89	0.37	-25	
4Q16	6.83	19.49	1.540	10.15	0.18	-41	
MW-22							
1Q14	6.78	19.54	1.115	7.57	0.04	-104	
2Q14	6.75	21.83	1.066	8.03	0.05	-108	
3Q14	6.77	23.02	*	7.61	0.00	-106	
4Q14	6.74	20.55	1.242	10.99	0.00	-108	
1Q15	6.86	18.34	1.124	27.97	0.02	-113	
2Q15	6.71	20.51	1.068	7.14	0.05	-102	
3Q15	6.65	23.12	1.030	15.64	0.15	-121	
4Q15	6.62	22.06	1.363	3.05	0.18	-90	
1Q16	6.58	19.24	1.378	14.96	0.00	-82	
2Q16	6.68	21.14	1.453	13.48	0.03	-135	
3Q16	6.81	22.19	1.280	9.21	0.09	-95	
4Q16	6.76	21.13	1.492	21.54	0.03	-91	
MW-23							
1Q15	6.69	16.88	1.168	20.72	0.00	-92	Added to Interim GW Monitoring Program 1Q15
2Q15	6.82	19.15	0.943	8.16	0.00	-111	
3Q15	6.75	18.81	1.096	20.33	0.00	-115	
4Q15	6.62	19.04	1.211	0.47	0.05	-98	
1Q16	6.66	16.86	1.212	25.28	0.05	-94	
2Q16	6.65	17.54	1.201	19.93	0.05	-134	
3Q16	6.78	20.46	1.077	20.76	0.02	-113	
4Q16	6.65	19.14	1.265	34.01	0.03	-93	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-24							
1Q14	6.75	16.98	1.338	8.15	0.08	91	
2Q14	6.69	18.35	1.264	1.63	1.34	98	
3Q14	6.79	19.63	*	7.14	1.03	132	
4Q14	6.81	19.40	1.321	7.42	1.89	146	
1Q15	6.88	16.76	1.340	1.60	0.97	67	
2Q15	6.85	18.63	1.374	1.21	0.24	100	
3Q15	6.86	18.93	1.383	17.98	1.00	-107	
4Q15	6.83	22.02	1.398	0.00	4.73	134	
1Q16	6.78	16.61	1.538	5.06	0.82	109	
2Q16	6.84	17.98	1.793	11.30	1.92	102	
3Q16	6.98	19.99	1.164	5.73	0.53	97	
4Q16	6.92	20.22	1.313	10.10	0.30	103	
MW-25							
4Q14	6.73	20.05	1.786	20.33	0.00	-98	Added to Interim GW Monitoring Program 4Q14
1Q15	6.83	17.88	1.759	9.14	0.00	-86	
2Q15	6.94	18.87	1.945	4.87	0.00	-69	
3Q15	6.79	20.10	1.280	12.85	0.00	-0.11	
4Q15	6.79	19.39	1.337	12.26	0.02	-96	
1Q16	6.37	19.02	1.100	*	0.02	-89	
2Q16	6.93	20.48	1.299	10.24	0.04	-132	
3Q16	7.14	20.30	1.102	6.31	0.00	-135	
4Q16	6.96	21.08	1.219	6.03	0.10	-140	
MW-26							
4Q14	6.81	19.62	1.023	9.02	0.06	53	Added to Interim GW Monitoring Program 4Q14
1Q15	6.73	17.24	0.841	8.43	0.16	166	
2Q15	6.90	19.04	1.036	0.00	0.10	89	
3Q15	6.84	18.46	0.947	4.19	0.19	184	
4Q15	7.00	21.58	0.914	0.34	0.84	294	
1Q16	6.82	17.87	1.305	25.15	0.29	63	
2Q16	6.88	17.83	1.162	5.78	0.17	70	
3Q16	6.83	20.95	1.155	31.29	0.28	200	
4Q16	6.88	19.74	1.340	14.49	0.11	-26	
MW-27							
4Q14	6.74	18.71	1.322	7.04	1.11	-62	Added to Interim GW Monitoring Program 4Q14
1Q15	6.89	15.73	1.176	8.67	2.45	-22	
2Q15	6.84	18.94	1.130	22.35	0.43	77	
3Q15	6.82	19.25	1.144	26.42	1.49	11	
4Q15	6.70	19.13	1.085	2.26	0.60	34	
1Q16	6.84	17.44	1.105	11.90	0.66	-4	
2Q16	6.82	16.27	1.125	12.26	0.10	-38	
3Q16	6.91	18.99	0.933	21.55	1.57	-52	
4Q16	6.99	18.57	0.949	32.47	0.86	-24	
MW-28							
4Q14	6.75	18.72	1.420	8.32	0.00	-95	Added to Interim GW Monitoring Program 4Q14
1Q15	6.70	16.96	2.112	5.76	0.01	-75	
2Q15	6.64	18.28	2.240	1.68	0.00	-100	
3Q15	6.57	20.80	2.785	22.65	0.00	-91	
4Q15	6.62	19.68	2.308	0.00	0.12	69	
1Q16	6.71	18.64	2.592	8.98	0.03	0.00	
2Q16	6.70	17.97	2.266	5.11	0.02	34	
3Q16	6.65	19.51	1.892	19.22	0.00	137	
4Q16	6.75	18.43	1.855	10.58	0.00	-14	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-114R (P-114)							
1Q14	7.13	18.07	1.228	47.51	2.25	-86	
2Q14	7.36	20.07	1.245	18.06	1.85	-91	
3Q14	7.98	22.69	*	8.46	3.54	-110	
4Q14	7.30	20.31	1.382	29.21	2.65	-112	
1Q15	7.26	18.07	1.228	384.90	2.94	-94	
2Q15	6.97	20.49	1.224	74.05	2.30	-83	
3Q15	7.31	67.14	1.177	33.39	2.40	-0.1	
4Q15	6.81	21.19	1.256	4.26	0.03	-146	Well replaced during 3Q15
1Q16	6.86	19.48	0.842	*	0.02	-129	
2Q16	6.68	19.47	1.527	7.43	0.00	-145	
3Q16	6.82	22.88	1.115	8.81	0.00	-295	
4Q16	6.83	21.50	1.094	16.25	0.03	-127	
P-54							
1Q14	6.74	16.08	1.147	7.53	1.40	108	
2Q14	6.69	17.89	1.065	2.80	2.28	140	
3Q14	6.81	19.11	*	1.04	2.50	117	
4Q14	6.76	18.30	1.432	4.50	2.79	173	
1Q15	6.89	15.57	1.339	8.49	3.85	100	
2Q15	6.79	17.29	1.465	11.72	1.96	146	
3Q15	6.87	18.33	1.256	10.69	4.84	135	
4Q15	6.81	17.71	1.193	1.45	3.89	111	
1Q16	6.92	14.29	1.250	7.21	4.72	77	
2Q16	6.81	16.52	1.229	7.40	5.39	233	
3Q16	7.03	18.86	1.080	11.23	5.69	116	
4Q16	6.82	18.16	1.180	5.41	4.98	194	
P-55R							
1Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-56							
1Q14	6.66	21.79	1.248	1.13	0.05	-100	
2Q14	6.68	20.97	1.227	1.79	0.00	-92	
3Q14	6.66	25.62	*	8.34	0.04	-107	
4Q14	6.65	23.68	1.243	6.14	0.00	-110	
1Q15	6.75	21.54	1.445	17.99	0.04	-112	
2Q15	6.65	22.76	1.411	1.42	0.00	-102	
3Q15	6.79	24.25	1.709	6.80	0.05	-180	
4Q15	6.85	23.88	2.069	20.89	0.01	-121	
1Q16	6.81	18.90	1.641	38.50	0.00	-127	
2Q16	6.93	22.69	1.996	30.25	0.00	-145	
3Q16	7.08	22.75	1.874	7.47	0.00	-287	
4Q16	7.09	24.16	1.861	19.56	0.00	-144	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-57							
1Q14	6.66	20.29	1.271	9.67	0.00	-178	
2Q14	6.61	21.26	1.309	19.65	0.04	-106	
3Q14	6.63	23.22	*	9.69	0.00	-108	
4Q14	6.62	21.75	1.414	8.91	0.00	-120	
1Q15	6.65	21.28	1.207	20.64	0.00	-85	
2Q15	6.58	22.71	1.319	1.80	0.08	-93	
3Q15	6.65	23.79	1.693	2.14	0.00	-0.13	
4Q15	6.52	25.05	1.810	4.08	0.15	-103	
1Q16	6.47	20.45	1.422	*	0.05	-106	
2Q16	6.76	24.03	1.608	6.43	0.01	-135	
3Q16	6.92	24.53	1.563	3.80	0.00	-159	
4Q16	6.88	23.87	1.511	6.36	0.05	-143	
P-58							
1Q14	6.55	18.92	1.201	8.00	0.04	-163	
2Q14	6.53	19.72	1.187	11.10	0.11	-65	
3Q14	6.60	22.73	*	7.88	0.02	-86	
4Q14	6.58	21.05	1.441	6.77	0.00	-89	
1Q15	6.47	19.54	1.511	3.21	0.00	-56	
2Q15	6.47	21.90	1.519	4.53	0.09	-48	
3Q15	6.52	26.26	1.719	3.29	0.00	-0.11	
4Q15	6.47	22.79	1.693	2.59	0.08	-91	
1Q16	6.38	19.13	1.281	*	0.03	-91	
2Q16	6.61	24.46	2.012	16.95	0.00	-110	
3Q16	6.63	24.94	2.160	10.60	0.00	-124	
4Q16	6.69	24.48	2.648	15.56	0.05	-123	
P-59							
1Q14	6.57	17.87	1.486	11.88	0.04	-203	
2Q14	6.61	18.96	1.514	17.69	0.18	-92	
3Q14	6.61	23.29	*	6.10	0.00	-105	
4Q14	6.62	21.78	1.361	8.52	0.00	-103	
1Q15	6.58	21.25	1.580	9.89	0.02	-98	
2Q15	6.62	24.48	1.476	9.55	0.05	-87	
3Q15	6.71	29.00	1.723	17.21	0.00	-0.14	
4Q15	6.54	26.13	1.773	0.96	0.04	-114	
1Q16	6.50	21.82	1.350	*	0.06	-100	
2Q16	6.59	27.97	1.498	3.74	0.01	-134	
3Q16	6.67	29.15	1.878	10.43	0.00	-150	
4Q16	6.67	27.37	1.525	8.42	0.03	-121	
P-66							
1Q14	6.44	18.56	1.221	9.76	0.04	-87	
2Q14	6.45	21.06	1.203	7.90	0.00	-83	
3Q14	6.58	22.67	1.065	7.24	0.07	-89	
4Q14	6.50	19.76	1.098	10.97	0.00	-86	
1Q15	6.61	19.11	1.164	35.14	0.03	-74	
2Q15	6.50	20.30	1.058	7.24	0.01	-69	
3Q15	6.50	19.84	0.979	5.92	0.07	-0.09	
4Q15	6.43	21.10	1.201	4.27	0.16	-83	
1Q16	6.45	18.92	1.035	*	0.00	-78	
2Q16	6.48	20.88	1.201	9.19	0.00	-106	
3Q16	6.59	24.88	1.283	8.94	0.01	-260	
4Q16	6.63	21.18	1.419	13.50	0.02	-111	

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WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-68							
1Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q16	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-74							
1Q14	6.61	16.61	0.686	14.25	0.00	-103	
2Q14	7.36	16.48	0.316	10.22	4.52	-3	
3Q14	6.84	20.10	0.260	9.50	0.06	-133	
4Q14	7.26	18.44	0.165	9.64	7.10	68	
1Q15	6.60	17.61	0.691	5.70	0.00	-129	
2Q15	7.49	19.23	1.885	5.99	3.60	-15	
3Q15	7.02	22.91	0.145	26.68	7.56	0.14	
4Q15	6.37	20.62	0.374	0.00	0.15	-69	
1Q16	7.82	8.66	0.898	5.01	11.96	38	
2Q16	7.07	19.67	0.183	16.93	0.00	-51	
3Q16	6.94	21.04	0.171	8.45	0.01	-286	
4Q16	7.02	21.43	0.298	1.78	0.00	-185	
P-93A							
1Q14	6.99	19.48	1.872	24.97	4.65	-74	
2Q14	7.02	20.74	2.104	18.21	4.97	-60	
3Q14	6.87	21.30	*	10.96	4.31	-50	
4Q14	6.77	20.15	1.949	9.66	3.50	-56	
1Q15	6.84	18.54	1.953	5.56	0.04	-111	
2Q15	6.73	21.51	1.599	9.30	0.18	-7	
3Q15	6.71	22.11	1.620	16.25	0.01	-0.06	
4Q15	6.68	20.18	1.677	16.30	0.17	-3	
1Q16	6.45	17.36	1.489	*	0.22	-21	
2Q16	6.68	20.38	1.733	4.87	0.20	-12	
3Q16	6.77	21.63	1.795	1.59	0.01	103	
4Q16	6.79	20.53	1.563	5.17	2.09	105	
P-93B							
1Q14	6.84	15.74	1.605	4.53	1.62	-87	
2Q14	6.93	18.96	1.454	3.43	3.47	-76	
3Q14	6.88	20.02	*	9.67	0.98	-108	
4Q14	6.87	18.71	1.642	2.85	0.18	-115	
1Q15	6.89	15.29	1.583	3.04	0.67	-94	Initial sample
	6.91	15.48	1.651	4.58	0.02	-105	Confirmation sample
2Q15	6.82	18.50	1.399	14.68	2.13	-93	
3Q15	6.88	18.65	1.420	0.75	0.04	-0.12	
4Q15	6.93	19.48	1.397	91.70	0.37	-93	
1Q16	6.82	17.15	1.268	*	0.07	-110	
2Q16	6.89	18.15	1.553	10.49	1.31	-120	
3Q16	6.89	19.50	1.448	3.64	0.53	-114	
4Q16	6.94	18.70	1.357	8.97	0.88	-99	

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TABLE 2
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-93C							
1Q14	6.94	15.83	1.298	0.12	1.88	-67	
2Q14	6.89	18.31	1.308	4.81	0.95	-57	
3Q14	6.92	19.88	*	2.59	2.03	-74	
4Q14	6.91	18.37	1.320	8.93	0.00	-81	
1Q15	6.90	18.02	1.377	73.30	0.00	-104	Initial sample
	7.04	16.91	1.289	4.15	0.10	-190	Confirmation Sample
2Q15	7.19	20.18	1.144	0.45	0.06	-83	
3Q15	7.02	21.17	1.221	0.41	0.00	-0.18	
4Q15	6.87	20.38	1.262	0.69	0.20	-93	
1Q16	6.87	17.91	1.193	*	1.95	-93	
2Q16	7.06	19.69	1.115	12.53	0.00	-99	
3Q16	7.01	20.10	1.235	51.32	0.01	-241	
4Q16	6.93	19.28	1.278	7.37	0.15	-72	
P-93D							
1Q14	6.93	17.14	1.378	0.58	0.04	-274	
2Q14	6.97	17.61	1.378	4.61	0.00	-103	
3Q14	7.01	20.51	*	5.34	0.00	-127	
4Q14	6.91	18.72	1.725	5.38	0.00	-99	
1Q15	6.92	17.30	1.424	6.10	0.05	-122	Initial sample
	6.98	17.38	1.573	7.01	0.00	-90	Confirmation sample
2Q15	6.99	16.10	1.931	48.24	0.82	-89	
3Q15	7.04	18.98	1.405	0.60	0.20	-0.16	
4Q15	7.08	19.30	1.568	2.17	0.09	-194	
1Q16	6.87	16.45	1.403	*	0.18	-98	
2Q16	7.08	17.84	1.617	7.95	0.16	-224	
3Q16	7.21	18.93	1.455	3.07	0.01	-142	
4Q16	7.12	20.21	1.478	28.86	2.05	-125	
ROST-3-MW							
1Q14	6.95	16.14	0.939	9.80	0.00	-116	
2Q14	6.89	18.62	0.974	5.54	0.00	-127	
3Q14	6.88	19.20	*	9.54	0.00	-128	
4Q14	6.83	18.00	1.127	7.26	0.00	-117	
1Q15	6.92	16.56	1.151	4.72	0.01	-118	
2Q15	6.82	17.70	1.152	5.33	0.04	-123	
3Q15	6.95	18.83	1.373	12.56	0.00	-130	
4Q15	6.77	18.58	1.219	2.22	0.07	-118	
1Q16	6.90	17.72	1.239	7.09	0.00	-100	
2Q16	6.68	17.29	1.711	11.39	0.00	-93	
3Q16	6.75	19.03	1.406	8.68	0.13	-103	
4Q16	7.01	17.52	1.283	8.93	0.00	-152	
ROST-4-PZ(C)							
1Q14	6.64	17.08	1.888	3.68	0.01	-79	
2Q14	6.61	20.07	2.351	5.94	0.09	-80	
3Q14	6.78	19.88	*	5.00	0.01	-104	
4Q14	6.75	19.09	1.662	5.57	0.00	-114	
1Q15	6.72	16.56	2.578	5.92	0.07	-101	
2Q15	6.77	19.34	2.204	0.00	0.06	-165	
3Q15	6.87	19.64	2.232	11.48	0.00	-125	
4Q15	6.90	19.49	2.211	2.41	0.02	-113	
1Q16	7.02	17.91	1.971	9.64	0.00	-155	
2Q16	7.14	18.50	1.907	19.38	0.03	-178	
3Q16	7.12	20.30	1.553	6.54	0.10	-174	
4Q16	7.31	18.20	1.575	8.38	0.00	-241	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2

SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
T-12							
1Q14	6.91	16.38	1.183	1.47	0.03	-111	
2Q14	6.94	17.65	1.176	6.70	0.00	-128	
3Q14	6.85	21.13	*	3.45	0.01	-128	
4Q14	6.82	20.43	1.123	4.23	0.00	-125	
1Q15	6.78	19.19	1.126	4.19	0.03	-103	
2Q15	6.76	20.42	1.079	1.51	0.00	-107	
3Q15	6.75	22.31	0.943	1.77	0.04	-0.12	
4Q15	6.64	23.19	1.232	0.91	0.09	-125	
1Q16	6.47	19.69	0.995	*	0.13	-101	
2Q16	6.82	24.20	1.227	4.24	0.00	-147	
3Q16	6.90	26.05	1.206	7.74	0.00	-280	
4Q16	6.91	26.26	1.268	12.90	0.04	-135	

NOTES:

1) Field parameters were collected using an In-Situ Troll 9500.

2) NM = Not Measured

3) * = Equipment malfunction. Results are suspect.

4) Negative parameter readings for Turbidity and DO are recorded as zero.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-01	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.01	0.00066	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-011215	1/12/2015		42.73	NE	0.035	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW1-ROX-100615	10/6/2015		40.83	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW1-ROX-010816	1/8/2016		40.93	NE	<0.025	0.0029	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW1-ROX-041216	4/12/2016		40.35	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.025	0.00063 J	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW1-ROX-101316	10/13/2016	48.80 - 58.80	38.79	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-02	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.01	0.0238	<0.005	<0.005	0.0254	0.0096	0.0015 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0106	<0.000015	<0.001	<0.001	<0.001	0.0043	<0.002	<0.002
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.01	0.0214	<0.005	0.0136	0.0208	0.0077	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.009	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.01	0.0102 J	<0.005	<0.005	0.0194 J	0.0073 J	0.0013 J J	<0.005	<0.001	<0.002	<0.001	<0.002	0.008 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.02 UJ	0.0132	<0.01	<0.01	0.0145	0.0057 J	0.0011 J	<0.01	<0.002	<0.004	<0.002	<0.004	0.0063 J	<0.000014	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004
	MW2-ROX-011615	1/16/2015		44.1	NE	<0.01	0.0278	0.00045 J	<0.005	0.0185	0.0091	0.0016 J	<0.005	<0.001	<0.002	<0.001	0.0052	0.0109	<0.000015	0.0008 J	0.00084 J	0.00099 J	<0.001	<0.002	<0.002
	MW2-ROX-041315	4/13/2015		45.56	NE	<0.01	0.0283	<0.005	<0.005	<0.005	0.0052	0.00084 J	0.00028 J	<0.001	<0.002	<0.001	<0.002	0.0064	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW2-ROX-071315	7/13/2015		44.53	NE	<0.01	0.0204	<0.005	<0.005	<0.005	0.006	0.0012 J	<0.0023 U	<0.001	<0.002	<0.001	<0.002	0.006	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW2-ROX-101215	10/12/2015		42.15	NE	0.054	0.035	<0.002	0.048 J	<0.002	0.0056	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0065	<0.000041	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	MW2-ROX-011416	1/14/2016		42.04	NE	0.034 J	0.018	<0.002	0.0089 J	0.0057	0.0039	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0046	<0.000029	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	MW2-ROX-041316	4/13/2016		41.59	NE	0.028 J	0.017	<0.002	0.019 J	<0.002	0.0078	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0087	<0.00003	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	MW2-ROX-071416	7/14/2016		40.79	NE	<0.05	0.012	<0.002	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0066	UJ	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	MW2-ROX101316	10/13/2016	49.87 - 59.87	40.10	NE	<0.025	0.013	<0.001	0.013 J	0.0036	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-03	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.01	0.0015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.01	0.00062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.01 UJ	0.0005	<0.005	<0.005	<0.005	<0.005	0.00083 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-011515	1/15/2015		29.65	NE	<0.01	0.00037 J	<0.005	<0.005	<0.005	0.00049 J	0.0009 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-041015	4/10/2015		31.16	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW3-ROX-100915	10/9/2015		27.98	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW3-ROX-010716	1/7/2016		27.92	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW3-ROX-040616	4/6/2016		27.07	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	0.0007 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW3-ROX-070816	7/8/2016		26.51	NE	0.03	0.00042 J	<0.001	0.0047 J	<0.001	0.00092 J	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW3-ROX100716	10/7/2016	34.67 - 44.67	25.79	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-04	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.01	2.01	<0.005	<0.005	0.00058 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.01	0.553	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.01	1.88	<0.005	<0.005	<0.005	<0.05	<0.05	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.05	0.815	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.000014	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	MW4-ROX-012115	1/21/2015		41.27	NE	<0.01	0.0902	<0.005	<0.005	<0.005	<0.005	0.00065 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	<0.01	0.0702	<0.005	<0.005	<0.005	<0.005	0.00066 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-071415	7/14/2015		41.30	NE	<0.01	0.063	<0.005	<0.005	0.00066 J	0.00051 J	0.00074 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW4-ROX-101915	10/19/2015		39.44	NE	<0.025	0.0036	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW4-ROX-011316	1/13/2016		39.10	NE	<0.025	0.12	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW4-ROX-041916	4/19/2016		38.50	NE	<0.025	0.0012	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW4-ROX-071416	7/14/2016		37.85	NE	<0.025	0.0008 J	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW4-ROX-100616	10/6/2016	45.06 - 55.06	37.18	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-05	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.01	0.002	<0.005	<0.005	<0.005	0.002 J	0.0064	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-041014	4/10/2014		30.09	NE	0.021 J	0.0037	<0.005	<0.005	<0.005	0.0017 J	0.0062	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.01	0.001	<0.005	<0.005	<0.005	0.0011 J	0.0046 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.01 UJ	0.028	<0.005	<0.005	<0.005	0.00083 J	0.0049 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.01	0.003	<0.005	<0.005	<0.005	0.0014 J	0.0059	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-041315	4/13/2015		30.97	NE	<0.01	0.0391	<0.005	<0.005	<0.005	0.0014 J	0.0051	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	0.0031 J	<0.00032 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW5-ROX-101215	10/12/2015		27.53	NE	<0.025	0.0088	<0.001	<0.025	<0.001	<0.001	0.0035	<0.001	<0.001	<0.001	0.00079 J	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW5-ROX-011416	1/14/2016		27.19	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW5-ROX-040616	4/6/2016		26.80	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW5-ROX-070816	7/8/2016		26.28	NE	0.011 J	<0.001	<0.001	<0.025	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW5-ROX-101016	10/10/2016	33.97 - 43.97	25.47	NE	<0.025	<0.001	<0.001	<0.025	<0.001	0.00077 J	0.0044	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-06A	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-040814	4/8/2014		32.16	NE	0.11	0.0011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	0.116	0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6A-ROX-011116	1/11/2016		29.36	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6A-ROX-040716	4/7/2016		29.07	NE	0.023 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6A-ROX-101116	10/11/2016	34.83 - 44.83	27.51	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-06B	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.01	0.0009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6B-ROX-100715	10/7/2015		29.80	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000033	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0.025	<0.001	<0.001	0.005 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6B-ROX-040716	4/7/2016		29.11	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6B-ROX-101116	10/11/2016	64.05 - 69.05	27.56	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

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						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-06C	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.01	0.0021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6C-ROX-100715	10/7/2015		29.60	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6C-ROX-010816	1/8/2016		29.31	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6C-ROX-040716	4/7/2016		28.91	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6C-ROX-071116	7/11/2016		28.30	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6C-ROX-101016	10/10/2016		27.37	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-06D	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.01	0.0064	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.01	0.00032 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-010816	1/8/2016		29.59	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-010816-DUP	1/8/2016		29.59	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-040716	4/7/2016		28.76	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-101016	10/10/2016		27.26	NE	<0.025	0.0041	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW6D-ROX-101016-DUP	10/10/2016		27.26	NE	<0.025	0.0044	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-07	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<25	1490	<13	<13	<13	<13	<13	<13	<2.5	<5	<2.5	<5	<13	<0.000015	<2.5	<2.5	<2.5	<2.5	<5	<5
	MW7-ROX-041614	4/16/2014		43.79	NE	<50	1390	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000015	<5	<5	<5	<5	<10	<10
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.01	1290	<0.005	<0.005	0.0036 J J	0.0022 J J	0.0022 J J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0015 J J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.01	1390	<0.005	<0.005	0.0034 J J	0.0023 J J	0.0022 J J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0015 J J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW7-ROX-101614	10/16/2014		41.31	NE	<50	1130	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<50	984	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	MW7-ROX-012215	1/22/2015		43.45	NE	<10	821	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<10	799	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	MW7-ROX-042115	4/21/2015		44.63	NE	<0.5	1110	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.000014	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	<0.5	1160	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.000014	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
	MW7-ROX-071515	7/15/2015		43.54	NE	<50	1300	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	<50	1370	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	MW7-ROX-101915	10/19/2015		41.43	NE	<250	1000	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.000029	<10	<10	<10	<10	<50	<10
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<250	990	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.000029	<10	<10	<10	<10	<50	<10
	MW7-ROX-011416	1/14/2016		41.02	NE	<130	740	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.000029	<5	<5	<5	<5	<25	<5
	MW7-ROX-011416-DUP	1/14/2016		41.02	NE	<130	700	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.000029	<5	<5	<5	<5	<25	<5
	MW7-ROX-041916	4/19/2016		40.68	NE	<50	1100	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000029	<2	<2	<2	<2	<10	<2
	MW7-ROX-041916-DUP	4/19/2016		40.68	NE	<50	1100	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000029	<2	<2	<2	<2	<10	<2
	MW7-ROX-071416	7/14/2016		39.99	NE	<130	670	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.000029	<5	<5	<5	<5	<25	<5
	MW7-ROX-071416-DUP	7/14/2016		39.99	NE	<130	680	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.000029	<5	<5	<5	<5	<25	<5
	MW7-ROX-100616	10/6/2016	42.92 - 52.92	39.24	NE	<250	910	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.00003	<10	<10	<10	<10	<50	<10
	MW7-ROX-100616-DUP	10/6/2016		39.24	NE	<250	840	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.00003	<10	<10	<10	<10	<50	<10
MW-08	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<25	721	<13	<13	<13	<13	<13	<13	<2.5	<5	<2.5	<5	<13	<0.000014	<2.5	<2.5	<2.5	<2.5	<5	<5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<25	748	<13	<13	<13	<13	<13	<13	<2.5	<5	<2.5	<5	<13	<0.000015	<2.5	<2.5	<2.5	<2.5	<5	<5
	MW8-ROX-041614	4/16/2014		34.73	NE	<20	862	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<20	1060	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000015	<2	<2	<2	<2	<4	<4
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.01 UJ	280	<0.005 UJ	<0.005 UJ	0.0069 J	0.0042 J J	0.0028 J J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.0032 J J	UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ
	MW8-ROX-101614	10/16/2014		32.23	NE	<10	486	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	MW8-ROX-012215	1/22/2015		34.22	NE	<10	764	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	MW8-ROX-042115	4/21/2015		35.41	NE	<0.5	1100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.000014	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
	MW8-ROX-071515	7/15/2015		34.07	NE	<50	879	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	MW8-ROX-101915	10/19/2015		32.30	NE	<130	580	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<5	<5	<5	<5	<25	<5
	MW8-ROX-011416	1/14/2016		31.79	NE	<50	300	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<2	<2	<2	<2	<10	<2
	MW8-ROX-041916	4/19/2016		31.45	NE	<25	480	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<1	<1	<1	<1	<5	<1
	MW8-ROX-071416	7/14/2016		30.80	NE	<50	310	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<2	<2	<2	<2	<10	<2
	MW8-ROX-100616	10/6/2016	33.60 - 43.60	29.99	NE	<130	630	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<5	<5	<5	<5	<25	<5
MW-09	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.01	0.0044	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW9-ROX-100815	10/8/2015		42.64	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW9-ROX-011316	1/13/2016		42.63	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW9-ROX-041216	4/12/2016		41.98	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW9-ROX-071316	7/13/2016		40.93	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW9-ROX-101316	10/13/2016	46.45 - 56.45	40.39	NE	<0.025	0.0024	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-10	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	0.0174	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-040714	4/7/2014		45.00	NE	0.0684	0.0018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	0.0032	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-070915	7/9/2015		44.93	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.00048 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW10-ROX-100915	10/9/2015		42.79	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW10-ROX-011316	1/13/2016		42.53	NE	0.023 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000032	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW10-ROX-041116	4/11/2016		41.88	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW10-ROX-071316	7/13/2016		41.00	NE	<0.025	0.0006 J	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW10-ROX-101216	10/12/2016	44.43 - 54.43	40.27	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-11	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.01	0.0014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.00021 U	<0.001	<0.002	<0.001	0.00058 J	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW11-ROX-100815	10/8/2015		40.15	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW11-ROX-011216	1/12/2016		40.33	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW11-ROX-041116	4/11/2016		39.49	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW11-ROX-071316	7/13/2016		38.59	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW11-ROX-101216	10/12/2016	41.66 - 51.66	37.93	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-12	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-040615	4/6/2015		43.75	NE	0.0265	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW12-ROX-100815	10/8/2015		40.54	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW12-ROX-011116	1/11/2016		40.98	NE	0.015 J	<0.001	<0.001	0.0043 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW12-ROX-040716	4/7/2016		39.82	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW12-ROX-071216	7/12/2016		38.89	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW12-ROX-101116	10/11/2016	41.92 - 51.92	38.85	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-13	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.01	0.00058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.01 UJ	0.00037 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.01	0.00046 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	0.0016 J	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW13-ROX-100515	10/5/2015		27.34	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW13-ROX-010716	1/7/2016		27.16	NE	0.019 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW13-ROX-040816	4/8/2016		26.81	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW13-ROX-071116	7/11/2016		26.01	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW13-ROX100716	10/7/2016	25.57 - 35.57	25.16	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-14	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.01	0.0017	<0.005	<0.005	<0.005	<0.005	0.00046 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	0.00042 J	0.00047 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	0.00063 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-011615	1/16/2015		33.58	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	0.00053 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-070915	7/9/2015		34.06	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.00081 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW14-ROX-101315	10/13/2015		31.88	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW-14-ROX-010816	1/8/2016		31.64	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000028	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW14-ROX-041416	4/14/2016		31.32	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW14-ROX-071116	7/11/2016		30.59	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW14-ROX-101416	10/14/2016	33.42 - 43.42	29.62	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-16	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.01	0.00034 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-070915	7/9/2015		44.26	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.0003 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW16-ROX-100715	10/7/2015		41.83	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW16-ROX-011216	1/12/2016		41.99	NE	0.016 J	0.00092 J	<0.001	<0.025	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW16-ROX-040816	4/8/2016		41.17	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW16-ROX-071216	7/12/2016		39.93	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW16-ROX-101116	10/11/2016	37.06 - 47.06	39.64	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-22	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	<0.01	1.47	<0.005	0.0804	0.0357	0.0128	0.0147	<0.005	<0.001	<0.002	<0.001	<0.002	0.0094	<0.000015	<0.001	<0.001	<0.001	0.0028	<0.002	<0.002
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.01	1.58	<0.005	0.0815	0.0355	0.0127	0.0146	<0.005	<0.001	<0.002	<0.001	<0.002	0.0094	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0911 J	1.7	<0.005	0.0334	0.0331	0.0128	0.0152	<0.005	<0.001	<0.002	<0.001	<0.002	0.0094	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.01 UJ	1.56	<0.005	0.0287	0.0319	0.0123	0.0144	<0.005	0.00046 J	<0.002	<0.001	<0.002	0.0089	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.01	1.76	<0.005	0.0185 J	0.0349 J	0.013 J	0.0137 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0085 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.1 UJ	1.62	<0.05	<0.05	0.0165 J	0.0066 J	0.0096 J	<0.05	<0.01	<0.02	<0.01	<0.02	0.0045 J	<0.000014	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	MW22-ROX-011615	1/16/2015		42.19	NE	<0.1	1.51	<0.05	<0.05	0.0373 J	0.0133 J	0.0152 J	<0.05	<0.01	<0.02	<0.01	<0.02	0.0117 J	<0.000015	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	MW22-ROX-041415	4/14/2015		43.71	NE	<0.01	1.62	<0.005	<0.005	0.0112	0.0105	0.0123	<0.005	<0.001	<0.002	<0.001	<0.002	0.0078	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW22-ROX-071515	7/15/2015		42.64	NE	<0.2	2.92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.000014	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04
	MW22-ROX-101415	10/14/2015		40.54	NE	<0.5	0.8	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.00003	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	MW22-ROX-011516	1/15/2016		40.42	NE	<0.5	1.2	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.000029	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	MW22-ROX-011516-DUP	1/15/2016		40.42	NE	<0.5	1.1	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.000029	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	MW22-ROX-041316	4/13/2016		39.56	NE	<0.63	1.2	<0.025	<0.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.00003	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025
	MW22-ROX-041316-DUP	4/13/2016		39.56	NE	<0.63	1.2	<0.025	<0.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.000029	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025
	MW22-ROX-071516	7/15/2016		38.97	NE	<0.13	0.061	<0.005	<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.000031	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	MW22-ROX-071516-DUP	7/15/2016		38.97	NE	<0.13	0.062	<0.005	<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00003	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	MW22-ROX-101716	10/17/2016	37.88 - 47.88	38.17	NE	<0.25	0.31	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00003	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
	MW22-ROX-101716-DUP	10/17/2016		38.17	NE	<0.25	0.31	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00003	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.025	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.000019	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00029 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW23-ROX-100515	10/5/2015		28.89	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW-23-ROX-010716	1/7/2016		28.78	NE	0.014 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW-23-ROX-040616	4/6/2016		27.96	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW-23-ROX-070816	7/8/2016		27.54	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW23-ROX-BP-100716	10/7/2016	29.02 - 39.02	26.64	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-24	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-011315	1/13/2015		43.17	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.00019 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW24-ROX-100715	10/7/2015		41.45	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW24-ROX-011316	1/13/2016		41.44	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW24-ROX-040816	4/8/2016		40.79	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW24-ROX-071216	7/12/2016		39.67	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW24-ROX-101116	10/11/2016	38.89 - 48.89	39.19	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<20	501	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	MW25-ROX-012215	1/22/2015		38.45	NE	<2.5	62.8	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.5	<0.25	<0.5	<1.3	<0.000014	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.5	78.7	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.000014	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
	MW25-ROX-071515	7/15/2015		38.40	NE	<2	71.9	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.2	<0.4	<1	<0.000014	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4
	MW25-ROX-101915	10/19/2015		36.55	NE	<2.5	11	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.000031	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
	MW25-ROX-011416	1/14/2016		36.12	NE	<0.5	2.2	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.000029	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	MW25-ROX-041916	4/19/2016		35.67	NE	<0.025	0.99	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.25	1.2	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.000028	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
	MW25-ROX-100616	10/6/2016	35.59 - 45.59	34.27	NE	<0.05	0.37	<0.002	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00003	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW26-ROX-100615	10/6/2015		39.19	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW26-ROX-010716	1/7/2016		39.55	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW26-ROX-040616	4/6/2016		38.44	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW26-ROX-071216	7/12/2016		37.74	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000032	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW26-ROX-101016	10/10/2016	38.15 - 48.15	37.13	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.01	0.00033 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW27-ROX-041015	4/10/2015		43.22	NE	0.0027 J	0.00035 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW27-ROX-100815	10/8/2015		40.32	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW27-ROX-011316	1/13/2016		40.68	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW27-ROX-041116	4/11/2016		39.73	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW-27-ROX-071316	7/13/2016		38.94	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW27-ROX-101216	10/12/2016	39.79 - 49.79	38.50	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.01	0.0081	<0.005	<0.005	<0.005	0.00083 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.00049 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.01	0.0541	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.01	0.0189	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.01	0.0668	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	MW28-ROX-101215	10/12/2015		40.04	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW28-ROX-011416	1/14/2016		39.98	NE	0.018 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW28-ROX-041216	4/12/2016		39.20	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.025	0.0098	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	MW28-ROX-101316	10/13/2016	33.61 - 43.61	37.86	NE	0.01 J	0.0066	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-54	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-040914	4/9/2014		42.80	NE	<0.01	0.00081	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-071114	7/10/2014		41.71	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-100814	10/8/2014		40.88	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-011415	1/14/2015		41.79	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-041015	4/10/2015		43.20	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-070915	7/9/2015		42.25	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P54-ROX-100915	10/9/2015		40.20	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000028	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P54-ROX-011216	1/12/2016		40.22	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P54-ROX-041216	4/12/2016		39.42	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P54-ROX-071216	7/12/2016		38.44	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P54-ROX-101216	10/12/2016	38.00 - 63.00	37.85	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
P-56	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	<0.01	0.0895	<0.005	<0.005	0.0033 J	0.0023 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0018 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-041414	4/14/2014		47.32	NE	<0.01	0.128	<0.005	<0.005	0.0069	0.0046 J	0.0014 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0034 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-070814	7/8/2014		45.97	NE	0.0626 J	0.127 J	<0.005	0.0132 J	0.0159 J	0.0073 J	0.0034 J J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0058 J	<0.000014	<0.001	<0.001	<0.001	0.0018 J	<0.002	<0.002
	P56-ROX-101314	10/13/2014		45.05	NE	<0.01 UJ	0.107	<0.005	<0.005	0.0062	0.004 J	0.0012 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0035 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-011915	1/19/2015		46.58	NE	<0.01	0.0991	<0.005	<0.005	0.004 J	0.0037 J	0.00077 J	0.004 J	<0.001	<0.002	<0.001	0.0045	0.003 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-041515	4/15/2015		48.05	NE	<0.01	0.0965	<0.005	<0.005	0.0028 J	0.0042 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0033 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-071015	7/10/2015		47.34	NE	<0.01	0.0683	<0.005	<0.005	<0.005	0.0034 J	0.00068 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0027 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P56-ROX-101415	10/14/2015		44.85	NE	0.15	0.033	<0.001	0.034	0.0012	0.0018	<0.001	0.0011	<0.001	<0.001	0.0022	<0.001	0.0013	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P56-ROX-011116	1/11/2016		44.78	NE	0.069 J	0.03	<0.005	0.032 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.000031	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	P56-ROX-041416	4/14/2016		43.73	NE	<0.13	0.036	<0.005	<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00003	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	P56-ROX-071216	7/12/2016		42.87	NE	<0.05	0.024	<0.002	<0.05	<0.002	0.0021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00003	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	P56-ROX-101716	10/17/2016	40.82 - 65.82	42.35	NE	0.047	0.019	<0.001	0.014 J	0.0018	0.0022	0.00076 J	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
P-57	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	<10	261	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P57-ROX-041514	4/15/2014		46.70	NE	<0.01 UJ	384	<0.005	0.0055	0.0151	0.0131	0.0147	<0.005	<0.001	<0.002	<0.001	<0.002	0.0114	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P57-ROX-070814	7/8/2014		45.95	NE	0.0497 J	384	<0.005 UJ	<0.005 UJ	0.011 J	0.0091 J	0.0066 J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.0081 J	UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.0441 J	377	<0.005 UJ	0.0086 J	0.0114 J	0.0097 J	0.007 J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	0.0085 J	UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<20 UJ	220	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	P57-ROX-101414	10/14/2014		45.00	NE	<20 UJ	255	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	<5	107	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000015	<0.5	<0.5	<0.5	<0.5	<1	<1
	P57-ROX-042015	4/20/2015		48.73	NE	<0.5	134	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.000013	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
	P57-ROX-071315	7/13/2015		47.81	NE	<10	138	<5	<5	<5	<5	<5	0.852 J	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	P57-ROX-101515	10/15/2015		45.56	NE	<25	140	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000029	<1	<1	<1	<1	<5	<1
	P57-ROX-011216	1/12/2016		45.61	NE	<25	160	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000029	<1	<1	<1	<1	<5	<1
	P57-ROX-041816	4/18/2016		44.80	NE	<6.3	73	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.000054 p	<0.25	<0.25	<0.25	<0.25	<1.3	<0.25
	P57-ROX-071316	7/13/2016		44.02	NE	<13	70	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.000029	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5
	P57-ROX-101816	10/18/2016	44.19 - 54.19	43.17	NE	<13	71	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.000031	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-58	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	<10	496	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P58-ROX-041514	4/15/2014		45.66	NE	<0.01 UJ	782	<0.005	0.0056 J	0.0216 J	0.0185 J	0.0396 J	<0.005	0.0013 J	<0.002	<0.001	<0.002	0.0116 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P58-ROX-071814	7/18/2014		43.80	NE	<20	406	<10	<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	P58-ROX-101514	10/15/2014		43.14	NE	<5	493	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P58-ROX-012315	1/23/2015		45.32	NE	<10	304	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P58-ROX-042015	4/20/2015		46.67	NE	<0.1	325	<0.05	<0.05	0.0087 J	0.0094 J	0.0242 J	<0.05	<0.01	<0.02	<0.01	<0.02	0.0051 J	<0.000016	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	P58-ROX-071415	7/14/2015		45.54	NE	<10	266	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	P58-ROX-101615	10/16/2015		43.45	NE	<50	430	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000029	<2	<2	<2	<2	<10	<2
	P58-ROX-011316	1/13/2016		43.18	NE	<50	510	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000029	<2	<2	<2	<2	<10	<2
	P58-ROX-041816	4/18/2016		42.68	NE	<25	440	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000028	<1	<1	<1	<1	<5	<1
	P58-ROX-071516	7/15/2016		42.05	NE	<50	250	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<2	<2	<2	<2	<10	<2
	P58-ROX-101816	10/18/2016		41.05	NE	<50	340	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000031	<2	<2	<2	<2	<10	<2
P-59	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	<0.2	15.9	<0.1	<0.1	0.0165 J	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.000015	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04
	P59-ROX-041514	4/15/2014		48.60	NE	<0.01 UJ	14.8	<0.005	0.0253	0.0181	0.0035 J	0.0014 J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0029 J	<0.000015	<0.001	<0.001	<0.001	0.0023	<0.002	<0.002
	P59-ROX-070814	7/8/2014		47.69	NE	0.057 J	12.4	<0.005	0.0169 J	0.0251 J	0.0073 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0046 J J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P59-ROX-101414	10/14/2014		46.18	NE	<0.01 UJ	12	<0.005	<0.005	0.0278 J	0.0097 J	0.0024 J J	<0.005	<0.001	<0.002	<0.001	<0.002	0.0043 J J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P59-ROX-011915	1/19/2015		47.42	NE	<1	13.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000015	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	P59-ROX-041615	4/16/2015		48.83	NE	<0.1	9.43	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.000014	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	P59-ROX-071315	7/13/2015		47.85	NE	<0.25	3.08	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.025	<0.05	<0.025	<0.05	<0.13	<0.000014	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
	P59-ROX-101515	10/15/2015		45.75	NE	<1.3	7.2	<0.05	<1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.000029	<0.05	<0.05	<0.05	<0.05	<0.25	<0.05
	P59-ROX-011216	1/12/2016		46.10	NE	<0.63	5.4	<0.025	<0.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.000029	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025
	P59-ROX-041816	4/18/2016		44.28	NE	<0.5	4.9	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.000031	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	P59-ROX-071316	7/13/2016		44.01	NE	<0.63	4.2	<0.025	<0.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.000029	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025
	P59-ROX-101816	10/18/2016		43.39	NE	<1.3	8.7	<0.05	<1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.000031	<0.05	<0.05	<0.05	<0.05	<0.25	<0.05
P-66	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	<0.01	0.008	<0.005	<0.005	0.016	0.0205	0.0053	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-041114	4/11/2014		37.10	NE	<0.01	0.0052	<0.005	<0.005	0.0129	0.0168	0.0041 J	<0.005	0.00052 J	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-070714	7/7/2014		35.60	NE	<0.01 UJ	0.0429	<0.005	<0.005	0.0112	0.0147	0.0023 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-101414	10/14/2014		34.48	NE	<0.01 UJ	0.0212	<0.005	<0.005	0.0135	0.0173	0.0036 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-011615	1/16/2015		36.62	NE	<0.01	0.0083	<0.005	<0.005	0.0162	0.021	0.0048 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.01	0.0076	<0.005	<0.005	0.0147	0.0198	0.0045 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-041415	4/14/2015		38.27	NE	<0.01	0.0223	<0.005	<0.005	0.0127	0.0181	0.0039 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	<0.01	0.0214	<0.005	<0.005	0.0124	0.0177	0.004 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-070815	7/8/2015		37.24	NE	<0.01 UJ	0.0404	<0.005	<0.005 UJ	0.0124	0.0164	0.0027 J	<0.005	0.00035 J	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	<0.01 UJ	0.0424	<0.005	<0.005 UJ	0.0126	0.0167	0.0027 J	<0.005	0.00038 J	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P66-ROX-101315	10/13/2015		34.84	NE	<0.025	0.0094	<0.001	<0.025	<0.001	0.008	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P-66-ROX-010816	1/8/2016		34.64	NE	<0.025	0.0013	<0.001	<0.025	<0.001	0.01	0.0019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000028	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P66-ROX-041516	4/15/2016		34.33	NE	0.015 J	0.0044	<0.001	<0.025	0.0052	0.0088	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P66-ROX-071116	7/11/2016		33.58	NE	<0.025	0.0037	<0.001	<0.025	0.0071	0.012	0.0028	<0.001	0.00054 J	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P66-ROX-101416	10/14/2016		32.61	NE	<0.025	0.0069	<0.001	0.0049 J	0.004	0.0076	0.0038	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

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						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-74	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	<0.01	4.45	<0.005	<0.005	0.0252	0.0031 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0031 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-041514	4/15/2014		44.74	NE	0.0398 J	0.0349	<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-070814	7/8/2014		43.02	NE	<0.01 UJ	0.309	<0.005	<0.005	0.0138	0.0014 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0018 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-101414	10/14/2014		41.48	NE	<0.01 UJ	0.00068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-011915	1/19/2015		43.47	NE	<0.01	3.13	<0.005	<0.005	0.0163	0.0022 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0029 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-041515	4/15/2015		44.61	NE	<0.01	0.032	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.00033 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-071015	7/10/2015		43.28	NE	0.011	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P74-ROX-101415	10/14/2015		41.75	NE	0.31	1.2	<0.005	<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.000029	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	P74-ROX-011116	1/11/2016		40.67	NE	0.023 J	0.0013	<0.001	0.003 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P74-ROX-041516	4/15/2016		40.40	NE	0.016 J	0.028	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P74-ROX-071216	7/12/2016		39.56	NE	<0.025	0.023	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P74-ROX-101416	10/14/2016	44.43 - 69.43	39.44	NE	<0.025	0.017	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
P-93A	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<5	136	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93A-ROX-041714	4/17/2014		47.41	NE	<5	132	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93A-ROX-071814	7/18/2014		45.70	NE	<10	170	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<10	174	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	P93A-ROX-101514	10/15/2014		45.06	NE	<5	293	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	<5	277	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.025 UJ	168	<0.001 UJ	<0.005 UJ	0.0023 J	0.0069 J	0.0186 J	<0.002 UJ	<0.001 UJ	0.00078 J J	<0.001 UJ	<0.002 UJ	0.0064 J	UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.005 UJ	<0.001 UJ
	P93A-ROX-041715	4/17/2015		47.02	NE	<0.01	139	<0.005	<0.005	0.00077 J	0.0048 J	0.014	<0.005	<0.001	<0.002	<0.001	<0.002	0.0036 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93A-ROX-071315	7/13/2015		45.93	NE	<1	315	<0.5	<0.5	<0.5	<0.5	<0.5	0.0476 J	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000014	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	P93A-ROX-101515	10/15/2015		43.69	NE	<25	260	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<1	<1	<1	<1	<5	<1
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<25	250	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000029	<1	<1	<1	<1	<5	<1
	P-93A-ROX-011216	1/12/2016		43.73	NE	<50	430	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<2	<2	<2	<2	<10	<2
	P-93A-ROX-011216-DUP	1/12/2016		43.73	NE	<50	450	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.000029	<2	<2	<2	<2	<10	<2
	P93A-ROX-041916	4/19/2016		43.08	NE	<6.3	66	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.000028	<0.25	<0.25	<0.25	<0.25	<1.3	<0.25
	P93A-ROX-041916-DUP	4/19/2016		43.08	NE	<6.3	70	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.00003	<0.25	<0.25	<0.25	<0.25	<1.3	<0.25
	P93A-ROX-071316	7/13/2016		42.20	NE	<2.5	18	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.00003	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
	P93A-ROX-071316-DUP	7/13/2016		42.20	NE	<2.5	20	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.00003	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
	P93A-ROX-101816	10/18/2016	43.07 - 53.07	41.35	NE	<0.5	2.6	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.000031	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
	P93A-ROX-101816-DUP	10/18/2016		41.35	NE	<0.5	3.3	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.00003	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
P-93B	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<10	242	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<10	293	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P93B-ROX-041714	4/17/2014		47.46	NE	<5	134	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000015	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<5	126	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.01 UJ	175	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	0.00042 J J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ
	P93B-ROX-101514	10/15/2014		45.15	NE	<5 UJ	241	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93B-ROX-012315	1/23/2015		47.24	NE	<10	564	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	<10	623	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000015	<1	<1	<1	<1	<2	<2
	P93B-ROX-021915	2/19/2015		47.24	NE	<250	625	<0.5	<2.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.000019	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.01	400	<0.005	<0.005	<0.005	<0.005	0.001 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<10	388	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0.000014	<1	<1	<1	<1	<2	<2
	P93B-ROX-070915	7/9/2015		47.74	NE	<50 UJ	497 J	<25	<25 UJ	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0.000014	<5	<5	<5	<5	<10	<10
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<20 UJ	371 J	<10	<10 UJ	<10	<10	<10	<10	<2	<4	<2	<4	<10	<0.000014	<2	<2	<2	<2	<4	<4
	P93B-ROX-101515	10/15/2015		45.18	NE	<63	1200	<2.5	<63	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.000032	<2.5	<2.5	<2.5	<2.5	<13	<2.5
	P93B-ROX-011316	1/13/2016		44.96	NE	<25	280	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000029	<1	<1	<1	<1	<5	<1
	P93B-ROX-041916	4/19/2016		44.54	NE	<25	240	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.000029	<1	<1	<1	<1	<5	<1
	P93B-ROX-071516	7/15/2016		43.65	NE	<25	100	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<1	<1	<1	<1	<5	<1
	P93B-ROX-101816	10/18/2016	74.60 - 76.60	42.73	NE	<13	86	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.000031	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-93C	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.01	1.55	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.01	0.00075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<1	102	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000015	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	P93C-ROX-021915	2/19/2015		48.22	NE	<25	75.4	<1	<5	<1	<1	<1	<2	<1	<2	<1	<2	<1	<0.000019	<1	<1	<1	<1	<5	<1
	P93C-ROX-041615	4/16/2015		48.22	NE	<1	55.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000014	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.01	0.0365	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00025 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93C-ROX-101415	10/14/2015		44.91	NE	<0.025	0.011	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P-93C-ROX-010816	1/8/2016		44.68	NE	<0.025	0.04	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000028	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P93C-ROX-041816	4/18/2016		44.06	NE	<0.025	0.068	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P93C-ROX-071216	7/12/2016		43.37	NE	0.016 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P93C-ROX-101816	10/18/2016	92.47 - 97.47	42.49	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
P-93D	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.01	0.0012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00062 J	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	0.0044
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.01	0.0022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00069 J	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	0.0164
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.01	0.00064	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.1	36.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.000014	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	P93D-ROX-110414	11/4/2014		45.14	NE	<0.01	19.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	0.0079
	P93D-ROX-012315	1/23/2015		42.28	NE	<2.5	62.6	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.5	<0.25	<0.5	<1.3	<0.000015	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5
	P93D-ROX-021915	2/19/2015		42.28	NE	<130	240	<2.5	<13	<2.5	<2.5	<2.5	<5	<2.5	<5	<2.5	<5	<2.5	<0.000019	<2.5	<2.5	<2.5	<2.5	<13	<2.5
	P93D-ROX-042015	4/20/2015		48.52	NE	<1	131	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000014	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	P93D-ROX-070915	7/9/2015		47.96	NE	<5 UJ	21.2	<2.5	<2.5 UJ	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<0.000014	<0.5	<0.5	<0.5	<0.5	<1	<1
	P93D-ROX-101515	10/15/2015		45.28	NE	<2.5	15	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.00003	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
	P93D-ROX-011316	1/13/2016		45.10	NE	<2.5	14	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.000033	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
	P93D-ROX-041916	4/19/2016		44.61	NE	<1.3	9.5	<0.05	<1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.000029	<0.05	<0.05	<0.05	<0.05	<0.25	<0.05
	P93D-ROX-071516	7/15/2016		43.83	NE	<0.025	0.086	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P93D-ROX-101716	10/17/2016	125.75 - 127.75	42.78	NE	<0.025	0.023	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
P-114	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	0.142	0.0013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P114-ROX-042114	4/21/2014		32.22	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P114-ROX-071814	7/18/2014		30.87	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P114-ROX-101714	10/17/2014		29.43	NE	<0.01	<0.0005	<0.005	<0.005	0.0052 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	0.0006 J J	<0.002
	P114-ROX-012115	1/21/2015		31.53	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P114-ROX-041715	4/17/2015		NM	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	P114-ROX-070815	7/8/2015		29.16	NE	<0.01 UJ	<0.0005	<0.005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	0.0015 J	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	28.15	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P114R-ROX-010716	1/7/2016				<0.025	0.0004 J	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P114R-ROX-040816	4/8/2016				<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P114R-ROX-070816	7/8/2016				0.017 J	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	P114R-ROX-100716	10/7/2016	23.01 - 33.01	23.89	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000031	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																	
						Acetone	Benzene	Bromobenzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]	4.2 [1]	0.35 [3]	0.7 [3]	0.7 [3]	0.7 [1]	0.100 [1]		0.07 [1]			0.0002 [1]	0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
ROST-3-MW	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.01	0.004	<0.005	<0.005	0.0012 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.01	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.01	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.01 UJ	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	<0.01	0.0022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.0251	0.0057	<0.005	<0.005	<0.005	<0.005	<0.005	0.00037 J	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00066 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST3MW-ROX-101215	10/12/2015		40.29	NE	0.017 J	<0.001	<0.001	0.0064 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	ROST3MW-ROX-011416	1/14/2016		40.30	NE	<0.025	0.0012	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	ROST3MW-ROX-041216	4/12/2016		39.69	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000029	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	<0.025	0.0017	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000032	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	ROST3MW-ROX-101316	10/13/2016	37.81 - 47.81	38.19	NE	<0.025	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
ROST-4-PZ(C)	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.01	0.0015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.01	0.0019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.01	0.0751	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.01 UJ	0.039	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	0.016	0.0013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.01	0.0694	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZ-ROX-071315	7/13/2015		42.59	NE	<0.01	0.0683	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0011 U	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	ROST4PZC-ROX-101215	10/12/2015		40.35	NE	0.022 J	0.071	<0.001	0.0097 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
	ROST4PZC-ROX-011516	1/15/2016		40.54	NE	<0.05	0.059	<0.002	<0.05	<0.002	<0.002	<0.002	0.001 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000029	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	ROST4PZC-ROX-041316	4/13/2016		39.61	NE	<0.05	0.05	<0.002	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000029	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	ROST4PZC-ROX-071516	7/15/2016		38.93	NE	<0.05	0.044	<0.002	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000031	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
	ROST4PZC-ROX-101316	10/13/2016	34.95 - 44.95	38.45	NE	<0.05	0.025	<0.002	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000031	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
T-12	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	<0.01	2.48	<0.005	<0.005	0.0083	0.0029 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	T12-ROX-041514	4/15/2014		46.72	NE	<0.01 UJ	2.07	<0.005	0.017	0.0062	0.0024 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0018 J	<0.000015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	T12-ROX-070814	7/8/2014		45.13	NE	0.0658 J	2.14	<0.005	0.0094	0.0096	0.0039 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0024 J	<0.000014	<0.001	<0.001	<0.001	0.0022	<0.002	<0.002
	T12-ROX-101714	10/17/2014		44.40	NE	<0.1	1.83	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.000014	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	<0.1	2.02	<0.05	<0.05	0.0115 J	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.000015	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	T12-ROX-041515	4/15/2015		46.73	NE	<0.01	1.69	<0.005	<0.005	0.0094	0.0045 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	0.0025 J	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
	T12-ROX-071015	7/10/2015		46.09	NE	<0.1	2.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.000014	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
	T12-ROX-101515	10/15/2015		43.72	NE	<0.25	2.5	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.000029	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
	T12-ROX-011216	1/12/2016		44.13	NE	<0.25	1.5	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00003	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
	T12-ROX-041516	4/15/2016		42.07	NE	<0.13	1.4	<0.005	<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00003	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005
	T12-ROX-071216	7/12/2016		41.50	NE	<0.25	1.6	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.000029	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
	T12-ROX-101716	10/17/2016	46.83 - 72.83	41.19	NE	<0.25	1.7	<0.01	<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0065 J	<0.01	<0.01	<0.000031	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-01	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0018	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0035	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00082 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW1-ROX-011215	1/12/2015		42.73	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00084 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00059 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100615	10/6/2015		40.83	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW1-ROX-010816	1/8/2016		40.93	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.00078 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW1-ROX-041216	4/12/2016		40.35	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0016 J
	MW1-ROX-101316	10/13/2016	48.80 - 58.80	38.79	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-02	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	0.426	<0.005	<0.005	0.102	<0.005	<0.001	0.0663	0.133	<0.005	<0.001	0.0099	<0.005	<0.005	<0.001	0.264	0.156	<0.005	0.486	0.0304	0.516
	MW2-ROX-041014	4/10/2014		44.66	NE	0.478	<0.005	<0.005	0.0816	<0.005	<0.001	0.0474	0.106	<0.005	<0.001	0.0072	<0.005	<0.005	<0.001	0.181	0.121	<0.005	0.444	0.0275	0.472
	MW2-ROX-071414	7/14/2014		43.13	NE	0.955	<0.005	<0.005	0.0966 J	<0.005	<0.001	0.0792 J	0.112 J	<0.005	<0.001	0.0113 J	<0.005	<0.005	<0.001	0.341 J	0.15 J	<0.005	0.764	0.0845	0.804
	MW2-ROX-101014	10/10/2014		42.49	NE	0.386	<0.01	<0.01 UJ	0.0675	<0.01	<0.002	0.0512	0.0867	<0.01	<0.002	0.006	<0.01	<0.01	<0.002	0.135	0.0901	<0.01	0.26	0.0183	0.278
	MW2-ROX-011615	1/16/2015		44.1	NE	0.358	0.0031 J	0.0039 J	0.0823	0.0061	<0.001	0.0626	0.107	0.00052 J	<0.001	0.0121	0.0051	0.0044 J	0.0015	0.0895	0.102	<0.005	0.207	0.0206	0.228
	MW2-ROX-041315	4/13/2015		45.56	NE	0.547	<0.005	<0.005	0.0613	<0.005	0.0013	0.068	0.0802	<0.005	<0.001	0.0103	<0.005	<0.005	<0.001	0.185	0.0882	<0.005	0.549	0.0495	0.598
	MW2-ROX-071315	7/13/2015		44.53	NE	0.984	<0.005	<0.005	0.0683	<0.005	<0.001	0.0878	0.0983	<0.005	<0.001	0.0103	<0.0015 U	<0.005	<0.001	0.206	0.109	<0.005	0.719	0.0689	0.78
	MW2-ROX-101215	10/12/2015		42.15	NE	0.42	<0.01	<0.05	0.082	<0.05	<0.002	0.039	0.088	<0.002	<0.002	0.013	<0.002	<0.002	<0.002	0.1	0.09	<0.05	0.26	0.023	0.28
	MW2-ROX-011416	1/14/2016		42.04	NE	0.22	<0.01	<0.05	0.049	<0.05	<0.002	0.027	0.063	<0.002	<0.002	0.012	<0.002	<0.002	<0.002	0.05	0.072	<0.05	0.11	0.01	0.12
	MW2-ROX-041316	4/13/2016		41.59	NE	0.33	<0.01	<0.05	0.075	<0.05	<0.002	0.029	0.099	<0.002	<0.002	0.018	<0.002	<0.002	<0.002	0.077	0.1	<0.05	0.23	0.017	0.24
	MW2-ROX-071416	7/14/2016		40.79	NE	0.26	<0.01	<0.05	0.079	<0.05	<0.002	0.048	0.095	<0.002	<0.002	0.016	<0.002	<0.002	<0.002	0.079	0.1	<0.05	0.16	0.021	0.18
	MW2-ROX101316	10/13/2016	49.87 - 59.87	40.10	NE	0.13	<0.005	<0.025	0.036	<0.025	<0.001	0.016	0.044	<0.001	<0.001	0.01	<0.001	<0.001	<0.001	0.017	0.044	<0.025	0.056	0.0057	0.061
MW-03	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.001	<0.005	<0.005	0.0004 J	<0.005	0.0031	<0.005	0.00053 J	<0.005	<0.001	0.00046 J	<0.005	<0.005	<0.001	0.0012 J	<0.005	<0.005 UJ	0.00095 J	<0.001	<0.00095 U
	MW3-ROX-011515	1/15/2015		29.65	NE	0.00039 J	<0.005	<0.005	0.00065 J	<0.005	0.0101	<0.005	0.0018 J	<0.005	<0.001	0.00062 J	<0.005	<0.005	<0.001	0.00071 J	0.00031 J	<0.005	0.0014	<0.001	0.0015
	MW3-ROX-041015	4/10/2015		31.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0012	<0.005	0.00042 J	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	0.00046 J
	MW3-ROX-071015	7/10/2015		30.01	NE	0.00039 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	0.00062 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00087 J	<0.001	0.00087 J
	MW3-ROX-100915	10/9/2015		27.98	NE	0.0011	<0.005	<0.025	0.007	<0.025	<0.001	<0.001	0.0036	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	0.00073 J	<0.025	0.055	0.0028 J	0.058
	MW3-ROX-010716	1/7/2016		27.92	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW3-ROX-040616	4/6/2016		27.07	NE	0.0031	<0.005	<0.025	0.014	<0.025	0.0097	<0.001	0.025	<0.001	<0.001	0.039	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.1	0.006	0.11
	MW3-ROX-070816	7/8/2016		26.51	NE	0.0012	<0.005	<0.025	0.016	<0.025	0.0054	<0.001	0.034	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	0.00062 J	<0.025	0.076	0.0042 J	0.08
	MW3-ROX100716	10/7/2016	34.67 - 44.67	25.79	NE	<0.001	<0.005	<0.025	0.0042	<0.025	0.0036	<0.001	0.0085	<0.001	<0.001	0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0089	0.001 J	0.01
MW-04	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	0.00048 J	<0.005	<0.005	0.0021 J	<0.005	<0.001	<0.005	0.0026 J	<0.005	<0.001	0.0037	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0132	0.0049	0.0181
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.001	<0.005	<0.005	0.00059 J	<0.005	<0.001	<0.005	0.00081 J	<0.005	<0.001	0.00099 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0027	0.00039 J	0.0031
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.01	<0.005	<0.005	<0.05	<0.005	<0.001	<0.05	<0.05	<0.005	<0.001	0.006 J	<0.005	<0.005	<0.001	<0.05	<0.05	<0.005	<0.01	<0.01	0.0055 J
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.005	<0.025	<0.025	0.0026 J	<0.025	0.0379	<0.025	<0.025	<0.025	<0.005	<0.005	<0.025 UJ	<0.025	<0.005	0.0037 J	<0.025	<0.025 UJ	0.0086	0.0022 J	0.0108
	MW4-ROX-012115	1/21/2015		41.27	NE	<0.001	<0.005	<0.005	0.0012 J	<0.005	0.0536	<0.005	0.00093 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	0.00045 J	<0.005	<0.005	0.006	0.0013	0.0074
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	0.00051 J	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.005	0.0013 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	0.00045 J	<0.005	<0.005	0.0042	0.0011	0.0053
	MW4-ROX-071415	7/14/2015		41.30	NE	0.00057 J	<0.005	<0.005	0.0026 J	<0.005	<0.001	<0.005	0.0029 J	<0.005	<0.001	0.0033	<0.005	<0.005	<0.001	0.00058 J	0.00024 J	<0.005	0.0082	0.0016	0.0098
	MW4-ROX-101915	10/19/2015		39.44	NE	<0.001	<0.005	<0.025	0.0016	<0.025	0.011	<0.001	0.0015	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0041 J	0.001 J	0.0051
	MW4-ROX-011316	1/13/2016		39.10	NE	0.00066 J	<0.005	<0.025	0.0017	<0.025	0.012	<0.001	0.0021	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0047 J	0.0011 J	0.0058
	MW4-ROX-041916	4/19/2016		38.50	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.00092 J
	MW4-ROX-071416	7/14/2016		37.85	NE	<0.001	<0.005	<0.025	0.00053 J	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0016 J
	MW4-ROX-100616	10/6/2016	45.06 - 55.06	37.18	NE	<0.001	<0.005	<0.025	0.0011	<0.025	0.0073	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0019 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-05	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.001	<0.005	<0.005	0.00097 J	<0.005	0.0282	<0.005	<0.005	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0081	0.0045	0.0127
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0344	0.001 J	<0.005	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	0.00052 J	<0.005	<0.005	0.0013	0.00095 J	0.0023
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.001	<0.005	<0.005	0.00049 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	0.00033 J	<0.005	<0.005	0.002	0.00073 J	0.0027
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.001	<0.005	<0.005 UJ	0.0012 J	<0.005	0.019	<0.005	<0.005	<0.005	<0.001	0.0015	<0.005	<0.005	<0.001	0.00058 J	<0.005	<0.005	0.0027	0.0012 J	0.0039
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.001	<0.005	<0.005	0.0057	<0.005	0.0215	<0.005	0.0018 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	0.00037 J	0.00031 J	<0.005	0.0076	0.0015	0.009
	MW5-ROX-041315	4/13/2015		30.97	NE	0.0005 J	<0.005	<0.005	0.0076	<0.005	0.0349	<0.005	0.0056	<0.005	<0.001	0.00057 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0088	0.00051 J	0.0093
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.001	<0.005	<0.005	0.00097 J	<0.005	0.0413	<0.005	<0.005	<0.005	<0.001	0.00032 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0019	0.00032 J	0.0022
	MW5-ROX-101215	10/12/2015		27.53	NE	0.0012	<0.005	<0.025	0.0031	<0.025	0.021	<0.001	<0.001	<0.001	<0.001	0.0019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0044 J	<0.005	0.0044 J
	MW5-ROX-011416	1/14/2016		27.19	NE	<0.001	<0.005	<0.025	0.0017	<0.025	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0018 J
	MW5-ROX-040616	4/6/2016		26.80	NE	<0.001	<0.005	<0.025	0.0019	<0.025	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0025 J	<0.005	0.003 J
	MW5-ROX-070816	7/8/2016		26.28	NE	<0.001	<0.005	<0.025	0.001	<0.025	0.0084	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0017 J	<0.005	0.0021 J
	MW5-ROX-101016	10/10/2016	33.97 - 43.97	25.47	NE	<0.001	<0.005	<0.025	0.0011	<0.025	0.0079	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.0017 J	0.00077 J	0.0025 J
MW-06A	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0108	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0103	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00086 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0148	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0077	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6A-ROX-011116	1/11/2016		29.36	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6A-ROX-040716	4/7/2016		29.07	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0043	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6A-ROX-101116	10/11/2016	34.83 - 44.83	27.51	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-06B	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0069	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0047	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0031	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0048	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-100715	10/7/2015		29.80	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6B-ROX-040716	4/7/2016		29.11	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0029	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6B-ROX-101116	10/11/2016	64.05 - 69.05	27.56	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)			0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-06C	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00068 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00057 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-100715	10/7/2015		29.60	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6C-ROX-010816	1/8/2016		29.31	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6C-ROX-040716	4/7/2016		28.91	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6C-ROX-071116	7/11/2016		28.30	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6C-ROX-101016	10/10/2016	84.95 - 89.95	27.37	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-06D	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00061 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00094 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00054 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.00062 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6D-ROX-010816	1/8/2016		29.59	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6D-ROX-010816-DUP	1/8/2016		29.59	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6D-ROX-040716	4/7/2016		28.76	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6D-ROX-101016	10/10/2016	104.72 - 109.72	27.26	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW6D-ROX-101016-DUP	10/10/2016		27.26	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-07	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<2.5	<13	<13	<13	<13	<2.5	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<13	<13	<13	<2.5	<2.5	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW7-ROX-071614	7/16/2014		42.05	NE	0.208 J	<0.005	<0.005	0.0127 J	<0.005	<0.001	0.0165 J	0.0197 J	<0.005	<0.001	0.224 J	<0.005	<0.005	<0.001	0.143 J	0.0324 J	<0.005	0.48 J	0.187 J	0.667 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.206 J	<0.005	<0.005	0.0131 J	<0.005	<0.001	0.0141 J	0.0194 J	<0.005	<0.001	0.222 J	<0.005	<0.005	<0.001	0.142 J	0.0318 J	<0.005	0.465 J	0.181 J	0.647 J
	MW7-ROX-101614	10/16/2014		41.31	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25 UJ	<25	<5	<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25 UJ	<25	<5	<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-012215	1/22/2015		43.45	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	MW7-ROX-042115	4/21/2015		44.63	NE	0.0822	<0.25	<0.25	<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	0.295	<0.25	<0.25	<0.05	0.0791 J	0.0174 J	<0.25	0.116	0.0357 J	0.152
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	0.081	<0.25	<0.25	<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	0.285	<0.25	<0.25	<0.05	0.0784 J	0.0173 J	<0.25	0.116	0.0369 J	0.153
	MW7-ROX-071515	7/15/2015		43.54	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW7-ROX-101915	10/19/2015		41.43	NE	<10	<50	<250	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<250	<50	<50	<50
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<10	<50	<250	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<250	<50	<50	<50
	MW7-ROX-011416	1/14/2016		41.02	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<25
	MW7-ROX-011416-DUP	1/14/2016		41.02	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<25
	MW7-ROX-041916	4/19/2016		40.68	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	MW7-ROX-041916-DUP	4/19/2016		40.68	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	MW7-ROX-071416	7/14/2016		39.99	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW7-ROX-071416-DUP	7/14/2016		39.99	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW7-ROX-100616	10/6/2016	42.92 - 52.92	39.24	NE	<10	<50	<250	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<250	<50	<50	<100
	MW7-ROX-100616-DUP	10/6/2016		39.24	NE	<10	<50	<250	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<250	<50	<50	<100
MW-08	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<2.5	<13	<13	<13	<13	1.92 J	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<2.5	<13	<13	<13	<13	1.99 J	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<2	<10	<10	<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<2	<10	<10	<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2
	MW8-ROX-071614	7/16/2014		33.01	NE	0.266	<0.005 UJ	<0.005 UJ	0.0266 J	<0.005 UJ	0.392 J	0.0598 J	0.0606 J	<0.005 UJ	<0.001 UJ	0.108 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.226 J	0.0904 J	<0.005 UJ	0.377 J	0.141 J	0.518 J
	MW8-ROX-101614	10/16/2014		32.23	NE	0.305 J	<5	<5	<5	<5	1.19	<5	<5	<5	<1	<1	<5 UJ	<5	<1	<5	<5	<5 UJ	<1	<1	<1
	MW8-ROX-012215	1/22/2015		34.22	NE	0.359 J	<5	<5	<5	<5	0.906 J	<5	<5	<5	<1	0.259 J	<5	<5	<1	<5	<5	<5	<1	<1	0.318 J
	MW8-ROX-042115	4/21/2015		35.41	NE	0.203	<0.25	<0.25	<0.25	<0.25	0.506	<0.25	0.0251 J	<0.25	<0.05	0.325	<0.25	<0.25	<0.05	0.0473 J	0.0241 J	<0.25	0.164	0.0552	0.22
	MW8-ROX-071515	7/15/2015		34.07	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW8-ROX-101915	10/19/2015		32.30	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<25
	MW8-ROX-011416	1/14/2016		31.79	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	MW8-ROX-041916	4/19/2016		31.45	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	MW8-ROX-071416	7/14/2016		30.80	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
	MW8-ROX-100616	10/6/2016	33.60 - 43.60	29.99	NE	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
MW-09	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100815	10/8/2015		42.64	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW9-ROX-011316	1/13/2016		42.63	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW9-ROX-041216	4/12/2016		41.98	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW9-ROX-071316	7/13/2016		40.93	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW9-ROX-101316	10/13/2016	46.45 - 56.45	40.39	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-10	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070915	7/9/2015		44.93	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100915	10/9/2015		42.79	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW10-ROX-011316	1/13/2016		42.53	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW10-ROX-041116	4/11/2016		41.88	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW10-ROX-071316	7/13/2016		41.00	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW10-ROX-101216	10/12/2016	44.43 - 54.43	40.27	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-11	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100815	10/8/2015		40.15	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW11-ROX-011216	1/12/2016		40.33	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW11-ROX-041116	4/11/2016		39.49	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW11-ROX-071316	7/13/2016		38.59	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW11-ROX-101216	10/12/2016	41.66 - 51.66	37.93	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-12	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-100815	10/8/2015		40.54	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW12-ROX-011116	1/11/2016		40.98	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW12-ROX-040716	4/7/2016		39.82	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW12-ROX-071216	7/12/2016		38.89	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW12-ROX-101116	10/11/2016	41.92 - 51.92	38.85	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-13	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0091	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.001	<0.005	<0.005 UJ	<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	0.0011
	MW13-ROX-011615	1/16/2015		29.09	NE	0.00097 J	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.001	0.00076 J	<0.005	<0.005	<0.001	0.00064 J	<0.005	<0.005	0.0022	0.00072 J	0.003
	MW13-ROX-041415	4/14/2015		30.71	NE	0.00033 J	<0.005	<0.005	<0.005	<0.005	0.0075	<0.005	<0.005	<0.005	<0.001	0.00035 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00057 J	0.00024 J	0.00082 J
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-100515	10/5/2015		27.34	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW13-ROX-010716	1/7/2016		27.16	NE	0.0021	<0.005	<0.025	0.008	<0.025	0.013	<0.001	0.011	<0.001	<0.001	0.033	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	0.059	0.0038 J	0.063
	MW13-ROX-040816	4/8/2016		26.81	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0055	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW13-ROX-071116	7/11/2016		26.01	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW13-ROX100716	10/7/2016	25.57 - 35.57	25.16	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0076	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-14	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	<0.001	<0.005	<0.005	0.0036 J	<0.005	<0.001	<0.005	0.002 J	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.001	<0.005	<0.005	0.00073 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.001	<0.005	<0.005 UJ	0.00043 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	0.00041 J
	MW14-ROX-011615	1/16/2015		33.58	NE	0.00036 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00042 J	<0.005	<0.005	<0.001	0.00032 J	<0.005	<0.005	0.00072 J	<0.001	0.001
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070915	7/9/2015		34.06	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.0011 U	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-101315	10/13/2015		31.88	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW-14-ROX-010816	1/8/2016		31.64	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW14-ROX-041416	4/14/2016		31.32	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.001 J
	MW14-ROX-071116	7/11/2016		30.59	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW14-ROX-101416	10/14/2016	33.42 - 43.42	29.62	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-16	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070915	7/9/2015		44.26	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	0.00038 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	0.0004 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.0048 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00097 J	<0.001	0.00097 J
	MW16-ROX-100715	10/7/2015		41.83	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW16-ROX-011216	1/12/2016		41.99	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW16-ROX-040816	4/8/2016		41.17	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW16-ROX-071216	7/12/2016		39.93	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW16-ROX-101116	10/11/2016	37.06 - 47.06	39.64	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-22	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	3.17	<0.005	0.0082	0.169	0.007	<0.001	0.287	0.287	<0.005	<0.001	5.33	<0.005	<0.005	<0.001	1.3	0.298	<0.005	5.65	2.65	8.29
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	3.4	<0.005	0.0088	0.169	0.007	<0.001	0.262	0.286	<0.005	<0.001	5.71	<0.005	<0.005	<0.001	1.37	0.398	<0.005	6.01	2.81	8.83
	MW22-ROX-041014	4/10/2014		43.15	NE	3.32	<0.005	<0.005	0.157	<0.005	<0.001	0.334	0.254	<0.005	<0.001	5.95	<0.005	<0.005	<0.001	1.1	0.384	<0.005	6.85	3.38	10.2
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	3.02	<0.005	<0.005	0.138	0.0082	<0.001	0.28	0.235	<0.005	<0.001	5.52	<0.005	<0.005	<0.001	1	0.35	<0.005	6.23	3.12	9.35
	MW22-ROX-071414	7/14/2014		41.85	NE	1.93	<0.005	<0.005	0.153 J	<0.005	<0.001	0.282 J	0.205 J	<0.005	<0.001	3.14	<0.005	<0.005	<0.001	0.353 J	0.262 J	<0.005	3.78	1.85	5.64
	MW22-ROX-101014	10/10/2014		41.43	NE	1.88	<0.05	<0.05 UJ	0.0661	<0.05	<0.01	0.202	0.112	<0.05	<0.01	2.3	<0.05	<0.05	<0.01	0.688	0.207	<0.05	3.08	1.74	4.82
	MW22-ROX-011615	1/16/2015		42.19	NE	2.84	<0.05	<0.05	0.11	0.0111 J	<0.01	0.339	0.2	<0.05	<0.01	3.24	0.0129 J	0.0106 J	<0.01	1.05	0.373	<0.05	5.19	2.74	7.93
	MW22-ROX-041415	4/14/2015		43.71	NE	3.05	<0.005	<0.005	0.124	<0.005	<0.001	0.315	0.219	<0.005	<0.001	4.3	<0.005	<0.005	<0.001	1.04	0.321	<0.005	6.26	3.09	9.35
	MW22-ROX-071515	7/15/2015		42.64	NE	3.21	<0.1	<0.1	0.0926 J	<0.1	<0.02	0.219	0.185	<0.1	<0.02	5.05	<0.1	<0.1	<0.02	1.31	0.296	<0.1	6.7	3.48	10.2
	MW22-ROX-101415	10/14/2015		40.54	NE	1.6	<0.1	<0.5	0.048	<0.5	<0.02	0.18	0.075	<0.02	<0.02	0.96	<0.02	<0.02	<0.02	0.47	0.11	<0.5	3	1.6	4.6
	MW22-ROX-011516	1/15/2016		40.42	NE	2	<0.1	<0.5	0.08	<0.5	<0.02	0.26	0.13	<0.02	<0.02	1.8	<0.02	<0.02	<0.02	0.81	0.21	<0.5	3.2	1.9	5
	MW22-ROX-011516-DUP	1/15/2016		40.42	NE	1.9	<0.1	<0.5	0.075	<0.5	<0.02	0.23	0.12	<0.02	<0.02	1.7	<0.02	<0.02	<0.02	0.74	0.19	<0.5	2.9	1.7	4.7
	MW22-ROX-041316	4/13/2016		39.56	NE	2.8	<0.13	<0.63	0.097	<0.63	<0.025	0.33	0.17	<0.025	<0.025	1.6	<0.025	<0.025	<0.025	0.98	0.25	<0.63	5.5	2.6	8.1
	MW22-ROX-041316-DUP	4/13/2016		39.56	NE	3	<0.13	<0.63	0.1	<0.63	<0.025	0.32	0.17	<0.025	<0.025	1.7	<0.025	<0.025	<0.025	1	0.26	<0.63	5.7	2.8	8.5
	MW22-ROX-071516	7/15/2016		38.97	NE	0.41	<0.025	<0.13	0.024	<0.13	<0.005	0.075	0.045	<0.005	<0.005	0.051	<0.005	<0.005	<0.005	0.22	0.064	<0.13	0.56	0.31	0.88
	MW22-ROX-071516-DUP	7/15/2016		38.97	NE	0.41	<0.025	<0.13	0.025	<0.13	<0.005	0.078	0.042	<0.005	<0.005	0.051	<0.005	<0.005	<0.005	0.21	0.063	<0.13	0.57	0.31	0.88
	MW22-ROX-101716	10/17/2016	37.88 - 47.88	38.17	NE	0.86	<0.05	<0.25	0.031	<0.25	<0.01	0.11	0.063	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	0.36	0.097	<0.25	1.7	0.76	2.5
	MW22-ROX-101716-DUP	10/17/2016		38.17	NE	0.89	<0.05	<0.25	0.034	<0.25	<0.01	0.097	0.061	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	0.35	0.092	<0.25	1.7	0.8	2.5
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.001	<0.002	<0.01	<0.001	<0.005	0.0037	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.01	<0.002	<0.001	<0.003
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0039	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	0.004 J	<0.005	<0.005	<0.001	<0.001	<0.0011 U	<0.005	<0.001	<0.005	<0.005	<0.005	0.00062 J	<0.001	0.00062 J
	MW23-ROX-100515	10/5/2015		28.89	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW-23-ROX-010716	1/7/2016		28.78	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW-23-ROX-040616	4/6/2016		27.96	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW-23-ROX-070816	7/8/2016		27.54	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW23-ROX-BP-100716	10/7/2016	29.02 - 39.02	26.64	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-24	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011315	1/13/2015		43.17	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-100715	10/7/2015		41.45	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW24-ROX-011316	1/13/2016		41.44	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW24-ROX-040816	4/8/2016		40.79	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW24-ROX-071216	7/12/2016		39.67	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW24-ROX-101116	10/11/2016	38.89 - 48.89	39.19	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<2	<10	<10	<10	<10	<2	<10	<10	<10	<2	2.65	<10	<10	<2	<10	<10	<10	<2	<2	0.753 J
	MW25-ROX-012215	1/22/2015		38.45	NE	<0.25	<1.3	<1.3	<1.3	<1.3	0.282	<1.3	<1.3	<1.3	<0.25	<0.25	<1.3	<1.3	<0.25	<1.3	<1.3	<1.3	<0.25	<0.25	0.0821 J
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.05	<0.25	<0.25	<0.25	<0.25	0.125	<0.25	<0.25	<0.25	<0.05	<0.05	<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	MW25-ROX-071515	7/15/2015		38.40	NE	<0.2	<1	<1	<1	<1	<0.2	<1	<1	<1	0.0577 J	<0.2	<1	<1	<0.2	<1	<1	<1	<0.2	<0.2	<0.2
	MW25-ROX-101915	10/19/2015		36.55	NE	<0.1	<0.5	<2.5	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.5	<0.5	<0.5	<0.5
	MW25-ROX-011416	1/14/2016		36.12	NE	<0.02	<0.1	<0.5	<0.02	<0.5	0.042	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.5	<0.1	<0.1	<0.1
	MW25-ROX-041916	4/19/2016		35.67	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.049	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.00085 J
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.01	<0.05	<0.25	<0.01	<0.25	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	<0.05	<0.05	<0.1
	MW25-ROX-100616	10/6/2016	35.59 - 45.59	34.27	NE	<0.002	<0.01	<0.05	<0.002	<0.05	0.039	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.01	<0.01	<0.02
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-100615	10/6/2015		39.19	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW26-ROX-010716	1/7/2016		39.55	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW26-ROX-040616	4/6/2016		38.44	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW26-ROX-071216	7/12/2016		37.74	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW26-ROX-101016	10/10/2016	38.15 - 48.15	37.13	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-100815	10/8/2015		40.32	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW27-ROX-011316	1/13/2016		40.68	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW27-ROX-041116	4/11/2016		39.73	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW-27-ROX-071316	7/13/2016		38.94	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	MW27-ROX-101216	10/12/2016	39.79 - 49.79	38.50	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.001	<0.005	<0.005	0.00075 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0011	<0.005	<0.005	<0.001	0.0036 J	0.00059 J	<0.005	0.0036	0.0051	0.0087
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00026 J	<0.005	<0.005	<0.001	0.00059 J	<0.005	<0.005	0.0012	0.00092 J	0.0021
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00042 J	0.00042 J
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	0.00031 J	<0.005	<0.005	<0.001	<0.001	<0.001
	MW28-ROX-101215	10/12/2015		40.04	NE	0.00066 J	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0017 J
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW28-ROX-011416	1/14/2016		39.98	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW28-ROX-041216	4/12/2016		39.20	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0011	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.0017 J
	MW28-ROX-101316	10/13/2016	33.61 - 43.61	37.86	NE	<0.001	<0.005	<0.025	0.0023	<0.025	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	0.0011 J	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-54	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071114	7/10/2014		41.71	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-100814	10/8/2014		40.88	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011415	1/14/2015		41.79	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041015	4/10/2015		43.20	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-070915	7/9/2015		42.25	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.0037 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.00092 U	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	0.00028 J
	P54-ROX-100915	10/9/2015		40.20	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P54-ROX-011216	1/12/2016		40.22	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P54-ROX-041216	4/12/2016		39.42	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P54-ROX-071216	7/12/2016		38.44	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	P54-ROX-101216	10/12/2016	38.00 - 63.00	37.85	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
P-56	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	0.305	<0.005	<0.005	0.0399	<0.005	<0.001	0.0566	0.0426	<0.005	<0.001	0.0263	<0.005	<0.005	<0.001	0.074	0.0172	<0.005	0.224	0.0093	0.233
	P56-ROX-041414	4/14/2014		47.32	NE	0.608	<0.005	<0.005	0.0781	<0.005	<0.001	0.0836	0.0951	<0.005	<0.001	0.0669	<0.005	<0.005	<0.001	0.205	0.0472	<0.005	0.742	0.0156	0.758
	P56-ROX-070814	7/8/2014		45.97	NE	1.71 J	<0.005	<0.005	0.106 J	<0.005	<0.001	0.156 J	0.133 J	<0.005	<0.001	0.288 J	<0.005	<0.005	<0.001	0.487 J	0.166 J	<0.005	2.04 J	0.122 J	2.09 J
	P56-ROX-101314	10/13/2014		45.05	NE	0.164	<0.005	<0.005 UJ	0.0645	<0.005	<0.001	0.0679	0.0709	<0.005	<0.001	0.0183	<0.005	<0.005	<0.001	0.0657	0.0194	<0.005	0.17	0.0066	0.176
	P56-ROX-011915	1/19/2015		46.58	NE	0.104	<0.005	<0.005	0.0532	<0.005	<0.001	0.0261	0.0574	<0.005	<0.001	0.0114	<0.005	<0.005	<0.001	0.0466	0.0135	<0.005	0.143	0.0043	0.148
	P56-ROX-041515	4/15/2015		48.05	NE	0.624	<0.005	<0.005	0.0768	<0.005	<0.001	0.0754	0.0918	<0.005	<0.001	0.068	<0.005	<0.005	<0.001	0.189	0.0454	<0.005	0.737	0.0124	0.749
	P56-ROX-071015	7/10/2015		47.34	NE	0.0297	<0.005	<0.005	0.057	<0.005	<0.001	0.0158	0.0594	<0.005	<0.001	0.005	<0.005	<0.005	<0.001	0.0063	0.0041 J	<0.005	0.0702	0.0035	0.0737
	P56-ROX-101415	10/14/2015		44.85	NE	0.067	<0.005	<0.025	0.027	0.011 J	<0.001	0.016	0.031	<0.001	<0.001	0.0077	<0.001	<0.001	<0.001	0.029	0.0077	<0.025	0.1	0.0031 J	0.1
	P56-ROX-011116	1/11/2016		44.78	NE	0.092	<0.025	<0.13	0.031	<0.13	<0.005	0.023	0.036	<0.005	<0.005	0.016	<0.005	<0.005	<0.005	0.063	0.016	<0.13	0.22	0.0062 J	0.22
	P56-ROX-041416	4/14/2016		43.73	NE	0.093	<0.025	<0.13	0.035	<0.13	<0.005	0.019	0.039	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	0.074	0.019	<0.13	0.2	0.0061 J	0.21
	P56-ROX-071216	7/12/2016		42.87	NE	0.034	<0.01	<0.05	0.032	<0.05	<0.002	0.013	0.032	<0.002	<0.002	0.011	<0.002	<0.002	<0.002	0.037	0.011	<0.05	0.1	0.0036 J	0.11
	P56-ROX-101716	10/17/2016	40.82 - 65.82	42.35	NE	0.051	<0.005	<0.025	0.031	<0.025	<0.001	0.023	0.036	<0.001	<0.001	0.011	<0.001	<0.001	<0.001	0.062	0.015	<0.025	0.18	0.0047 J J	0.19
P-57	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	0.697 J	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P57-ROX-041514	4/15/2014		46.70	NE	1.08	<0.005	0.0062	0.0492	<0.005	0.0563	0.272	0.0585	<0.005	<0.001	0.0248	0.0015 J	<0.005	<0.001	0.503 E J	0.114	<0.005	0.296	0.0143	0.311
	P57-ROX-070814	7/8/2014		45.95	NE	1.12	<0.005 UJ	<0.005 UJ	0.0656 J	<0.005 UJ	<0.001 UJ	0.128 J	0.0605 J	<0.005 UJ	<0.001 UJ	0.154 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.375 J	0.0913 J	<0.005 UJ	1.46	0.237	1.7
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	1.21	<0.005 UJ	<0.005 UJ	0.0689 J	<0.005 UJ	<0.001 UJ	0.139 J	0.0633 J	<0.005 UJ	<0.001 UJ	0.16 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.392 J	0.0954 J	<0.005 UJ	1.56	0.234	1.79
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	1.77 J	<10	<10 UJ	<10	<10	<2	<10	<10	<10	<2	0.849 J	<10	<10	<2	1.18 J	<10	<10	2.37	0.949 J	3.32 J
	P57-ROX-101414	10/14/2014		45.00	NE	3.86	<10	<10 UJ	<10	<10	<2	2.05 J	<10	<10	<2	2.65	<10	<10	<2	2.37 J	<10	<10	5.79	2.1	7.89 J
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.773	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	0.652 J	<2.5	<2.5	0.342 J	<0.5	0.342 J
	P57-ROX-042015	4/20/2015		48.73	NE	0.487	<0.25	<0.25	0.0246 J	<0.25	<0.05	<0.25	0.0468 J	<0.25	<0.05	0.0376 J	<0.25	<0.25	<0.05	0.305	0.0323 J	<0.25	0.14	0.0141 J	0.154
	P57-ROX-071315	7/13/2015		47.81	NE	0.44 J	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	0.44 J	<5	<5	<5	<1	<1	0.237 J
	P57-ROX-101515	10/15/2015		45.56	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	1.8	<1	<1	<1	<1	<1	<25	<5	<5	0.63 J
	P57-ROX-011216	1/12/2016		45.61	NE	0.55 J	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	0.83 J
	P57-ROX-041816	4/18/2016		44.80	NE	0.2 J	<1.3	<6.3	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<6.3	<1.3	<1.3	<1.3
	P57-ROX-071316	7/13/2016		44.02	NE	0.57	<2.5	<13	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<13	<2.5	<2.5	<5
	P57-ROX-101816	10/18/2016	44.19 - 54.19	43.17	NE	0.3 J	<2.5	<13	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<13	<2.5	<2.5	<5

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SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	0.767 J	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P58-ROX-041514	4/15/2014		45.66	NE	0.891 J	<0.005	<0.005	0.0777 J	<0.005	<0.001	0.277 J	0.104 J	<0.005	<0.001	0.127 J	<0.005	<0.005	<0.001	0.53 E J	0.0992 J	<0.005	0.552 J	0.0908 J	0.643 J
	P58-ROX-071814	7/18/2014		43.80	NE	<2	<10	<10	<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2
	P58-ROX-101514	10/15/2014		43.14	NE	0.793	<2.5	<2.5	1.43 J	<2.5	<0.5	<2.5	0.781 J	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	0.72 J	0.453 J	<2.5	<0.5	0.253 J	0.718
	P58-ROX-012315	1/23/2015		45.32	NE	1.13	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	0.714 J	<5	<5	0.686 J	<1	0.686 J
	P58-ROX-042015	4/20/2015		46.67	NE	0.81	<0.05	<0.05	0.0575	<0.05	<0.01	0.12	0.0762	<0.05	<0.01	0.101	<0.05	<0.05	<0.01	0.549	0.0691	<0.05	0.433	0.0525	0.486
	P58-ROX-071415	7/14/2015		45.54	NE	0.457 J	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	0.285 J
	P58-ROX-101615	10/16/2015		43.45	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	P58-ROX-011316	1/13/2016		43.18	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	P58-ROX-041816	4/18/2016		42.68	NE	0.62 J	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	P58-ROX-071516	7/15/2016		42.05	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
	P58-ROX-101816	10/18/2016	40.21 - 65.21	41.05	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
P-59	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	1.86	<0.1	<0.1	0.0409 J	<0.1	<0.02	0.0321 J	0.0824 J	<0.1	<0.02	0.66	<0.1	<0.1	<0.02	0.621	0.193	<0.1	3.79	0.438	4.23
	P59-ROX-041514	4/15/2014		48.60	NE	1.69	<0.005	0.054	0.0495	<0.005	<0.001	0.196	0.0798	<0.005	<0.001	0.746	0.0027 J	<0.005	<0.001	0.385	0.214	<0.005	4.83	0.902	5.73
	P59-ROX-070814	7/8/2014		47.69	NE	1.92	<0.005	<0.005	0.0948 J	<0.005	<0.001	0.228 J	0.16 J	<0.005	<0.001	1.55	<0.005	<0.005	<0.001	0.607	0.285 J	<0.005	4.48	0.929	5.41
	P59-ROX-101414	10/14/2014		46.18	NE	2.33	<0.005	<0.005 UJ	0.0932 J	<0.005	0.0041 J	0.38 J	0.188 J	<0.005	<0.001	1.13	<0.005	<0.005	<0.001	0.901	0.26 J	<0.005	5.14	1.03	6.17
	P59-ROX-011915	1/19/2015		47.42	NE	2.2	<0.5	<0.5	0.0619 J	<0.5	<0.1	0.572	0.108 J	<0.5	<0.1	0.375	<0.5	<0.5	<0.1	0.609	0.21 J	<0.5	4.95	0.245	5.2
	P59-ROX-041615	4/16/2015		48.83	NE	2.13	<0.05	<0.05	0.0432 J	<0.05	<0.01	0.161	0.0763	<0.05	0.0032 J	0.69	<0.05	<0.05	<0.01	0.576	0.177	<0.05	4.78	0.534	5.32
	P59-ROX-071315	7/13/2015		47.85	NE	0.664	<0.13	<0.13	0.0111 J	<0.13	<0.025	0.162	0.0211 J	<0.13	<0.025	0.103	0.0283 J	<0.13	<0.025	0.15	0.0541 J	<0.13	1.6	0.0368	1.63
	P59-ROX-101515	10/15/2015		45.75	NE	1.1	<0.25	<1.3	0.03 J	<1.3	<0.05	0.085	0.04 J	<0.05	<0.05	0.54	<0.05	<0.05	<0.05	0.28	0.1	<1.3	2.8	0.27	3.1
	P59-ROX-011216	1/12/2016		46.10	NE	1.1	<0.13	<0.63	0.022 J	<0.63	<0.025	0.11	0.037	<0.025	<0.025	1.6	<0.025	<0.025	<0.025	0.26	0.08	<0.63	2.3	0.46	2.8
	P59-ROX-041816	4/18/2016		44.28	NE	1.7	<0.1	<0.5	0.04	<0.5	<0.02	0.14	0.084	<0.02	<0.02	0.85	<0.02	<0.02	<0.02	0.56	0.16	<0.5	3.4	0.31	3.7
	P59-ROX-071316	7/13/2016		44.01	NE	1.4	<0.13	<0.63	0.046	<0.63	<0.025	0.18	0.059	<0.025	<0.025	0.47	<0.025	<0.025	<0.025	0.48	0.16	<0.63	2.1	0.17	2.2
	P59-ROX-101816	10/18/2016	47.91 - 72.91	43.39	NE	2.1	<0.25	<1.3	0.05	<1.3	<0.05	0.19	0.1	<0.05	<0.05	2.3	<0.05	<0.05	<0.05	0.64	<0.05	<1.3	4.2	0.27	4.5
P-66	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	0.0013	<0.005	<0.005	0.131	<0.005	<0.001	<0.005	0.157	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0045	0.0045
	P66-ROX-041114	4/11/2014		37.10	NE	0.0014	<0.005	<0.005	0.115	<0.005	<0.001	0.0014 J	0.136	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00072 J	0.0013
	P66-ROX-070714	7/7/2014		35.60	NE	0.0016	<0.005	<0.005	0.144	<0.005	<0.001	<0.005	0.102	<0.005	<0.001	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.001	0.00099 J	0.002
	P66-ROX-101414	10/14/2014		34.48	NE	0.0013	<0.005	<0.005 UJ	0.129	<0.005	0.0111	<0.005	0.137	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0009 J	0.0018
	P66-ROX-011615	1/16/2015		36.62	NE	0.0016	<0.005	<0.005	0.121	<0.005	0.0171	0.006	0.136	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	0.00073 J	0.00029 J	<0.005	0.00093 J	0.0012	0.0021
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	0.0014	<0.005	<0.005	0.116	<0.005	0.0172	0.0053	0.127	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	0.00041 J	0.00019 J	<0.005	0.001	0.0013	0.0022
	P66-ROX-041415	4/14/2015		38.27	NE	0.003	<0.005	<0.005	0.133	<0.005	<0.001	<0.005	0.134	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	0.00064 J	<0.005	<0.005	0.0028	0.0015	0.0044
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	0.0027	<0.005	<0.005	0.13	<0.005	<0.001	<0.005	0.132	<0.005	<0.001	0.0022	<0.005	<0.005	<0.001	0.00053 J	<0.005	<0.005	0.0024	0.0013	0.0037
	P66-ROX-070815	7/8/2015		37.24	NE	0.0024	<0.005	<0.005	0.133	<0.005	<0.001	<0.005	0.117	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	0.0003 J	<0.005	<0.005	0.0016	0.0011	0.0027
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	0.0022	<0.005	<0.005	0.132	<0.005	<0.001	<0.005	0.119	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	0.00032 J	<0.005	<0.005	0.0016	0.0011	0.0027
	P66-ROX-101315	10/13/2015		34.84	NE	0.0042	<0.005	<0.025	0.072	<0.025	0.019	0.0035	0.068	<0.001	<0.001	0.00092 J	<0.001	<0.001	<0.001	0.0012	<0.001	<0.025	0.0024 J	0.00086 J	0.0033 J
	P-66-ROX-010816	1/8/2016		34.64	NE	<0.001	<0.005	<0.025	0.085	<0.025	<0.001	<0.001	0.083	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P66-ROX-041516	4/15/2016		34.33	NE	0.0048	<0.005	<0.025	0.068	<0.025	<0.001	0.017	0.075	<0.001	<0.001	0.00086 J	<0.001	<0.001	<0.001	0.0017	0.00056 J	<0.025	0.002 J	0.00077 J	0.0027 J
	P66-ROX-071116	7/11/2016		33.58	NE	0.0075	<0.005	<0.025	0.083	<0.025	0.017	0.026	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.00082 J	<0.025	0.0032 J	0.001 J	0.0042 J
	P66-ROX-101416	10/14/2016	34.72 - 59.72	32.61	NE	0.0091	<0.005	<0.025	0.071	<0.025	0.022	0.067	0.095	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.024	0.0014	<0.025	0.0039 J	0.001 J	0.0049 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-74	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	0.115	<0.005	<0.005	0.0058	<0.005	<0.001	0.0322	0.0112	<0.005	<0.001	0.153	<0.005	<0.005	<0.001	0.292	0.11	<0.005	0.316	0.0579	0.374
	P74-ROX-041514	4/15/2014		44.74	NE	0.0043	<0.005	<0.005	<0.005	<0.005	<0.001	0.00074 J	<0.005	<0.005	<0.001	0.00078 J	<0.005	<0.005	<0.001	0.0083	0.0039 J	<0.005	0.0193	0.0015	0.0208
	P74-ROX-070814	7/8/2014		43.02	NE	0.0374	<0.005	<0.005	0.0018 J J	<0.005	<0.001	0.0128	0.0036 J	<0.005	<0.001	0.0087	<0.005	<0.005	<0.001	0.117	0.0518	<0.005	0.121	0.0122	0.133
	P74-ROX-101414	10/14/2014		41.48	NE	<0.001	<0.005	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	0.00043 J
	P74-ROX-011915	1/19/2015		43.47	NE	0.082	<0.005	<0.005	0.0029 J	<0.005	0.0056	0.0193	0.0053	<0.005	<0.001	0.102	<0.005	<0.005	<0.001	0.135	0.0589	<0.005	0.197	0.019	0.216
	P74-ROX-041515	4/15/2015		44.61	NE	0.0058	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	0.00042 J	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	0.0086	0.0044 J	<0.005	0.0202	0.0012	0.0214
	P74-ROX-071015	7/10/2015		43.28	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P74-ROX-101415	10/14/2015		41.75	NE	0.056	<0.025	<0.13	<0.005	<0.13	<0.005	0.02	0.0038 J	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	0.081	0.033	<0.13	0.21	0.0071 J	0.21
	P74-ROX-011116	1/11/2016		40.67	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.001 J
	P74-ROX-041516	4/15/2016		40.40	NE	0.0025	<0.005	<0.025	<0.001	<0.025	0.0018	0.0012	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.0096	0.0062	<0.025	0.013	0.001 J	0.014
	P74-ROX-071216	7/12/2016		39.56	NE	0.0021	<0.005	<0.025	<0.001	<0.025	<0.001	0.0018	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	0.016	0.0098	<0.025	0.0069	0.00089 J	0.0078 J
	P74-ROX-101416	10/14/2016	44.43 - 69.43	39.44	NE	0.002	<0.005	<0.025	0.00063 J	<0.025	<0.001	0.0038	0.0012	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	0.013	0.005	<0.025	0.0035 J	0.00079 J	0.0043 J
P-93A	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071814	7/18/2014		45.70	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93A-ROX-101514	10/15/2014		45.06	NE	0.229 J	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	0.442 J	<2.5	<2.5	<0.5	0.263 J	0.65
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.226 J	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	0.258 J	0.635
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	0.0856 J	<0.002 UJ	<0.01 UJ	0.0073 J	0.0011 J J	0.0013 J	0.0243 J	0.008 J	<0.001 UJ	<0.001 UJ	0.0039 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	0.127 E J	0.0282 J	<0.01 UJ	0.138 J	0.0347 J	0.173 J
	P93A-ROX-041715	4/17/2015		47.02	NE	0.0559	<0.005	<0.005	0.0049 J	<0.005	<0.001	0.011	0.0059	<0.005	<0.001	0.003	<0.005	<0.005	<0.001	0.0886	0.03	<0.005	0.0477	0.0199	0.0677
	P93A-ROX-071315	7/13/2015		45.93	NE	0.0361 J	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	0.0342 J	<0.5	<0.5	<0.1	0.0313 J	<0.5	<0.5	<0.1	<0.1	0.0502 J
	P93A-ROX-101515	10/15/2015		43.69	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	P-93A-ROX-011216	1/12/2016		43.73	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	P-93A-ROX-011216-DUP	1/12/2016		43.73	NE	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<10
	P93A-ROX-041916	4/19/2016		43.08	NE	<0.25	<1.3	<6.3	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<6.3	<1.3	<1.3	<1.3
	P93A-ROX-041916-DUP	4/19/2016		43.08	NE	<0.25	<1.3	<6.3	<0.25	<6.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<6.3	<1.3	<1.3	<1.3
	P93A-ROX-071316	7/13/2016		42.20	NE	<0.1	<0.5	<2.5	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.5	<0.5	<0.5	<1
	P93A-ROX-071316-DUP	7/13/2016		42.20	NE	<0.1	<0.5	<2.5	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.5	<0.5	<0.5	<1
	P93A-ROX-101816	10/18/2016	43.07 - 53.07	41.35	NE	<0.02	<0.1	<0.5	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.5	<0.1	<0.1	<0.2
	P93A-ROX-101816-DUP	10/18/2016		41.35	NE	<0.02	<0.1	<0.5	<0.02	<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.5	<0.1	<0.1	<0.2
P-93B	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071714	7/17/2014		45.75	NE	0.0236 J	<0.005 UJ	<0.005 UJ	0.0227 J	<0.005 UJ	<0.001 UJ	0.0053 J	0.0297 J	<0.005 UJ	<0.001 UJ	0.0129 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.008 J	0.0037 J J	<0.005 UJ	0.0662 J	0.0047 J	0.0708
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-012315	1/23/2015		47.24	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93B-ROX-021915	2/19/2015		47.24	NE	<0.5	<1	<5	<0.5	<2.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<5	<1	<0.5	<1.5
	P93B-ROX-041615	4/16/2015		48.42	NE	0.0947	<0.005	<0.005	0.0226	<0.005	<0.001	0.0033 J	0.0286	<0.005	0.00073 J	0.111	<0.005	<0.005	<0.001	0.0124	0.0043 J	<0.005	0.0993	0.0378	0.137
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	0.249 J	<5	<5	<5	<5	<1	<5	<5	<5	0.216 J	<1	<5	<5	<1	<5	<5	<5	<1	<1	0.338 J
	P93B-ROX-070915	7/9/2015		47.74	NE	<5	<25	<25	<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<2	<10	<10	<10	<10	<2	7.01 J	<10	<10	<2	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2
	P93B-ROX-101515	10/15/2015		45.18	NE	<2.5	<13	<63	<2.5	<63	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<63	<13	<13	<13
	P93B-ROX-011316	1/13/2016		44.96	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	P93B-ROX-041916	4/19/2016		44.54	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<5
	P93B-ROX-071516	7/15/2016		43.65	NE	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
	P93B-ROX-101816	10/18/2016	74.60 - 76.60	42.73	NE	<0.5	<2.5	<13	<0.5	<13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<13	<2.5	<2.5	<5

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-93C	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0047	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0043	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0061 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0046	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93C-ROX-021915	2/19/2015		48.22	NE	<1	<2	<10	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<10	<2	<1	<3
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	0.0295 J	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93C-ROX-071315	7/13/2015		47.09	NE	0.00047 J	<0.005	<0.005	<0.005	<0.005	0.0016	<0.0037 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	0.00059 J	<0.005	<0.005	0.00095 J	<0.001	0.0011
	P93C-ROX-101415	10/14/2015		44.91	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P-93C-ROX-010816	1/8/2016		44.68	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P93C-ROX-041816	4/18/2016		44.06	NE	0.00085 J	<0.005	<0.025	<0.001	<0.025	0.00099 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.025	<0.005	<0.005	0.00067 J
	P93C-ROX-071216	7/12/2016		43.37	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0029	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	P93C-ROX-101816	10/18/2016	92.47 - 97.47	42.49	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
P-93D	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	0.0017 J	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	0.0083 J	<0.05	<0.05	<0.01	<0.01	<0.01
	P93D-ROX-110414	11/4/2014		45.14	NE	0.0013	<0.005	<0.005	<0.005	<0.005	0.002	<0.005	0.00067 J	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	0.00057 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012315	1/23/2015		42.28	NE	<0.25	<1.3	<1.3	<1.3	<1.3	<0.25	<1.3	<1.3	<1.3	<0.25	<0.25	<1.3	<1.3	<0.25	<1.3	<1.3	<1.3	<0.25	<0.25	<0.25
	P93D-ROX-021915	2/19/2015		42.28	NE	<2.5	<5	<25	<2.5	<13	<2.5	<13	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<5	<25	<5	<2.5	<7.5
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93D-ROX-070915	7/9/2015		47.96	NE	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93D-ROX-101515	10/15/2015		45.28	NE	<0.1	<0.5	<2.5	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.5	<0.5	<0.5	0.081 J
	P93D-ROX-011316	1/13/2016		45.10	NE	<0.1	<0.5	<2.5	<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.5	<0.5	<0.5	<0.5
	P93D-ROX-041916	4/19/2016		44.61	NE	<0.05	<0.25	<1.3	<0.05	<1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.3	<0.25	<0.25	<0.25
	P93D-ROX-071516	7/15/2016		43.83	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	P93D-ROX-101716	10/17/2016	125.75 - 127.75	42.78	NE	<0.001	<0.005	<0.025	<0.001	<0.025	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
P-114	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0153	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071814	7/18/2014		30.87	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-101714	10/17/2014		29.43	NE	0.00045 J J	<0.005	<0.005	<0.005	<0.005	0.0098 J	<0.005	0.00087 J J	<0.005	<0.001	<0.001	<0.005 UJ	<0.005	<0.001	<0.005	0.00043 J J	<0.005 UJ	0.00059 J J	<0.001	0.00059 J J
	P114-ROX-012115	1/21/2015		31.53	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0268 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	0.00046 J J	<0.005	<0.005	0.00068 J J	<0.001	0.00093 J J
	P114-ROX-041715	4/17/2015		NM	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0237	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-070815	7/8/2015		29.16	NE	<0.001	<0.005	<0.005	<0.005	<0.005	0.0265	0.002 J	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	28.15	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P114R-ROX-010716	1/7/2016				<0.001	<0.005	<0.025	<0.001	<0.025	0.00091 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P114R-ROX-040816	4/8/2016				<0.001	<0.005	<0.025	<0.001	<0.025	0.00084 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	P114R-ROX-070816	7/8/2016				<0.001	<0.005	<0.025	<0.001	<0.025	0.00082 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01
	P114R-ROX-100716	10/7/2016	23.01 - 33.01	23.89	NE	<0.001	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	<0.01

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						VOCs																		
						Ethylbenzene	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.7 [1]	0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]		0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
ROST-3-MW	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	0.008	<0.005	<0.005	0.00099 J	<0.005	<0.001	<0.005	0.002 J	<0.005	<0.001	0.0012	<0.005	<0.005	<0.001	0.0207	0.0057	<0.005	0.0377	0.0063	0.044
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	0.0055	<0.005	<0.005	0.00043 J	<0.005	<0.001	0.00084 J	0.00082 J	<0.005	<0.001	0.0015	<0.005	<0.005	<0.001	0.0121	0.003 J	<0.005	0.0287	0.0028	0.0315
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	0.008	<0.005	<0.005	0.00053 J	<0.005	<0.001	0.0045 J	0.00098 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	0.0132	0.0032 J	<0.005	0.0371	0.0041	0.0412
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	0.0398	<0.005	<0.005	0.0021 J	<0.005	<0.001	0.0061	0.0028 J	<0.005	<0.001	0.0032	<0.005	<0.005	<0.001	0.018	0.005	<0.005 UJ	0.0651	0.0205	0.0856
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	0.0144	<0.005	<0.005	0.0016 J	<0.005	<0.001	0.0061	0.0021 J	<0.005	<0.001	0.0011	<0.005	<0.005	<0.001	0.0126	0.0036 J	<0.005	0.0166	0.0042	0.0209
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.0085	<0.005	<0.005	0.0014 J	<0.005	<0.001	<0.005	0.0015 J	<0.005	<0.001	0.0008 J	<0.005	<0.005	<0.001	0.0055	0.00068 J	<0.005	0.0015	0.0029	0.0044
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	0.02	<0.00071 U	<0.005	0.00093 J	<0.005	<0.001	0.0052 J	0.0012 J	<0.005	<0.001	0.0027	<0.0015 U	<0.0013 U	<0.001	0.0059	0.00061 J	0.0583	0.0263	0.0065	0.0328
	ROST3MW-ROX-101215	10/12/2015		40.29	NE	0.06	<0.005	<0.025	0.0023	<0.025	<0.001	0.008	0.0029	<0.001	<0.001	0.0036	<0.001	<0.001	<0.001	0.02	0.0045	<0.025	0.13	0.024	0.16
	ROST3MW-ROX-011416	1/14/2016		40.30	NE	0.027	<0.005	<0.025	0.0016	<0.025	<0.001	0.0071	0.0018	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	0.008	0.0015	<0.025	0.04	0.0077	0.047
	ROST3MW-ROX-041216	4/12/2016		39.69	NE	0.0011	<0.005	<0.025	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.005	0.00064 J
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	0.0042	<0.005	<0.025	0.00055 J	<0.025	<0.001	0.0035	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	0.0029	<0.001	<0.025	0.0042 J	0.0017 J	0.0058 J
	ROST3MW-ROX-101316	10/13/2016	37.81 - 47.81	38.19	NE	0.036	<0.005	<0.025	0.0021	<0.025	<0.001	0.0078	0.0031	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	0.022	0.0032	<0.025	0.044	0.0083	0.053
ROST-4-PZ(C)	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	0.0039	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	0.00073 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	0.0017 J	<0.005	<0.005	0.0124	0.0057	0.018
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	0.00059 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00057 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0015	0.0015	0.003
	ROST4C-ROX-071114	7/10/2014		42.22	NE	0.0594	<0.005	<0.005	0.00037 J	<0.005	<0.001	0.0104	<0.005	<0.005	<0.001	0.0421	<0.005	<0.005	<0.001	0.00082 J	<0.005	<0.005	0.0574	0.0815	0.139
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	0.0688	<0.005	<0.005	0.0011 J	<0.005	<0.001	0.0169	0.0011 J	<0.005	<0.001	0.0196	<0.005	<0.005	<0.001	0.0046 J	0.00047 J	<0.005 UJ	0.112	0.0634	0.176
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	0.0035	<0.005	<0.005	0.00036 J	<0.005	<0.001	<0.005	0.00056 J	<0.005	<0.001	0.0005 J	<0.005	<0.005	<0.001	0.0011 J	<0.005	<0.005	0.0026	0.0031	0.0057
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	0.0806	<0.005	<0.005	0.0013 J	<0.005	<0.001	0.0146	0.0013 J	<0.005	<0.001	0.0313	<0.005	<0.005	<0.001	0.0052	0.00075 J	<0.005	0.148	0.0203	0.168
	ROST4PZ-ROX-071315	7/13/2015		42.59	NE	0.159	<0.005	<0.005	0.0037 J	<0.005	<0.001	0.0806	0.0053	<0.005	<0.001	0.0456	<0.005	<0.005	<0.001	0.0334	0.0052	<0.005	0.4	0.0302	0.43
	ROST4PZC-ROX-101215	10/12/2015		40.35	NE	0.15	<0.005	<0.025	0.0051	<0.025	<0.001	0.082	0.0059	<0.001	<0.001	0.042	<0.001	<0.001	<0.001	0.036	0.0066	<0.025	0.53	0.036	0.57
	ROST4PZC-ROX-011516	1/15/2016		40.54	NE	0.036	<0.01	<0.05	0.0044	<0.05	<0.002	0.071	0.006	<0.002	<0.002	0.03	<0.002	<0.002	<0.002	0.037	0.004	<0.05	0.17	0.02	0.19
	ROST4PZC-ROX-041316	4/13/2016		39.61	NE	0.067	<0.01	<0.05	0.0073	<0.05	<0.002	0.12	0.01	<0.002	<0.002	0.039	<0.002	<0.002	<0.002	0.063	0.013	<0.05	0.49	0.014	0.51
	ROST4PZC-ROX-071516	7/15/2016		38.93	NE	0.047	<0.01	<0.05	0.0089	<0.05	<0.002	0.1	0.012	<0.002	<0.002	0.029	<0.002	<0.002	<0.002	0.065	0.018	<0.05	0.27	0.0065 J	0.28
	ROST4PZC-ROX-101316	10/13/2016	34.95 - 44.95	38.45	NE	0.089	<0.01	<0.05	0.0049	<0.05	<0.002	0.087	0.0074	<0.002	<0.002	0.023	<0.002	<0.002	<0.002	0.039	0.01	<0.05	0.26	0.0048 J	0.27
T-12	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	0.518	<0.005	<0.005	0.0362	<0.005	<0.001	0.171	0.0676	<0.005	<0.001	0.421	<0.005	<0.005	<0.001	0.526	0.0507	<0.005	1.12	0.0469	1.23
	T12-ROX-041514	4/15/2014		46.72	NE	0.376	<0.005	<0.005	0.0306	<0.005	<0.001	0.12	0.0534	<0.005	<0.001	0.406	<0.005	<0.005	<0.001	0.22 J	0.0339	<0.005	0.841	0.0401	0.864
	T12-ROX-070814	7/8/2014		45.13	NE	0.614	<0.005	<0.005	0.0577 J	<0.005	<0.001	0.146	0.0912	<0.005	<0.001	0.686	<0.005	<0.005	<0.001	0.425	0.0589	<0.005	1.25	0.0909	1.3
	T12-ROX-101714	10/17/2014		44.40	NE	1.75	<0.05	<0.05	0.0459 J	<0.05	<0.01	0.184 J	0.0707	<0.05	<0.01	0.722	<0.05 UJ	<0.05	<0.01	0.244	0.0391 J	<0.05 UJ	2.25	0.114	2.36
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	0.596	<0.05	<0.05	0.0432 J	<0.05	0.0033 J	0.196	0.0745	<0.05	<0.01	0.337	<0.05	<0.05	<0.01	0.391	0.0521	<0.05	1.3	0.0747	1.38
	T12-ROX-041515	4/15/2015		46.73	NE	1.34	<0.005	<0.005	0.0662	<0.005	<0.001	0.131	0.117	<0.005	<0.001	0.658	<0.005	<0.005	<0.001	0.331	0.0543	<0.005	1.62	0.177	1.62
	T12-ROX-071015	7/10/2015		46.09	NE	0.197	<0.05	<0.05	0.0222 J	<0.05	<0.01	0.0798	0.0455 J	<0.05	<0.01	0.0782	<0.05	<0.05	<0.01	0.185	0.0173 J	<0.05	0.594	0.0097 J	0.603
	T12-ROX-101515	10/15/2015		43.72	NE	0.2	<0.05	<0.25	0.034	<0.25	<0.01	0.081	0.055	<0.01	<0.01	0.096	<0.01	<0.01	<0.01	0.15	0.016	<0.25	0.55	0.008 J	0.56
	T12-ROX-011216	1/12/2016		44.13	NE	0.098	<0.05	<0.25	0.015	<0.25	0.037	0.1	0.019	<0.01	<0.01	0.084	<0.01	<0.01	<0.01	0.13	0.014	<0.25	0.45	0.0074 J	0.46
	T12-ROX-041516	4/15/2016		42.07	NE	0.023	<0.025	<0.13	0.015	<0.13	<0.005	0.064	0.021	<0.005	<0.005	0.053	<0.005	<0.005	<0.005	0.053	0.0094	<0.13	0.21	0.0045 J	0.22
	T12-ROX-071216	7/12/2016		41.50	NE	0.15	<0.05	<0.25	0.026	<0.25	<0.01	0.058	0.04	<0.01	<0.01	0.064	<0.01	<0.01	<0.01	0.051	0.011	<0.25	0.16	0.0079 J	0.16
	T12-ROX-101716	10/17/2016	46.83 - 72.83	41.19	NE	0.12	<0.05	<0.25	0.014	<0.25	0.023	0.09	0.022	<0.01	<0.01	0.15	<0.01	<0.01	<0.01	0.063	0.0073 J	<0.25	0.37	0.0082 J	0.38

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.0053	<0.011 UJ
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.003 J J	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0057 UJ	<0.00011	<0.00011	<0.0022	<0.0054	<0.011 UJ
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW1-ROX-011215	1/12/2015		42.73	NE	0.00003 J	0.000027 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	0.00046 J	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW1-ROX-100615	10/6/2015		40.83	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW1-ROX-010816	1/8/2016		40.93	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW1-ROX-041216	4/12/2016		40.35	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW1-ROX-101316	10/13/2016	48.80 - 58.80	38.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-02	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.00011	0.00018	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	MW2-ROX-071414	7/14/2014		43.13	NE	0.000084 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00037 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	MW2-ROX-011615	1/16/2015		44.1	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW2-ROX-041315	4/13/2015		45.56	NE	0.000041 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	0.001 J	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW2-ROX-071315	7/13/2015		44.53	NE	0.000042 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	0.0028 J
	MW2-ROX-101215	10/12/2015		42.15	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW2-ROX-011416	1/14/2016		42.04	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW2-ROX-041316	4/13/2016		41.59	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0044 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW2-ROX-071416	7/14/2016		40.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW2-ROX101316	10/13/2016	49.87 - 59.87	40.10	NE	<0.00019	<0.00019	<0.0097	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029 UJ	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.00019	<0.00019	<0.0097	<0.0097	<0.0097
MW-03	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.0053	<0.011 UJ
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	0.00038 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0054	<0.0054	0.0013 J	<0.0054	<0.011	<0.0054	0.000028 J	<0.0001	<0.0022	<0.0054	<0.011
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW3-ROX-011515	1/15/2015		29.65	NE	0.000027 J	<0.00011	<0.011	J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW3-ROX-041015	4/10/2015		31.16	NE	0.000018 J	<0.0001	<0.011	0.000019 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.011	<0.011	<0.0053	<0.0053	<0.00073 U	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.0053	<0.011
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.00011	<0.00011	<0.011	0.00002 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW3-ROX-100915	10/9/2015		27.98	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW3-ROX-010716	1/7/2016		27.92	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW3-ROX-040616	4/6/2016		27.07	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW3-ROX-070816	7/8/2016		26.51	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002 UJ	<0.01	<0.01	<0.01
	MW3-ROX100716	10/7/2016	34.67 - 44.67	25.79	NE	<0.0002	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-04	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.0054	<0.011 UJ
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.0059	<0.012
	MW4-ROX-012115	1/21/2015		41.27	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	0.000027 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW4-ROX-071415	7/14/2015		41.30	NE	0.000023 J	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW4-ROX-101915	10/19/2015		39.44	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW4-ROX-011316	1/13/2016		39.10	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW4-ROX-041916	4/19/2016		38.50	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW4-ROX-071416	7/14/2016		37.85	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW4-ROX-100616	10/6/2016	45.06 - 55.06	37.18	NE	<0.0002	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-05	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW5-ROX-071414	7/14/2014		28.59	NE	0.000075 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW5-ROX-011515	1/15/2015		29.34	NE	0.00012	<0.00011	<0.011	0.00007 J J	0.000035 J J	<0.00011	<0.000053	0.00002 J J	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000025 J J	J	<0.0021	<0.0053	<0.011
	MW5-ROX-041315	4/13/2015		30.97	NE	0.000073 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW5-ROX-071315	7/13/2015		29.45	NE	0.000062 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW5-ROX-101215	10/12/2015		27.53	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.00008 J	0.000088 J	0.000087 J	0.000088 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.000071 J	0.000078 J	<0.01	<0.01	<0.01
	MW5-ROX-011416	1/14/2016		27.19	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW5-ROX-040616	4/6/2016		26.80	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW5-ROX-070816	7/8/2016		26.28	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002 UJ	<0.01	<0.01	<0.01
	MW5-ROX-101016	10/10/2016	33.97 - 43.97	25.47	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098 UJ	0.00073 J	<0.0098	<0.0098	<0.0098	<0.0098 UJ	<0.0098 UJ	<0.0002	<0.0002	<0.0098	<0.0098 UJ	<0.0098 UJ
MW-06A	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.00057 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.00066 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.00011	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6A-ROX-011415	1/14/2015		31.54	NE	0.000089 J	0.00004 J	<0.011	0.00006 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6A-ROX-040715	4/7/2015		33.08	NE	0.000061 J	0.000085 J	<0.01	0.000027 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	MW6A-ROX-071515	7/15/2015		31.52	NE	0.00011	<0.00011	<0.011	0.000047 J	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6A-ROX-011116	1/11/2016		29.36	NE	0.00017 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6A-ROX-040716	4/7/2016		29.07	NE	0.00012 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6A-ROX-101116	10/11/2016	34.83 - 44.83	27.51	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-06B	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	0.000051 J	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000042 J	<0.0022	<0.0054	<0.011
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.00011	0.000016 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.0001	0.000016 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.0001	0.000016 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW6B-ROX-071415	7/14/2015		31.56	NE	0.00012	0.000017 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6B-ROX-100715	10/7/2015		29.80	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6B-ROX-040716	4/7/2016		29.11	NE	0.00005 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0.0002	<0.0002	<0.01	<0.0002	0.000054 J	0.000082 J	0.00014 J	0.000079 J	0.00013 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00004 J	0.000069 J	<0.01	<0.01	<0.01
	MW6B-ROX-101116	10/11/2016	64.05 - 69.05	27.56	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.0028 U	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-06C	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000041 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.0059	<0.012
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	0.000034 J	<0.00011	<0.000056	0.000035 J	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000037 J	<0.00011	<0.0022	<0.0056	<0.011
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6C-ROX-011415	1/14/2015		31.41	NE	0.000017 J	<0.00011	<0.011	0.000024 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.00011	<0.00011	<0.011	0.000016 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6C-ROX-071415	7/14/2015		31.38	NE	0.000027 J	0.00002 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6C-ROX-100715	10/7/2015		29.60	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6C-ROX-010816	1/8/2016		29.31	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6C-ROX-040716	4/7/2016		28.91	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6C-ROX-071116	7/11/2016		28.30	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6C-ROX-101016	10/10/2016	84.95 - 89.95	27.37	NE	<0.00019	<0.00019	<0.0095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029	<0.0095 UJ	<0.0095	<0.0095	0.0026 J	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095
MW-06D	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.016	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.00011	<0.00011	<0.011	0.000026 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6D-ROX-040715	4/7/2015		32.74	NE	0.000016 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000059 J	0.000054 J	0.000049 J	0.000047 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-010816	1/8/2016		29.59	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-010816-DUP	1/8/2016		29.59	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-040716	4/7/2016		28.76	NE	0.000058 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW6D-ROX-101016	10/10/2016	104.72 - 109.72	27.26	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098 UJ	<0.01	<0.01	<0.01	<0.01	<0.0098 UJ	<0.0098 UJ	<0.0002	<0.0002	<0.01	<0.0098 UJ	<0.0098 UJ
	MW6D-ROX-101016-DUP	10/10/2016		27.26	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098 UJ	<0.01	<0.01	<0.01	<0.01	<0.0098 UJ	<0.0098 UJ	<0.0002	<0.0002	<0.01	<0.0098 UJ	<0.0098 UJ

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-07	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	0.00028	<0.0001	<0.01	0.00029	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.005	<0.01
	MW7-ROX-041614	4/16/2014		43.79	NE	0.00034	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW7-ROX-071614	7/16/2014		42.05	NE	0.00024	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.00022	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW7-ROX-101614	10/16/2014		41.31	NE	0.00024	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	MW7-ROX-012215	1/22/2015		43.45	NE	0.00026	0.000051 J	<0.011	J	<0.00005 U	0.000028 J	0.00013 J	0.000034 J	0.000026 J	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.000046 U	0.000025 J	<0.0021	<0.0053	0.00072 J
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00025	0.000044 J	<0.01	0.00046 J	<0.000052	<0.0001	UJ	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00039 J	<0.0052	<0.01	<0.0052	<0.000021 U	<0.0001	<0.0021	<0.0052	0.00071 J
	MW7-ROX-042115	4/21/2015		44.63	NE	0.00038	0.000059 J	<0.01	0.000055 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	0.000022 J	<0.0001	0.00028 J	<0.0051	0.0014 J
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	0.00036	0.000053 J	<0.01	0.00005 J	<0.000051	0.000024 J	<0.000051	0.000018 J	<0.0001	<0.01	<0.01	<0.0051	<0.0051	0.00033 J	<0.0051	<0.01	<0.0051	0.000028 J	0.000016 J	<0.002	<0.0051	0.0012 J
	MW7-ROX-071515	7/15/2015		43.54	NE	0.00027	0.000038 J	<0.01	0.000038 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	0.00037 J	<0.0051	<0.01	<0.0051	0.000033 J	<0.0001	<0.002	<0.0051	<0.01
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	0.00025	0.000043 J	<0.01	0.000039 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000034 J	<0.0001	<0.0021	<0.0052	<0.01
	MW7-ROX-101915	10/19/2015		41.43	NE	0.00012 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0043 J
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.011 J *	<0.01	<0.01	<0.01	0.0024 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0044 J
	MW7-ROX-011416	1/14/2016		41.02	NE	0.00019 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.018 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0035 J
	MW7-ROX-011416-DUP	1/14/2016		41.02	NE	0.00023	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.022 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0036 J
	MW7-ROX-041916	4/19/2016		40.68	NE	0.00024	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.031	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0048 J
	MW7-ROX-041916-DUP	4/19/2016		40.68	NE	0.00021	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.021 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0042 J
	MW7-ROX-071416	7/14/2016		39.99	NE	0.00031	0.000058 J	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW7-ROX-071416-DUP	7/14/2016		39.99	NE	0.00023	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW7-ROX-100616	10/6/2016	42.92 - 52.92	39.24	NE	0.00017 J	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW7-ROX-100616-DUP	10/6/2016		39.24	NE	0.00016 J	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0023 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0038 J
MW-08	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	0.0002	0.000089 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	0.00053 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.0005 J	<0.0051	0.0124
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	0.00021	0.000083 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00072 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00053 J	<0.0054	0.0121
	MW8-ROX-041614	4/16/2014		34.73	NE	0.00018	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0005 J	<0.0056	<0.011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	0.00016	0.000063 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00045 J	<0.0051	<0.01
	MW8-ROX-071614	7/16/2014		33.01	NE	0.00018	0.000068 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00041 J	0.00057 J	<0.01
	MW8-ROX-101614	10/16/2014		32.23	NE	0.00021	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	0.0099 J
	MW8-ROX-012215	1/22/2015		34.22	NE	0.00027	0.000073 J	<0.01	0.000035 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	0.0172
	MW8-ROX-042115	4/21/2015		35.41	NE	0.00018	0.000052 J	<0.011	0.000034 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00045 J	<0.0053	0.0201
	MW8-ROX-071515	7/15/2015		34.07	NE	0.00018	<0.00011	<0.011	0.000037 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0171	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW8-ROX-101915	10/19/2015		32.30	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0065 J
	MW8-ROX-011416	1/14/2016		31.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.008 J
	MW8-ROX-041916	4/19/2016		31.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.012
	MW8-ROX-071416	7/14/2016		30.80	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW8-ROX-100616	10/6/2016	33.60 - 43.60	29.99	NE	<0.0002	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0035 J
MW-09	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.0053	<0.011 UJ
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	0.000024 J	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.00054 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00036 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.0059	<0.012
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW9-ROX-040915	4/9/2015		45.38	NE	0.00002 J	<0.0001	<0.01	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.00026 U	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW9-ROX-100815	10/8/2015		42.64	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW9-ROX-011316	1/13/2016		42.63	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW9-ROX-041216	4/12/2016		41.98	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW9-ROX-071316	7/13/2016		40.93	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW9-ROX-101316	10/13/2016	46.45 - 56.45	40.39	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03 UJ	<0.01	<0.01	<0.01	0.0052 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-10	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000096 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	0.00054 J	<0.0053	<0.011 UJ	<0.0054 UJ	<0.00011	0.000074 J	<0.0021	<0.0053	<0.011 UJ
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.00068 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00052 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056	0.00042 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	MW10-ROX-070915	7/9/2015		44.93	NE	0.000023 J	<0.00011	<0.011	0.000039 J	0.000035 J	0.000022 J	0.000028 J	0.000027 J	J	<0.011	<0.011	<0.0054	<0.0054	0.00045 J	0.00028 J	<0.011	<0.0054	0.000045 J	0.00002 J	<0.0022	<0.0054	<0.011
	MW10-ROX-100915	10/9/2015		42.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW10-ROX-011316	1/13/2016		42.53	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW10-ROX-041116	4/11/2016		41.88	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW10-ROX-071316	7/13/2016		41.00	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW10-ROX-101216	10/12/2016	44.43 - 54.43	40.27	NE	<0.00021	<0.00021	<0.011	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.032 UJ	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.00021	<0.00021	<0.011	<0.011	<0.011
MW-11	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW11-ROX-100815	10/8/2015		40.15	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0068 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW11-ROX-011216	1/12/2016		40.33	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW11-ROX-041116	4/11/2016		39.49	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW11-ROX-071316	7/13/2016		38.59	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW11-ROX-101216	10/12/2016	41.66 - 51.66	37.93	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098	<0.0098	<0.0098	0.0042 J	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098
MW-12	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01 UJ	<0.0052 UJ	<0.0001	<0.0001	<0.0021	<0.0052	<0.01 UJ
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.00011	<0.00011	<0.01	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.01	<0.01 UJ	<0.0051	<0.0051	<0.00039 U	<0.0051	<0.01	<0.0051	<0.00011	<0.00011	<0.002	<0.0051	<0.01
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW12-ROX-070815	7/8/2015		42.86	NE	0.000018 J	<0.00011	<0.011	<0.00011	0.000046 J	0.000067 J	0.000083	0.000081 J	0.00011 J	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.00008 J	<0.00011	<0.0022	<0.0056	<0.011
	MW12-ROX-100815	10/8/2015		40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW12-ROX-011116	1/11/2016		40.98	NE	<0.0002	<0.0002	<0.01	<0.0002	0.000085 J	0.00016 J	0.00035	0.00019 J	0.00014 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00028	<0.0002	<0.01	<0.01	<0.01
	MW12-ROX-040716	4/7/2016		39.82	NE	0.000069 J	<0.0002	<0.01	<0.0002	<0.0002	0.000054 J	0.000064 J	0.000045 J	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW12-ROX-071216	7/12/2016		38.89	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW12-ROX-101116	10/11/2016	41.92 - 51.92	38.85	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	0.000061 J	<0.0002	<0.0002	0.0087 J	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-13	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW13-ROX-041114	4/11/2014		30.15	NE	0.00013	0.000066 J	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.00011	0.000061 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.00012	0.00019	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	MW13-ROX-011615	1/16/2015		29.09	NE	0.00014	0.00009 J	<0.011	0.000053 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.00003 J	<0.00011	<0.0021	<0.0053	<0.011
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.00011	0.000075 J	<0.011	0.000051 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	0.0013 J
	MW13-ROX-070815	7/8/2015		29.16	NE	0.000089 J	0.000057 J	<0.011	0.000028 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW13-ROX-100515	10/5/2015		27.34	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW13-ROX-010716	1/7/2016		27.16	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW13-ROX-040816	4/8/2016		26.81	NE	0.00015 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW13-ROX-071116	7/11/2016		26.01	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW13-ROX100716	10/7/2016	25.57 - 35.57	25.16	NE	<0.0002	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-14	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	0.00062	0.00012	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00056 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW14-ROX-041114	4/11/2014		34.30	NE	0.00037	0.000089 J	<0.012	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.012	<0.012	<0.006	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00011	<0.00011	<0.0024	<0.006	<0.012
	MW14-ROX-070714	7/7/2014		32.82	NE	0.00033	0.000063 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00048 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW14-ROX-101414	10/14/2014		31.65	NE	0.00054	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW14-ROX-011615	1/16/2015		33.58	NE	0.00027	0.00006 J	<0.011	0.000015 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW14-ROX-041415	4/14/2015		35.16	NE	0.00026	0.000057 J	<0.01	0.00003 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.00011	<0.00011	<0.0021	<0.0052	<0.01
	MW14-ROX-070915	7/9/2015		34.06	NE	0.0002	0.000051 J	<0.01	0.000027 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	0.00051 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW14-ROX-101315	10/13/2015		31.88	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW-14-ROX-010816	1/8/2016		31.64	NE	0.00015 J	<0.0002	<0.01	<0.0002	<0.0002	0.000054 J	0.000046 J	0.000075 J	0.000048 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW14-ROX-041416	4/14/2016		31.32	NE	0.000074 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW14-ROX-071116	7/11/2016		30.59	NE	0.000059 J	0.00002 J	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW14-ROX-101416	10/14/2016	33.42 - 43.42	29.62	NE	0.000054 J *	<0.00019	<0.0095 UJ	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.00019	<0.00019	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ
MW-16	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00061 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.0059	<0.012
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW16-ROX-070915	7/9/2015		44.26	NE	0.000026 J	0.00002 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.00011	<0.00011	<0.011	0.000025 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW16-ROX-100715	10/7/2015		41.83	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW16-ROX-011216	1/12/2016		41.99	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW16-ROX-040816	4/8/2016		41.17	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW16-ROX-071216	7/12/2016		39.93	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW16-ROX-101116	10/11/2016	37.06 - 47.06	39.64	NE	<0.0002	<0.0002	<0.0099	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099 UJ	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0002	<0.0002	<0.0099	<0.0099	<0.0099
MW-22	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	0.00015	<0.00011	<0.053	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.053	<0.053	<0.027	<0.027	<0.011	<0.027	<0.053	<0.027	<0.00011	<0.00011	<0.011	<0.027	0.0399 J
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	0.00014	<0.00011	<0.054	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.054	<0.054	<0.027	<0.027	<0.011	<0.027	<0.054	<0.027	<0.00011	<0.00011	<0.011	<0.027	0.0364 J
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0001 J	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.028	0.0316 J
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	0.00012	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.028	0.032 J
	MW22-ROX-071414	7/14/2014		41.85	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00045 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	0.0281
	MW22-ROX-101014	10/10/2014		41.43	NE	0.00029	0.00019	<0.013	0.00019	<0.000063	<0.00013	<0.000063	<0.00013	<0.00013	<0.013	<0.013	<0.0063	<0.0063	<0.0025	<0.0063	<0.013	<0.0063	<0.00013	<0.00013	<0.0025	<0.0063	<0.013
	MW22-ROX-011615	1/16/2015		42.19	NE	0.00015	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	0.0329
	MW22-ROX-041415	4/14/2015		43.71	NE	0.00014	<0.0001	<0.01	0.000027 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	0.0143
	MW22-ROX-071515	7/15/2015		42.64	NE	0.00013	0.000028 J	<0.057	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.057	<0.057	<0.029	<0.029	<0.011	<0.029	<0.057	<0.029	<0.00011	<0.00011	<0.011	<0.029	<0.057
	MW22-ROX-101415	10/14/2015		40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.015
	MW22-ROX-011516	1/15/2016		40.42	NE	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.02 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.01	<0.01	0.021
	MW22-ROX-011516-DUP	1/15/2016		40.42	NE	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.018 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.01	<0.01	0.019
	MW22-ROX-041316	4/13/2016		39.56	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	0.0023 J H J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0002	<0.0002	<0.01 UJ	0.0041 J H J	0.035 H J
	MW22-ROX-041316-DUP	4/13/2016		39.56	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.0031 J	0.037
	MW22-ROX-071516	7/15/2016		38.97	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.0055 J J	0.0071 J
	MW22-ROX-071516-DUP	7/15/2016		38.97	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW22-ROX-101716	10/17/2016	37.88 - 47.88	38.17	NE	<0.00098	<0.00098	<0.0098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.029	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.00098	<0.00098	<0.0098	<0.0098	0.035
	MW22-ROX-101716-DUP	10/17/2016		38.17	NE	<0.00098	<0.00098	<0.0098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.029	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.00098	<0.00098	<0.0098	<0.0098	0.042
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.005	<0.005	<0.005
	MW23-ROX-040815	4/8/2015		32.24	NE	0.000076 J	<0.0001	<0.01	0.000058 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	0.000028 J	<0.0001	<0.002	<0.0051	<0.01
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	0.000036 J	<0.00011	<0.011	0.000033 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000018 J	<0.00011	<0.0022	<0.0056	<0.011
	MW23-ROX-100515	10/5/2015		28.89	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW-23-ROX-010716	1/7/2016		28.78	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW-23-ROX-040616	4/6/2016		27.96	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW-23-ROX-070816	7/8/2016		27.54	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0091 J	<0.01	<0.01	<0.01	0.0024 J F1	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW23-ROX-BP-100716	10/7/2016	29.02 - 39.02	26.64	NE	<0.0002	<0.0002 UJ	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-24	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW24-ROX-011315	1/13/2015		43.17	NE	0.000074 J	0.000077 J	<0.011	0.000022 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0003 U	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.0001	<0.0001	<0.01	0.000044 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW24-ROX-100715	10/7/2015		41.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW24-ROX-011316	1/13/2016		41.44	NE	<0.0002	<0.0002	<0.01	<0.0002	0.000078 J	0.000059 J	0.00006 J	J	0.000096 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.000092 J	0.000081 J	<0.01	<0.01	<0.01
	MW24-ROX-040816	4/8/2016		40.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW24-ROX-071216	7/12/2016		39.67	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW24-ROX-101116	10/11/2016	38.89 - 48.89	39.19	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	0.0025 J
	MW25-ROX-012215	1/22/2015		38.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00059 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW25-ROX-042115	4/21/2015		39.71	NE	0.000032 J	<0.0001	<0.01	0.000016 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	MW25-ROX-071515	7/15/2015		38.40	NE	0.000036 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW25-ROX-101915	10/19/2015		36.55	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW25-ROX-011416	1/14/2016		36.12	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW25-ROX-041916	4/19/2016		35.67	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.03 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ
	MW25-ROX-100616	10/6/2016	35.59 - 45.59	34.27	NE	<0.0002	<0.0002 UJ	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW26-ROX-100615	10/6/2015		39.19	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW26-ROX-010716	1/7/2016		39.55	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW26-ROX-040616	4/6/2016		38.44	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW26-ROX-071216	7/12/2016		37.74	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW26-ROX-101016	10/10/2016	38.15 - 48.15	37.13	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	0.0031 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	0.0001 J J	0.00013 J	J	J	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	J	<0.0021	<0.00029 U	<0.011
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.00041 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW27-ROX-100815	10/8/2015		40.32	NE	<0.0002	<0.0002	<0.01	0.000024 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW27-ROX-011316	1/13/2016		40.68	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW27-ROX-041116	4/11/2016		39.73	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW-27-ROX-071316	7/13/2016		38.94	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW27-ROX-101216	10/12/2016	39.79 - 49.79	38.50	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098	<0.0098	<0.0098	0.0077 J	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	0.0007 J	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	0.0012 J
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	0.000027 J	0.00006	0.00004 J	0.00002 J	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	MW28-ROX-101215	10/12/2015		40.04	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW28-ROX-011416	1/14/2016		39.98	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW28-ROX-041216	4/12/2016		39.20	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	MW28-ROX-101316	10/13/2016		37.86	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098	<0.0098	<0.0098	0.0032 J	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-54	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00058 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	P54-ROX-071114	7/10/2014		41.71	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P54-ROX-100814	10/8/2014		40.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P54-ROX-011415	1/14/2015		41.79	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P54-ROX-041015	4/10/2015		43.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P54-ROX-070915	7/9/2015		42.25	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P54-ROX-100915	10/9/2015		40.20	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P54-ROX-011216	1/12/2016		40.22	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P54-ROX-041216	4/12/2016		39.42	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P54-ROX-071216	7/12/2016		38.44	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0024 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P54-ROX-101216	10/12/2016	38.00 - 63.00	37.85	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098	<0.0098	<0.0098	0.006 J	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098
P-56	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	0.00055	<0.0001	<0.01	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00047 J	<0.0052	<0.01
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051	0.000081 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.00067 J	<0.0059	<0.012
	P56-ROX-070814	7/8/2014		45.97	NE	0.00035	0.000081 J	<0.011 UJ	0.0001 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00049 J	<0.0056	<0.011
	P56-ROX-101314	10/13/2014		45.05	NE	0.00057	0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.001 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00055 J	<0.0054	<0.011
	P56-ROX-011915	1/19/2015		46.58	NE	0.00068	0.000079 J	<0.011	0.000097 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P56-ROX-041515	4/15/2015		48.05	NE	0.00061	0.0001 J	<0.011	0.00013	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00038 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00055 J	<0.0054	0.0026 J
	P56-ROX-071015	7/10/2015		47.34	NE	0.00065	0.000095 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P56-ROX-101415	10/14/2015		44.85	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.028 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P56-ROX-011116	1/11/2016		44.78	NE	0.00057	0.000092 J	<0.01	0.00021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0089 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P56-ROX-041416	4/14/2016		43.73	NE	0.00069	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00054 J	<0.01	<0.01
	P56-ROX-071216	7/12/2016		42.87	NE	0.00026	<0.0002	<0.01	0.000067 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0023 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P56-ROX-101716	10/17/2016	40.82 - 65.82	42.35	NE	0.00043	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
P-57	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	0.00041	0.000075 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00067 J	<0.0053	<0.011
	P57-ROX-041514	4/15/2014		46.70	NE	0.00036	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0007 J	<0.0056	<0.011 UJ
	P57-ROX-070814	7/8/2014		45.95	NE	0.00029	0.000069 J	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0007 J	<0.0053	<0.011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00029	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00071 J	<0.0054	<0.011
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	0.0003	<0.00012	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.0058	<0.0023	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.0058	<0.012
	P57-ROX-101414	10/14/2014		45.00	NE	0.00036	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.00059	0.00014	<0.011	0.000073 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0013 J	<0.0053	<0.011
	P57-ROX-042015	4/20/2015		48.73	NE	0.00054	0.00012	<0.01	0.00009 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0011 J	<0.0052	<0.01
	P57-ROX-071315	7/13/2015		47.81	NE	0.00049	0.0001 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P57-ROX-101515	10/15/2015		45.56	NE	0.00029	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0076 J *	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00067 J	<0.01	<0.01
	P57-ROX-011216	1/12/2016		45.61	NE	0.00046 J	0.00022 J	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	0.001 J	<0.01	<0.01
	P57-ROX-041816	4/18/2016		44.80	NE	0.00028 H J	<0.0002 UJ	<0.01 UJ	<0.0002 UJ	J	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.03 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ
	P57-ROX-071316	7/13/2016		44.02	NE	0.00041 J	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.01	<0.01	<0.01	0.038	<0.01	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	<0.01
	P57-ROX-101816	10/18/2016	44.19 - 54.19	43.17	NE	0.00058	0.00013 J	<0.01	0.000032 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03 UJ	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00054 J	<0.01 UJ	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-58	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	0.00061	0.00018	<0.01	<0.0001	0.000035 J	0.000047 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000079 J	<0.0001	0.0016 J	<0.0052	<0.01
	P58-ROX-041514	4/15/2014		45.66	NE	0.0011	0.00072	0.0028 J	0.00071	0.00082	0.00063	0.00072	0.00071	0.00071	<0.011 UJ	0.0051 J	<0.0053 UJ	0.0015 J	<0.00099 U	0.00091 J	0.0044 J	0.0043 J	0.00073	0.00075	0.0023	0.00077 J	<0.011 UJ
	P58-ROX-071814	7/18/2014		43.80	NE	0.00067	0.00021	<0.011	<0.00011	0.000083	0.000086 J	0.000045 J	0.000035 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.0018 J	<0.0055	<0.011
	P58-ROX-101514	10/15/2014		43.14	NE	0.00058	0.00023	<0.011	<0.00011	0.00013	0.00011	0.000074	0.000065 J	<0.00011	<0.011	<0.011	<0.0054	0.014	<0.00042 U	<0.0054	<0.011	<0.0054	0.00018	<0.00011	0.0022	<0.0054	<0.011
	P58-ROX-012315	1/23/2015		45.32	NE	0.0006	0.00018	<0.011	0.000053 J	0.000026 J	0.00002 J	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000032 J	<0.00011	0.0019 J	<0.0053	<0.011
	P58-ROX-042015	4/20/2015		46.67	NE	0.00064	0.00017	<0.01	0.000077 J	0.000052	0.000063 J	0.000059	0.000028 J	0.000016 J	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000095 J	<0.0001	0.002 J	<0.0052	<0.01
	P58-ROX-071415	7/14/2015		45.54	NE	0.00059	0.00018	<0.011	<0.00011	0.000087	0.000074 J	<0.000055	0.000042 J	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.002 J	<0.0055	<0.011
	P58-ROX-101615	10/16/2015		43.45	NE	0.00021	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00059 J	<0.01	<0.01
	P58-ROX-011316	1/13/2016		43.18	NE	0.00069	0.00022	<0.01	0.000067 J	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P58-ROX-041816	4/18/2016		42.68	NE	0.00081 H J	<0.0002 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	0.013 J H * J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	J	<0.0002 UJ	0.0018 J H J	<0.01 UJ	<0.01 UJ
	P58-ROX-071516	7/15/2016		42.05	NE	0.0003	0.00013 J	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P58-ROX-101816	10/18/2016	40.21 - 65.21	41.05	NE	0.00051 J	0.00021 J	<0.0098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.029 UJ	<0.0098 UJ	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.00098	<0.00098	0.0014 J	<0.0098 UJ	<0.0098
P-59	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	0.00046	<0.0001	<0.01	0.00018	0.000035 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000046 J	<0.0001	<0.0021	<0.0052	0.147 J
	P59-ROX-041514	4/15/2014		48.60	NE	0.0013	<0.00011	<0.011	0.00018	0.00006	0.000042 J	0.000044 J	0.000035 J	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.0001 J	<0.00011	<0.0021	<0.0053	<0.011 UJ
	P59-ROX-070814	7/8/2014		47.69	NE	0.0015	0.000091 J	<0.011 UJ	0.00012	0.000029 J	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	0.000027 J	<0.00011	<0.0023	<0.0057	0.17
	P59-ROX-101414	10/14/2014		46.18	NE	0.00045 J	<0.00054	<0.011	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	<0.0054	0.0035 J	<0.0022	<0.0054	<0.011	<0.0054	<0.00054	<0.00054	<0.0022	<0.0054	0.0492
	P59-ROX-011915	1/19/2015		47.42	NE	0.00075	0.00013	<0.011	0.00021	0.000038 J	0.000021 J	<0.000054	0.00002 J	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00042 J	<0.0054	<0.011	<0.0054	0.000047 J	<0.00011	<0.0022	<0.0054	0.153
	P59-ROX-041615	4/16/2015		48.83	NE	0.00031	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	0.165
	P59-ROX-071315	7/13/2015		47.85	NE	0.00058	<0.00011	<0.011	0.00037	0.000068	0.000035 J	0.000056	0.000037 J	0.000033 J	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00013	<0.00011	<0.0022	<0.0054	0.113
	P59-ROX-101515	10/15/2015		45.75	NE	<0.002	<0.002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.077
	P59-ROX-011216	1/12/2016		46.10	NE	0.00036 J	0.00019 J	<0.01	0.00021 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	0.0095 J
	P59-ROX-041816	4/18/2016		44.28	NE	<0.0002 UJ	0.00013 J J	<0.01 UJ	0.00048 J	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	0.012 J J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	0.01 J
	P59-ROX-071316	7/13/2016		44.01	NE	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	0.063
	P59-ROX-101816	10/18/2016	47.91 - 72.91	43.39	NE	<0.0002	<0.0002	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098 UJ	<0.0098	<0.0098	0.0025 J	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098 UJ	0.045
P-66	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	0.00099	0.00032	<0.011	<0.00011	0.000039 J	0.000044 J	0.000048 J	0.000052 J	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000047 J	0.000035 J	0.0019 J	<0.0053	<0.011
	P66-ROX-041114	4/11/2014		37.10	NE	0.00058	0.00017	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.0058	<0.00068 U	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.0058	<0.012
	P66-ROX-070714	7/7/2014		35.60	NE	0.00033	0.00016	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P66-ROX-101414	10/14/2014		34.48	NE	0.00045	0.00018	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0012 J	<0.0055	<0.011
	P66-ROX-011615	1/16/2015		36.62	NE	0.00067	0.00026	<0.011	J	0.00003 J J	UJ	UJ	<0.00011	UJ	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000029 J J	<0.00011	<0.0021	<0.0053	<0.011
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	0.00068	0.00027	<0.011	0.00031 J	0.00043 J	0.0003 J	0.00032 J	0.00015	0.00023 J	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00032 J	0.000062 J	<0.0022	<0.0054	<0.011
	P66-ROX-041415	4/14/2015		38.27	NE	0.0006	0.00022	<0.011	<0.00011	<0.000054	0.000019 J	0.000055	0.000022 J	0.000021 J	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.000024 J	<0.00011	0.0016 J	<0.0054	<0.011
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	0.00066	0.00021	<0.011	0.000044 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0016 J	<0.0053	<0.011
	P66-ROX-070815	7/8/2015		37.24	NE	0.00054	0.00017	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.001 J	<0.0053	<0.011
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	0.00051	0.00021	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000017 J	<0.00011	0.0011 J	<0.0053	<0.011
	P66-ROX-101315	10/13/2015		34.84	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P-66-ROX-010816	1/8/2016		34.64	NE	0.00071	0.00022	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.0012 J	<0.01	<0.01
	P66-ROX-041516	4/15/2016		34.33	NE	0.00039	<0.0002	<0.01	<0.0002	<0.0002	0.00004 J	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.0014 J	<0.01	<0.01
	P66-ROX-071116	7/11/2016		33.58	NE	0.0006 J	0.00028 J	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.01	0.0019 J	<0.01
	P66-ROX-101416	10/14/2016	34.72 - 59.72	32.61	NE	0.001 *	<0.00095	<0.0095 UJ	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	0.019 J H J	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.00095	<0.00095	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-74	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	0.00023	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	0.00063 J	0.00097 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P74-ROX-041514	4/15/2014		44.74	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.0059	<0.012 UJ
	P74-ROX-070814	7/8/2014		43.02	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	P74-ROX-101414	10/14/2014		41.48	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.005	<0.002	0.00096 J	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.005	<0.01
	P74-ROX-011915	1/19/2015		43.47	NE	0.00018	0.000061 J	<0.011	0.000046 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	0.02
	P74-ROX-041515	4/15/2015		44.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P74-ROX-071015	7/10/2015		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P74-ROX-101415	10/14/2015		41.75	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.021
	P74-ROX-011116	1/11/2016		40.67	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P74-ROX-041516	4/15/2016		40.40	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P74-ROX-071216	7/12/2016		39.56	NE	0.000042 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P74-ROX-101416	10/14/2016	44.43 - 69.43	39.44	NE	0.000064 J *	<0.00019	<0.0095 UJ	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.00019	<0.00019	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ
P-93A	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P93A-ROX-041714	4/17/2014		47.41	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P93A-ROX-071814	7/18/2014		45.70	NE	0.00017	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0057	0.0041	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.00037 U	<0.011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	0.00016	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	P93A-ROX-101514	10/15/2014		45.06	NE	0.0002	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0004 U	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0003 J	<0.0052	<0.01
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.00022 J	UJ	<0.011 UJ	UJ	<0.000054 UJ	UJ	UJ	UJ	UJ	<0.011 UJ	<0.011 UJ	<0.0054 UJ	0.0044 J J	<0.0041 UJ	<0.0054 UJ	<0.011 UJ	<0.0054 UJ	<0.00011 UJ	UJ	0.00033 J J	<0.0054 UJ	<0.011 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.005	<0.005	<0.005
	P93A-ROX-041715	4/17/2015		47.02	NE	0.00011	<0.00011	<0.011	0.000031 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	0.00046 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00029 J	<0.0053	<0.011
	P93A-ROX-071315	7/13/2015		45.93	NE	0.00011	0.000029 J	<0.01	0.00003 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	0.00048 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P93A-ROX-101515	10/15/2015		43.69	NE	0.000079 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	0.00008 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P-93A-ROX-011216	1/12/2016		43.73	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P-93A-ROX-011216-DUP	1/12/2016		43.73	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.01 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-041916	4/19/2016		43.08	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-041916-DUP	4/19/2016		43.08	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-071316	7/13/2016		42.20	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-071316-DUP	7/13/2016		42.20	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93A-ROX-101816	10/18/2016	43.07 - 53.07	41.35	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01
	P93A-ROX-101816-DUP	10/18/2016		41.35	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01
P-93B	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0055	0.00072 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.0055	<0.011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	0.0012 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0051	0.0015 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	0.00045 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P93B-ROX-012315	1/23/2015		47.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	0.00063 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93B-ROX-021915	2/19/2015		47.24	NE																						
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	0.00099 J
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	0.00084 J
	P93B-ROX-070915	7/9/2015		47.74	NE	<0.0001	<0.0001	<0.01	0.000029 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0153	<0.002	<0.0051	<0.01	<0.0051	0.000017 J	<0.0001	<0.002	<0.0051	0.0009 J
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	0.000062 J	0.00004 J	<0.01	0.000041 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0142	<0.002	<0.0051	<0.01	<0.0051	0.000016 J	<0.0001	<0.002	<0.0051	0.00082 J
	P93B-ROX-101515	10/15/2015		45.18	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93B-ROX-011316	1/13/2016		44.96	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93B-ROX-041916	4/19/2016		44.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93B-ROX-071516	7/15/2016		43.65	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93B-ROX-101816	10/18/2016	74.60 - 76.60	42.73	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	0.0024 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93C	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P93C-ROX-021915	2/19/2015		48.22	NE																						
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P93C-ROX-101415	10/14/2015		44.91	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P-93C-ROX-010816	1/8/2016		44.68	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93C-ROX-041816	4/18/2016		44.06	NE	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	J	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.0002 UJ	<0.03 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ
	P93C-ROX-071216	7/12/2016		43.37	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	0.00004 J	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	0.000048 J	<0.01	<0.01	<0.01
	P93C-ROX-101816	10/18/2016	92.47 - 97.47	42.49	NE	<0.00019	<0.00019	<0.0095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029	<0.0095 UJ	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095 UJ	<0.0095
P-93D	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	0.0045	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0005 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P93D-ROX-110414	11/4/2014		45.14	NE																						
	P93D-ROX-012315	1/23/2015		42.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P93D-ROX-021915	2/19/2015		42.28	NE																						
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.0001	<0.0001	<0.01	0.000017 J	<0.000052	<0.0001	0.000061	0.00002 J	0.000023 J	<0.01	<0.01	<0.0052	<0.0052	<0.00035 U	<0.0052	<0.01	<0.0052	0.000021 J	<0.0001	<0.0021	<0.0052	<0.01
	P93D-ROX-070915	7/9/2015		47.96	NE	<0.0001	<0.0001	<0.01	0.000018 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0043 J	<0.002	<0.0051	<0.01	<0.0051	0.000016 J	<0.0001	<0.002	<0.0051	<0.01
	P93D-ROX-101515	10/15/2015		45.28	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93D-ROX-011316	1/13/2016		45.10	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 UJ	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93D-ROX-041916	4/19/2016		44.61	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93D-ROX-071516	7/15/2016		43.83	NE	<0.0002	<0.0002	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P93D-ROX-101716	10/17/2016	125.75 - 127.75	42.78	NE	<0.00019	<0.00019	<0.0095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095
P-114	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.00011	<0.00011	<0.011	0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	0.00066 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	P114-ROX-042114	4/21/2014		32.22	NE	0.00011	<0.0001	<0.01	0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P114-ROX-071814	7/18/2014		30.87	NE	0.000082 J	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	<0.01
	P114-ROX-101714	10/17/2014		29.43	NE	0.000078 J	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	P114-ROX-012115	1/21/2015		31.53	NE	0.00019	<0.00011	<0.011	0.000096 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	P114-ROX-041715	4/17/2015		NM	NE	0.00021	0.000044 J	<0.011	0.000054 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	0.00038 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	P114-ROX-070815	7/8/2015		29.16	NE	0.0002	<0.0001	<0.01	0.000035 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.005	<0.01
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	28.15	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000071 J	0.00007 J	<0.0002	0.00006 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P114R-ROX-010716	1/7/2016				<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P114R-ROX-040816	4/8/2016				<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0088 J	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	P114R-ROX-070816	7/8/2016				<0.0002	<0.0002	<0.05 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0002	<0.0002	<0.05	<0.05	<0.05
	P114R-ROX-100716	10/7/2016	23.01 - 33.01	23.89	NE	<0.00019	UJ	<0.0095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0098 J	<0.0095	<0.0095	<0.0095	0.0025 J	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.015 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]		0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
ROST-3-MW	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.0053	<0.011 UJ
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.006	<0.012
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	0.00046 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	0.000027 J	<0.00011	<0.011	J	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.000028 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	<0.01
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	0.000037 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011
	ROST3MW-ROX-101215	10/12/2015		40.29	NE	0.000081 J	<0.0002	<0.01	0.00003 J	0.000092 J	0.000089 J	0.00011 J	0.000089 J	0.00012 J	<0.03	<0.01	<0.01	<0.01	0.0039 J	<0.01	<0.01	<0.01	0.000095 J	0.000094 J	<0.01	<0.01	<0.01
	ROST3MW-ROX-011416	1/14/2016		40.30	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	ROST3MW-ROX-041216	4/12/2016		39.69	NE	0.00017 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002 UJ	<0.01	<0.01	<0.01
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	0.000079 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	ROST3MW-ROX-101316	10/13/2016	37.81 - 47.81	38.19	NE	0.00013 J	0.000023 J	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029 UJ	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0098
ROST-4-PZ(C)	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.01 UJ	<0.012	<0.0059	<0.0059	<0.0024	<0.0059	<0.01 UJ	<0.005 UJ	<0.00012	<0.00012	<0.0024	<0.0059	<0.01 UJ
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0053	<0.0053	0.0007 J	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.0053	<0.011
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0057	0.0042	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.0001	<0.0001	<0.01	0.000018 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.0051	0.0013 J
	ROST4PZ-ROX-071315	7/13/2015		42.59	NE	0.000093 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.0052	0.0028 J
	ROST4PZC-ROX-101215	10/12/2015		40.35	NE	0.00019 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	ROST4PZC-ROX-011516	1/15/2016		40.54	NE	0.00046 J	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.01	<0.01	0.0046 J
	ROST4PZC-ROX-041316	4/13/2016		39.61	NE	0.00051	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0072 J
	ROST4PZC-ROX-071516	7/15/2016		38.93	NE	0.00025	0.000041 J	<0.01 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	0.0027 J	0.00084 J	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.0014 J J	0.013
	ROST4PZC-ROX-101316	10/13/2016	34.95 - 44.95	38.45	NE	0.00099	0.0001 J	<0.0096	0.000048 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.029 UJ	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.00019	<0.00019	0.00083 J	0.00074 J	<0.0096
T-12	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	0.0005	<0.0001	<0.01	0.00014	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<002	<0.0051	0.0073 J
	T12-ROX-041514	4/15/2014		46.72	NE	0.00037	<0.00011	<0.011	0.00012	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00031 J	<0.0056	<0.011 UJ
	T12-ROX-070814	7/8/2014		45.13	NE	0.00024	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011
	T12-ROX-101714	10/17/2014		44.40	NE	0.00036	0.000072 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	0.00039	0.000064 J	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	0.0069 J
	T12-ROX-041515	4/15/2015		46.73	NE	0.00036	0.000065 J	<0.011	0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00033 J	0.00036 J J	0.0044 J
	T12-ROX-071015	7/10/2015		46.09	NE	0.00034	<0.00011	<0.011	0.00015	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	0.0041 J
	T12-ROX-101515	10/15/2015		43.72	NE	0.00022	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.004 J
	T12-ROX-011216	1/12/2016		44.13	NE	0.00042	<0.0004	<0.01	0.00015 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0004	<0.0004	<0.01	<0.01	<0.01
	T12-ROX-041516	4/15/2016		42.07	NE	0.00037	0.000062 J	<0.01	0.000074 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.0037 J
	T12-ROX-071216	7/12/2016		41.50	NE	0.00035	0.000053 J	<0.01	0.000083 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01
	T12-ROX-101716	10/17/2016	46.83 - 72.83	41.19	NE	0.00038	0.000067 J	<0.0098	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	0.02

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TABLE 3
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						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-01	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.0053	<0.0053	<0.021 UJ	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053	<0.011 UJ	0.000031 J	<0.0053 UJ	<0.00011	<0.011
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00029 U	<0.0054	<0.023 UJ	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054	<0.011 UJ	<0.000023 U	<0.0057 UJ	<0.00011	<0.011
	MW1-ROX-070914	7/9/2014		42.09	NE	0.0016 JB	<0.0054	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.000085 J	0.00012 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW1-ROX-011215	1/12/2015		42.73	NE	<0.0053	<0.0053	<0.021	<0.025	0.000017 J	0.000027 J	<0.0053		<0.00011	<0.00003 U	<0.000036 U	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00003 J	<0.0053	<0.00011	<0.011 UJ
	MW1-ROX-040615	4/6/2015		44.11	NE	0.00044 J	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.000018 J	0.000035 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.0053	<0.0053	<0.021	<0.025 UJ	<0.00011	<0.00011	<0.0053		<0.00011	0.000038 J	0.000066 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000022 J	<0.0053	<0.00011	<0.011
	MW1-ROX-100615	10/6/2015		40.83	NE	<0.01	0.00056 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000057 J	0.000096 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW1-ROX-010816	1/8/2016		40.93	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000062 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW1-ROX-041216	4/12/2016		40.35	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00005 J	0.000068 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.01	<0.00086 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW1-ROX-101316	10/13/2016	48.80 - 58.80	38.79	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000033 J	0.000041 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-02	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.0094	0.0208	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000043 U	<0.0053	<0.00011	<0.011 UJ
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00046 U	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	0.0083	0.0193	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.00045 U	<0.0054	<0.022	<0.025	0.00012	0.00014	<0.0054		<0.00011	0.01	0.0215	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.00017 U	<0.0054	0.000096 J	<0.011
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0051	<0.0051	<0.02	<0.05	<0.0001	<0.0001	<0.0051		<0.0001	0.01	0.0214	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW2-ROX-011615	1/16/2015		44.1	NE	<0.00034 U	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.0108	0.0236	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011	<0.011
	MW2-ROX-041315	4/13/2015		45.56	NE	<0.00045 U	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.0124	0.0253	<0.011	0.00066 J	<0.0054	<0.011	<0.0054	<0.011	0.000023 J	<0.0054	<0.00011	<0.011
	MW2-ROX-071315	7/13/2015		44.53	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	0.000036 J	<0.0054		<0.00011	0.0129	0.0283	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	J	<0.0054	<0.00011	<0.011
	MW2-ROX-101215	10/12/2015		42.15	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.01	0.017	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW2-ROX-011416	1/14/2016		42.04	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.011	0.013	<0.01	0.001 J	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW2-ROX-041316	4/13/2016		41.59	NE	<0.01	<0.01	0.0082 J	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0093	0.0065	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW2-ROX-071416	7/14/2016		40.79	NE	<0.01	<0.00089 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0068	0.014	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW2-ROX101316	10/13/2016	49.87 - 59.87	40.10	NE	<0.0097	<0.0097	<0.029	<0.0097	<0.00019	<0.00019	<0.0097	<0.0097	<0.00019	0.0088	0.0095	<0.0097	<0.019	<0.0097	<0.0097	<0.0097	<0.019	<0.00019	<0.0097	<0.00019	<0.0097
MW-03	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.0053	<0.0053	<0.021 UJ	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053 UJ	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00056 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000019 U	<0.0056	<0.00011	<0.011
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.00028 U	<0.0054	<0.022	<0.025	<0.0001	<0.0001	<0.0054		<0.0001	0.000067 J	<0.0002	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.00003 U	<0.0054	<0.0001	<0.011 UJ
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.00023 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-011515	1/15/2015		29.65	NE	0.00028 J J	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00033 J	0.0003 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000018 J J	<0.0056	<0.00011	<0.011
	MW3-ROX-041015	4/10/2015		31.16	NE	0.00054 J	<0.0053	<0.021	<0.025	0.000024 J J	<0.0001	<0.0053		<0.0001	0.00013 J	0.000097 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	J	<0.0053	0.000018 J	<0.01
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00028 JB	0.00026 JB	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-100915	10/9/2015		27.98	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00035	0.00029	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW3-ROX-010716	1/7/2016		27.92	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00053	0.00045	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW3-ROX-040616	4/6/2016		27.07	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00082	0.00068	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW3-ROX-070816	7/8/2016		26.51	NE	<0.01	<0.0013 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00044	0.00029	<0.01	<0.02	<0.01	<0.01	<0.01	0.0018 J H	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW3-ROX100716	10/7/2016	34.67 - 44.67	25.79	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00041	0.00022	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-04	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.0013 U	<0.0054	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.00027	0.00022	<0.011 UJ	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054	<0.011 UJ	<0.000022 U	0.0164 J	<0.00011	<0.011
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00076 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.000072 J	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.00043 U	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	0.00024	0.00022	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000041 U	<0.0052	<0.0001	<0.01
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.0059	<0.0059	<0.024	<0.13	<0.00012	<0.00012	<0.0059		<0.00012	<0.0024	<0.0024	<0.012	<0.012	<0.0059	<0.012	<0.0059	<0.012	0.000029 J	0.0115	<0.00012	<0.012 UJ
	MW4-ROX-012115	1/21/2015		41.27	NE	0.0011 J	<0.0053	<0.021	<0.025	<0.000018 U	<0.00011	<0.0053		<0.00011	0.00012 JB	<0.00011 U	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000019 U	<0.0053	<0.000022 U	<0.011 UJ
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	<0.0052	<0.0052	<0.021	<0.025	0.000018 J	<0.0001	<0.0052		<0.0001	0.00024 J	0.00021 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00002 J	<0.0052	0.000018 J	<0.01
	MW4-ROX-071415	7/14/2015		41.30	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	0.000018 J	<0.0056		<0.00011	0.00032 J	0.00035 JB J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000018 JB	<0.0056	<0.00011	<0.011
	MW4-ROX-101915	10/19/2015		39.44	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00017 J	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW4-ROX-011316	1/13/2016		39.10	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00028	0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW4-ROX-041916	4/19/2016		38.50	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00015 J	0.000089 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW4-ROX-071416	7/14/2016		37.85	NE	<0.01	<0.00072 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00015 J	0.000069 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW4-ROX-100616	10/6/2016	45.06 - 55.06	37.18	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00016 J	0.000069 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-05	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.0035	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00087 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.0038	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.00037 U	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.00052 B	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000088 U	<0.0053	<0.00011	<0.011
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.00023 U	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.00099 J	<0.0022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.00003 U	0.00072 J	<0.00011	<0.011
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.0053	<0.0053	<0.021	<0.025	0.000037 J J	<0.00011	<0.0053		J	0.00071 J	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000039 J J	<0.0053	0.000038 J J	<0.011
	MW5-ROX-041315	4/13/2015		30.97	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.000099 JB J	0.000031 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0 000053	<0.0053	<0.00011	<0.011
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	0.000026 J	<0.0054		<0.00011	0.000087 JB J	0.00018 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	J	<0.0054	<0.00011	<0.011
	MW5-ROX-101215	10/12/2015		27.53	NE	<0.01	<0.01	<0.03	<0.01	0.000055 J	<0.0002	<0.01	<0.01	0.000086 J	0.00016 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW5-ROX-011416	1/14/2016		27.19	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW5-ROX-040616	4/6/2016		26.80	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00034	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW5-ROX-070816	7/8/2016		26.28	NE	<0.01	<0.001 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW5-ROX-101016	10/10/2016	33.97 - 43.97	25.47	NE	<0.0098	<0.0098	<0.029 UJ	0.0015 J	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	0.00012 J	0.000041 J	<0.0098 UJ	<0.02 UJ	<0.0098	<0.0098 UJ	<0.0098	<0.02 UJ	<0.0002	<0.0098 UJ	<0.0002	<0.0098
MW-06A	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052 UJ	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01 UJ
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053 UJ	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00075 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000054	<0.0056	<0.00011	<0.011 UJ
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00077 U	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000055	<0.0054	<0.00011	<0.011 UJ
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.00026 U	<0.0054	<0.022 UJ	<0.025 UJ	<0.00011	0.00013	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000046 J	<0.0054	<0.00011	<0.011
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.0053	<0.0053	<0.021	<0.025	0.000037 J J	0.000076 J	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000046 J	<0.0053	0.000027 J	<0.011
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.0051	<0.0051	<0.02	<0.025	<0.0001	<0.0001	<0.0051		<0.0001	0.000019 J	0.000023 J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.0057	<0.0057	<0.023	<0.025	<0.00011	0.000058 J	<0.0057		<0.00011	0.000056 J	0.000076 JB J	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.000026 J	<0.0057	<0.00011	<0.011
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6A-ROX-011116	1/11/2016		29.36	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6A-ROX-040716	4/7/2016		29.07	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000036 J	0.000047 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00005 J	<0.01	<0.0002	<0.01
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0.01	0.00086 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW6A-ROX-101116	10/11/2016	34.83 - 44.83	27.51	NE	<0.01	<0.01	<0.03	<0.01 UJ	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-06B	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		0.000043 J	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054 UJ	<0.011	<0.000054	<0.0054 UJ	<0.00011	<0.011 UJ
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00043 U	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000018 J	<0.0053	<0.00011	<0.011
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.0056	<0.0056	<0.022 UJ	<0.025 UJ	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	0.000017 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6B-ROX-040715	4/7/2015		33.10	NE	0.00029 J	<0.0051	<0.02	<0.025	<0.0001	<0.0001	<0.0051		<0.0001	<0.002	<0.002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0 000052	<0.0052	<0.0001	<0.01
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	0.00013	<0.0053		<0.00011	0.0036	0.0068	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	J	<0.0053	<0.00011	<0.011
	MW6B-ROX-100715	10/7/2015		29.80	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000059 J	0.000088 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000029 J	0.000067 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6B-ROX-040716	4/7/2016		29.11	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000045 J	0.000088 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000079 J	<0.01	<0.0002	<0.01
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0.01	0.00055 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.00011 J	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW6B-ROX-101116	10/11/2016	64.05 - 69.05	27.56	NE	<0.01	<0.01	<0.03	<0.01 UJ	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000038 J	0.00006 J	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06C	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053 UJ	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.0004 U	<0.0059	<0.024	<0.025	<0.00012	<0.00012	<0.0059		<0.00012	<0.00024	<0.00024	<0.012	<0.012	<0.0059	<0.012	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.00032 U	<0.0056	<0.022 UJ	<0.025 UJ	<0.00011	<0.00011	<0.0056		0.000035 J	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.0056	<0.0056	<0.022	<0.025	0.000022 J J	<0.00011	<0.0056		<0.00011	<0.0022	0.000028 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000025 J	<0.0056	0.000021 J	<0.011
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	0.000025 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.000064 JB J	0.00014 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-100715	10/7/2015		29.60	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000056 J	0.000083 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6C-ROX-010816	1/8/2016		29.31	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6C-ROX-040716	4/7/2016		28.91	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00003 J	0.000055 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6C-ROX-071116	7/11/2016		28.30	NE	<0.01	0.00059 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000043 J	0.000047 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW6C-ROX-101016	10/10/2016	84.95 - 89.95	27.37	NE	<0.0095	<0.0095 UJ	<0.029	<0.0095 UJ	<0.00019	<0.00019	<0.0095	<0.0095	<0.00019	0.000049 J	0.000077 J	<0.0095	<0.019 UJ	<0.0095	<0.0095	<0.0095	<0.019	<0.00019	<0.0095	<0.00019	<0.0095
MW-06D	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052 UJ	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01 UJ
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00039 U	<0.0055	<0.022	<0.025	<0.00011	<0.00011	<0.0055		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.00027 U	<0.0056	<0.022 UJ	<0.025 UJ	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00029 U	<0.0054	<0.022 UJ	<0.025 UJ	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.0054	<0.0054	<0.022	<0.025	0.000031 J J	0.000018 J	<0.0054		<0.00011	0.000015 J	0.000033 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000033 J	<0.0054	0.000027 J	<0.011
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	0.00027 J J	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	0.000026 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00011 JB J	0.00023 JB J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000081 J	0.00012 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6D-ROX-010816	1/8/2016		29.59	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6D-ROX-010816-DUP	1/8/2016		29.59	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW6D-ROX-040716	4/7/2016		28.76	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00005 J	<0.01	<0.01	<0.0002	0.000051 J	0.0001 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.0001 J	<0.01	<0.0002	<0.01
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000034 J	0.000064 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000045 J	<0.01	<0.0002	<0.01
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0.01	0.00079 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000045 J	0.000051 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0.01	0.00082 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW6D-ROX-101016	10/10/2016	104.72 - 109.72	27.26	NE	<0.01	<0.01	<0.029 UJ	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000032 J	0.000058 J	<0.0098 UJ	<0.02 UJ	<0.01	<0.0098 UJ	<0.01	<0.02 UJ	<0.0002	<0.0098 UJ	<0.0002	<0.01
	MW6D-ROX-101016-DUP	10/10/2016		27.26	NE	<0.01	<0.01	<0.029 UJ	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000038 J	0.000064 J	<0.0098 UJ	<0.02 UJ	<0.01	<0.0098 UJ	<0.01	<0.02 UJ	<0.0002	<0.0098 UJ	<0.0002	<0.01

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SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-07	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<0.0007 U	<0.005	<0.02	<63	<0.0001	0.00021	<0.005		<0.0001	0.0059	0.0083	<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	0.00029	0.0314	<0.0001	<0.01
	MW7-ROX-041614	4/16/2014		43.79	NE	<0.00071 U	<0.0052	<0.021	<130	<0.0001	0.00026	<0.0052		<0.0001	0.0074	0.0103	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00033 B	0.0988	<0.0001	<0.01
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.00027 U	<0.0052	<0.021	<0.025	<0.0001	0.00021	<0.0052		<0.0001	0.0052	0.0079	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00028	0.0618	<0.0001	<0.01
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.00038 U	<0.0052	<0.021	<0.025	<0.0001	0.00019	<0.0052		<0.0001	0.0052	0.0077	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00026	0.0638	<0.0001	<0.01
	MW7-ROX-101614	10/16/2014		41.31	NE	<0.0056	<0.0056	<0.022	<130	<0.00011	0.0002	<0.0056		<0.00011	0.0049	0.0074	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00028	0.155	<0.00011	<0.011 UJ
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<0.0057	<0.0057	<0.023	<130	<0.00011	0.00019	<0.0057		<0.00011	0.0047	0.007	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.00027	0.133	<0.00011	<0.011 UJ
	MW7-ROX-012215	1/22/2015		43.45	NE	0.00035 J	<0.0053	<0.021	<25	<0.000063 U	0.00024	<0.0053		0.00003 J	0.0053	0.0068	<0.011	0.00059 J	<0.0053	<0.011	<0.0053	<0.011	0.00049	0.145	<0.000099 U	<0.011
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00027 J	<0.0052	<0.021	<25	<0.000021 U	0.00022	<0.0052		<0.0001	0.0052	0.0066	<0.01	0.00056 J	<0.0052	<0.01	<0.0052	<0.01	0.00045	0.136	<0.000058 U	<0.01
	MW7-ROX-042115	4/21/2015		44.63	NE	<0.0051	<0.0051	<0.02	<1.3	<0.0001	0.00033	<0.0051		<0.0001	0.008	0.01	0.00037 J	0.0011 J	<0.0051	<0.01	<0.0051	<0.01	0.00066	0.0707	0.000057 J	<0.01
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	<0.0051	<0.0051	<0.02	<1.3	0.000026 J	0.0003	<0.0051		<0.0001	0.0074	0.0093	0.00032 J	0.0011 J	<0.0051	<0.01	<0.0051	<0.01	0.00063	0.0766	0.000066 J	<0.01
	MW7-ROX-071515	7/15/2015		43.54	NE	0.00063 J	<0.0051	<0.02	<130	0.000019 J	0.00021	<0.0051		<0.0001	0.0047	0.0065	<0.01	0.0031 J	<0.0051	<0.01	<0.0051	<0.01	0.00031	0.104	0.000052 J	<0.01
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	0.00057 J	<0.0052	<0.021	<130	0.000023 J	0.00018	<0.0052		<0.0001	0.0055	0.0082	<0.01	0.0032 J	<0.0052	<0.01	<0.0052	<0.01	0.00034	0.117	0.000053 J	<0.01
	MW7-ROX-101915	10/19/2015		41.43	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0018 J	<0.0002	0.0029	0.0041	<0.01	0.0018 J	<0.01	<0.01	<0.01	<0.02	0.00014 J	0.13	<0.0002	<0.01
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00011 J	<0.01	0.0018 J	<0.0002	0.0026	0.0037	<0.01	0.0018 J	<0.01	<0.01	<0.01	<0.02	0.00019 J	0.12	<0.0002	<0.01
	MW7-ROX-011416	1/14/2016		41.02	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0018 J	<0.0002	0.004	0.0053	<0.01	0.0017 J	<0.01	<0.01	<0.01	<0.02	0.00041	0.18	<0.0002	<0.01
	MW7-ROX-011416-DUP	1/14/2016		41.02	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0019 J	<0.0002	0.0048	0.0061	<0.01	0.002 J	<0.01	<0.01	<0.01	<0.02	0.00056	0.32	<0.0002	<0.01
	MW7-ROX-041916	4/19/2016		40.68	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0023 J	<0.0002	0.0034	0.0051	<0.01	0.0034 J	<0.01	<0.01	<0.01	<0.02	0.00021	0.25	<0.0002	<0.01
	MW7-ROX-041916-DUP	4/19/2016		40.68	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0022 J	<0.0002	0.004	0.0059	<0.01	0.0026 J	<0.01	<0.01	<0.01	<0.02	0.00025	0.18	<0.0002	<0.01
	MW7-ROX-071416	7/14/2016		39.99	NE	<0.01	<0.00075 U	<0.03	<0.01	<0.0002	0.00026	<0.01	<0.01	<0.0002	0.004 J	0.005 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00041	0.16	<0.0002	<0.01
	MW7-ROX-071416-DUP	7/14/2016		39.99	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00018 J	<0.01	0.0014 J	<0.0002	0.0028 J	0.0034 J	<0.01	0.0026 J	<0.01	<0.01	<0.01	<0.02	0.00031	0.19	<0.0002	<0.01
	MW7-ROX-100616	10/6/2016	42.92 - 52.92	39.24	NE	<0.01	<0.01 UJ	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0031	0.0043	0.004 J	0.0049 J	<0.01	<0.01	<0.01	<0.02	<0.0002	0.46	<0.0002	<0.01
	MW7-ROX-100616-DUP	10/6/2016		39.24	NE	<0.01	0.00046 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0029	0.0039	0.0044 J	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.43	<0.0002	<0.01
MW-08	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<0.0011 U	<0.0051	<0.02	<63	<0.0001	0.00054	<0.0051		<0.0001	0.0137	0.0123	0.0128	0.0198	<0.0051	<0.01	<0.0051	<0.01	0.00018	0.105	<0.0001	<0.01
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<0.00092 U	<0.0054	<0.022	<63	<0.00011	0.00052	<0.0054		<0.00011	0.0136	0.0123	0.0129	0.019	<0.0054	<0.011	<0.0054	<0.011	0.00019	0.135	<0.00011	<0.011
	MW8-ROX-041614	4/16/2014		34.73	NE	<0.00073 U	<0.0056	<0.022	<50	<0.00011	0.00046	<0.0056		<0.00011	0.0142	0.0097	<0.011	0.0062 J	<0.0056	<0.011	<0.0056	<0.011	0.00015 B J	0.135	<0.00011	<0.011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<0.0006 U	<0.0051	<0.02	<50	<0.0001	0.00043	<0.0051		<0.0001	0.0129	0.0086	<0.01	0.0053 J	<0.0051	<0.01	<0.0051	<0.01	0.00016 B J	0.118	<0.0001	<0.01
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.00045 U	<0.0052	<0.021	<0.025 UJ	<0.0001	0.00038	<0.0052		<0.0001	0.0125	0.0048	0.0037 J	0.0045 J	<0.0052	<0.01	<0.0052	<0.01	0.0002 B	0.111	<0.0001	<0.01
	MW8-ROX-101614	10/16/2014		32.23	NE	<0.0056	<0.0056	<0.022	<25	<0.00011	0.00054	<0.0056		<0.00011	0.0145	0.0045	0.019	0.0558	<0.0056	<0.011	<0.0056	<0.011	0.00023	0.126	<0.00011	<0.011 UJ
	MW8-ROX-012215	1/22/2015		34.22	NE	0.00027 J	<0.0052	<0.021	<25	<0.0001	0.00037	<0.0052		<0.0001	0.011	0.0046	0.0102	0.0242	<0.0052	<0.01	<0.0052	<0.01	0.00016 B	0.146	<0.0001	<0.01
	MW8-ROX-042115	4/21/2015		35.41	NE	<0.0053	<0.0053	<0.021	<1.3	<0.00011	0.00041	<0.0053		<0.00011	0.0126	0.0053	0.0049 J	0.0063 J	<0.0053	<0.011	<0.0053	<0.011	0.00014	0.129	<0.00011	<0.011
	MW8-ROX-071515	7/15/2015		34.07	NE	<0.0053	<0.0053	<0.021	<130	<0.00011	0.0003	<0.0053		<0.00011	0.0113	0.0083	0.0018 J	0.0046 J	<0.0053	<0.011	<0.0053	<0.011	0.00016	0.135	<0.00011	<0.011
	MW8-ROX-101915	10/19/2015		32.30	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00018 J	<0.01	0.0015 J	<0.0002	0.0087	0.0052	0.0024 J	0.0054 J	<0.01	<0.01	<0.01	<0.02	<0.0002	0.21	<0.0002	<0.01
	MW8-ROX-011416	1/14/2016		31.79	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0023 J	<0.0002	0.015	0.007	0.0077 J	0.016 J	<0.01	<0.01	<0.01	<0.02	<0.0002	0.22	<0.0002	<0.01
	MW8-ROX-041916	4/19/2016		31.45	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00035	<0.01	0.0019 J	<0.0002	0.014	0.0063	0.0028 J	0.0036 J	<0.01	<0.01	<0.01	<0.02	0.00013 J	0.27	<0.0002	<0.01
	MW8-ROX-071416	7/14/2016		30.80	NE	<0.01	<0.00071 U	<0.03	<0.01	<0.0002	0.00024	<0.01	0.0014 J	<0.0002	0.0082	0.0038	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.13	<0.0002	<0.01
	MW8-ROX-100616	10/6/2016	33.60 - 43.60	29.99	NE	<0.01	<0.01 UJ	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0098	0.0028	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.29	<0.0002	<0.01
MW-09	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.0053	<0.0053	<0.021 UJ	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00062 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	0.0001 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056 U	<0.0056	<0.00011	<0.011 UJ
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.0006 U	<0.0054	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.0059	<0.0059	<0.024	<0.025	<0.00012	<0.00012	<0.0059		<0.00012	<0.0024	<0.0024	<0.012	<0.012	<0.0059	<0.012	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW9-ROX-011315	1/13/2015		44.21	NE	0.00023 J	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000016 JB	<0.0052	<0.0001	<0.01 UJ
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	0.000027 J	<0.0052		<0.0001	<0.0021	0.000018 JB J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000026 J	<0.0052	<0.0001	<0.01
	MW9-ROX-070915	7/9/2015		44.81	NE	0.00042 J	<0.0055	<0.022	<0.025 UJ	<0.00011	<0.00011	<0.0055		<0.00011	0.000073 J	0.00013 J	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	0.000044 J	<0.0055	<0.00011	<0.011
	MW9-ROX-100815	10/8/2015		42.64	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000034 J	0.000053 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW9-ROX-011316	1/13/2016		42.63	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW9-ROX-041216	4/12/2016		41.98	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000025 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW9-ROX-071316	7/13/2016		40.93	NE	<0.01	<0.00066 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000027 J	0.000027 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW9-ROX-101316	10/13/2016	46.45 - 56.45	40.39	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000026 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-10	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.0053	<0.0053	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0053		0.000072 J	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053	<0.011 UJ	0.000037 JB	<0.0054 UJ	<0.00011	<0.011
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00085 U	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000042 U	<0.0053	<0.00011	<0.011 UJ
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.00065 U	<0.0054	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.0057	<0.0057	<0.023	<0.025	<0.00011	<0.00011	<0.0057		<0.00011	<0.0023	<0.0023	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.000018 U	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.0051	<0.0051	<0.02	<0.025	0.000016 J	<0.0001	<0.0051		<0.0001	<0.002	0.00002 JB	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.000019 J	<0.0051	<0.0001	<0.01
	MW10-ROX-070915	7/9/2015		44.93	NE	0.00064 J	<0.0054	<0.022	<0.025 UJ	0.000057 J	0.000037 J	<0.0054		0.000024 J	0.000035 J	0.000058 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000077	<0.0054	0.000059 J	<0.011
	MW10-ROX-100915	10/9/2015		42.79	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000039 J	0.000063 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW10-ROX-011316	1/13/2016		42.53	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW10-ROX-041116	4/11/2016		41.88	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000034 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW10-ROX-071316	7/13/2016		41.00	NE	<0.01	<0.00056 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00003 J	0.000033 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW10-ROX-101216	10/12/2016	44.43 - 54.43	40.27	NE	<0.011	<0.011	<0.032	<0.011	<0.00021	<0.00021	<0.011	<0.011	<0.00021	<0.00021	<0.00021	<0.011	<0.021	<0.011	<0.011	<0.011	<0.021	<0.00021	<0.011	<0.00021	<0.011
MW-11	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.0055	<0.0055	<0.022	<0.025	<0.00011	<0.00011	<0.0055		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000026 U	<0.0055	<0.00011	<0.011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.0007 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000023 U	<0.0056	<0.00011	<0.011 UJ
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.00042 U	<0.0057	<0.023 UJ	<0.025	<0.00011	<0.00011	<0.0057		<0.00011	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.00003 J	<0.0057	<0.00011	<0.011
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	<0.00002 U	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	0.000022 JB	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.0054	<0.0054	<0.022	<0.025 UJ	<0.00011	<0.00011	<0.0054		<0.00011	0.000029 J	0.000045 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000029 J	<0.0054	<0.00011	<0.011
	MW11-ROX-100815	10/8/2015		40.15	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000029 J	0.000034 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW11-ROX-011216	1/12/2016		40.33	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW11-ROX-041116	4/11/2016		39.49	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW11-ROX-071316	7/13/2016		38.59	NE	<0.01	<0.00065 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW11-ROX-101216	10/12/2016	41.66 - 51.66	37.93	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	<0.0002	<0.0002	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0.0002	<0.0098
MW-12	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.0052	<0.0052	<0.021 UJ	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01 UJ	<0.01 UJ	<0.0052	<0.01 UJ	<0.0052	<0.01 UJ	<0.000022 U	<0.0052 UJ	<0.0001	<0.01
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.0006 U	<0.0051	<0.02	<0.025	<0.00011	<0.00011	<0.0051		<0.00011	<0.00023	<0.00023	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.000021 J	<0.0051	<0.00011	<0.01 UJ
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.00098 U	<0.0056	<0.022 UJ	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW12-ROX-011215	1/12/2015		42.33	NE	0.00023 J	<0.0056	<0.022	<0.025	0.00002 J	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000018 J	<0.0056	<0.00011	<0.011 UJ
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.0053	<0.0053	<0.021	<0.025	0.000019 J	<0.00011	<0.0053		<0.00011	0.000018 J	0.000031 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.00002 U	<0.0053	0.000016 J	<0.011
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.0056	<0.0056	<0.022	<0.025 UJ	0.00012	0.00003 J	<0.0056		0.000059 J	0.000035 J	0.000079 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000067 J	<0.0056	0.000081 J	<0.011
	MW12-ROX-100815	10/8/2015		40.54	NE	<0.01	<0.01	<0.03	<0.01	0.000039 J	<0.0002	<0.01	<0.01	<0.0002	0.00006 J	0.000081 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000021 J	<0.01
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.01	<0.01	<0.03	<0.01	0.000039 J	<0.0002	<0.01	<0.01	<0.0002	0.000036 J	0.000055 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000021 J	<0.01
	MW12-ROX-011116	1/11/2016		40.98	NE	<0.01	<0.01	<0.03	<0.01	0.00037	<0.0002	<0.01	<0.01	0.00014 J	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000088 J	<0.01	0.00016 J	<0.01
	MW12-ROX-040716	4/7/2016		39.82	NE	<0.01	<0.01	<0.03	<0.01	0.000074 J	0.000069 J	<0.01	<0.01	0.000064 J	0.000046 J	0.000086 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00014 J	<0.01	0.000039 J	<0.01
	MW12-ROX-071216	7/12/2016		38.89	NE	<0.01	0.00055 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000051 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW12-ROX-101116	10/11/2016	41.92 - 51.92	38.85	NE	<0.01	<0.01	<0.03	<0.01 UJ	0.000052 J	<0.0002	<0.01	<0.01	<0.0002	0.000025 J	0.000036 J	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000029 J	<0.01
MW-13	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.0055	<0.0055	<0.022	<0.025	<0.00011	<0.00011	<0.0055		<0.00011	<0.000096 U	<0.00022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.00079 U	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	<0.00024	<0.00024	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	0.000033 J	<0.006	<0.00012	<0.012
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.0055	<0.0055	<0.022	<0.025	<0.00011	<0.00011	<0.0055		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.006	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	<0.0024	<0.0024	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	0.000032 J	<0.006	<0.00012	<0.012
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.00034 U	<0.0053	<0.021	<0.025	0.000022 J	0.000035 J	<0.0053		<0.00011	0.00004 J	0.00008 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000025 J	<0.0053	0.000046 J	<0.011
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.0056	<0.0056	<0.022	<0.025	0.000025 J	0.000066 J	<0.0056		<0.00011	0.000029 J	0.000055 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00007	<0.0056	0.000023 J	<0.011
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.0053	<0.0053	<0.021	<0.025 UJ	<0.00011	<0.00011	<0.0053		<0.00011	0.000031 J	0.000047 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.00032 J	0.000016 J	<0.011
	MW13-ROX-100515	10/5/2015		27.34	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00085	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW13-ROX-010716	1/7/2016		27.16	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00021	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW13-ROX-040816	4/8/2016		26.81	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW13-ROX-071116	7/11/2016		26.01	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW13-ROX100716	10/7/2016	25.57 - 35.57	25.16	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-14	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	0.00045 J	<0.0054	<0.022	<0.025	<0.00011	0.00041	<0.0054		<0.00011	0.0075	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.00082 U	<0.006	<0.024	<0.025	<0.00011	0.0003	<0.006		<0.00011	0.0018	<0.00023	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	<0.000057	<0.006	<0.00011	<0.012
	MW14-ROX-070714	7/7/2014		32.82	NE	0.00031 J	<0.0054	<0.022	<0.025	<0.00011	0.00024	<0.0054		<0.00011	0.0014	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.00024 J	<0.0054	<0.00011	<0.011
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.00056 U	<0.0056	<0.022	<0.025	<0.00011	0.00024	<0.0056		<0.00011	0.0014 J	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011	<0.011
	MW14-ROX-011615	1/16/2015		33.58	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	0.00013	<0.0053		<0.00011	0.00012 J	0.000026 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000021 J	<0.0053	<0.00011	<0.011
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.0052	<0.0052	<0.021	<0.025	<0.00011	0.00017	<0.0052		<0.00011	0.00007 J	0.000018 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000054	<0.0052	<0.00011	<0.01
	MW14-ROX-070915	7/9/2015		34.06	NE	0.00044 J	<0.0052	<0.021	<0.025 UJ	0.000016 J	0.00017	<0.0052		<0.0001	0.00019 J	0.00012 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000062	<0.0052	0.000017 J	<0.01
	MW14-ROX-101315	10/13/2015		31.88	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00013 J	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW-14-ROX-010816	1/8/2016		31.64	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.000095 J	<0.01	<0.01	0.000066 J	0.00013 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW14-ROX-041416	4/14/2016		31.32	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.000084 J	<0.01	<0.01	<0.0002	0.000084 J	0.00004 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW14-ROX-071116	7/11/2016		30.59	NE	<0.01	0.00054 J J	<0.03	<0.01	<0.0002	0.000029 J	<0.01	<0.01	<0.0002	0.000057 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW14-ROX-101416	10/14/2016	33.42 - 43.42	29.62	NE	<0.0095 UJ	J	<0.029 UJ	<0.0095 UJ	<0.00019	0.00004 J *	<0.0095 UJ	<0.0095 UJ	<0.00019	0.000095 J J	0.000046 J J	<0.0095 UJ	<0.019 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.019 UJ	<0.00019	<0.0095 UJ	<0.00019	<0.0095 UJ
MW-16	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000031 U	<0.0052	<0.0001	<0.01
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00067 U	<0.0059	<0.024	<0.025	<0.00012	<0.00012	<0.0059		<0.00012	<0.00024	<0.00024	<0.012	<0.012	<0.0059	<0.012	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.00021 U	<0.0054	<0.022 UJ	<0.025 UJ	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.006	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	<0.0024	<0.0024	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.000016 U	<0.000022 U	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.000026 JB J	0.000039 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW16-ROX-070915	7/9/2015		44.26	NE	0.00043 J	<0.0055	<0.022	<0.025 UJ	<0.00011	0.000037 J	<0.0055		<0.00011	0.000067 J	0.00012 J	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	0.000043 J	<0.0055	<0.00011	<0.011
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.0056	<0.0056	<0.022	<0.025 UJ	<0.00011	<0.00011	<0.0056		<0.00011	0.000047 J	0.000074 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000023 J	<0.0056	<0.00011	<0.011
	MW16-ROX-100715	10/7/2015		41.83	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000045 J	0.000073 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW16-ROX-011216	1/12/2016		41.99	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW16-ROX-040816	4/8/2016		41.17	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW16-ROX-071216	7/12/2016		39.93	NE	<0.01	0.00072 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW16-ROX-101116	10/11/2016	37.06 - 47.06	39.64	NE	<0.0099	<0.0099	<0.03	<0.0099 UJ	<0.0002	<0.0002	<0.0099	<0.0099	<0.0002	0.00002 J	0.000033 J	<0.0099 UJ	<0.02 UJ	<0.0099	<0.0099	<0.0099	<0.02	<0.0002	<0.0099	<0.0002	<0.0099
MW-22	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	<0.027	<0.027	<0.11	<0.025	<0.00011	0.00017	<0.027		<0.00011	0.0258	0.0459	0.0124 J	0.0313 J	<0.027	<0.053	<0.027	<0.053	0.0002 B	0.0071 J	<0.00011	<0.053 UJ
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.027	<0.027	<0.11	<0.025	<0.00011	0.00015	<0.027		<0.00011	0.0232	0.0416	0.0118 J	0.0296 J	<0.027	<0.054	<0.027	<0.054	0.0002 B	0.007 J	<0.00011	<0.054 UJ
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.0016 U	<0.028	<0.11	<0.025	<0.00011	<0.00011	<0.028		<0.00011	0.0174	0.0287	0.0156 J	0.035 J	<0.028	<0.056	<0.028	<0.056	0.0001	<0.028	<0.00011	<0.056
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.0018 U	<0.028	<0.11	<0.025	<0.00011	0.00012	<0.028		<0.00011	0.0199	0.0322	0.0159 J	0.038 J	<0.028	<0.056	<0.028	<0.056	0.0001	<0.028	<0.00011	<0.056
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.00057 U	<0.0054	<0.022	<0.025	<0.00011	0.00015	<0.0054		<0.00011	0.0198	0.0355	0.0102 J	0.0204	<0.0054	<0.011	<0.0054	<0.011	<0.00018 U	<0.0054	<0.00011	<0.011
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.0063	<0.0063	<0.025	<0.25	<0.00013	0.00014	<0.0063		<0.00013	0.0193	0.0339	0.0064 J	0.011 J	<0.0063	<0.013	<0.0063	<0.013	0.00036	0.0079	<0.00013	<0.013
	MW22-ROX-011615	1/16/2015		42.19	NE	<0.0053	<0.0053	<0.021	<0.25	<0.00011	0.00051	<0.0053		<0.00011	0.0153	0.0184	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000064	0.0119	<0.00011	<0.011
	MW22-ROX-041415	4/14/2015		43.71	NE	<0.0052	<0.0052	<0.021	<0.025	0.000016 J	0.00021	<0.0052	0.047 JN	<0.0001	0.024	0.0397	<0.01	0.0201	<0.0052	<0.01	<0.0052	<0.01	0.00013	0.0108	0.00002 J	<0.01
	MW22-ROX-071515	7/15/2015		42.64	NE	<0.029	<0.029	<0.11	<0.5	<0.00011	0.00011	<0.029	0.033 JN	<0.00011	0.0216	0.0374	0.0075 J	<0.057	<0.029	<0.057	<0.029	<0.057	0.000099	<0.029	<0.00011	<0.057
	MW22-ROX-101415	10/14/2015		40.54	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.021	<0.0002	0.015	0.026	0.0055 J	0.0097 J	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0082 J	<0.0002	0.0038 J * J
	MW22-ROX-011516	1/15/2016		40.42	NE	<0.01	<0.01	<0.03	<0.01	<0.002	<0.002	<0.01	0.029	<0.002	0.022	0.038	0.0095 J	0.021	<0.01	<0.01	<0.01	<0.02	<0.002	0.015	<0.002	0.0032 J
	MW22-ROX-011516-DUP	1/15/2016		40.42	NE	<0.01	<0.01	<0.03	<0.01	<0.002	<0.002	<0.01	0.027	<0.002	0.019	0.033	0.0083 J	0.019 J	<0.01	<0.01	<0.01	<0.02	<0.002	0.013	<0.002	<0.01
	MW22-ROX-041316	4/13/2016		39.56	NE	<0.01 UJ	<0.01 UJ	<0.03 UJ	<0.01 UJ	<0.0002	<0.0002	<0.01 UJ	0.032 H J	<0.0002	0.019	0.026	<0.01 UJ	0.018 J H J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	<0.0002	<0.01 UJ	<0.0002	<0.01 UJ
	MW22-ROX-041316-DUP	4/13/2016		39.56	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.02	<0.0002	0.014	0.016	0.016	0.014 J	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW22-ROX-071516	7/15/2016		38.97	NE	<0.01	<0.00072 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0043 J	<0.0002	0.0032 J	0.0048	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW22-ROX-071516-DUP	7/15/2016		38.97	NE	<0.01	<0.00086 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.005 J	<0.0002	0.0041 J	0.006	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW22-ROX-101716	10/17/2016	37.88 - 47.88	38.17	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.00098	<0.00098	<0.0098	<0.0098	<0.00098	0.0061	0.0079 J	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.00098	<0.0098	<0.00098	<0.0098
	MW22-ROX-101716-DUP	10/17/2016		38.17	NE	<0.0098	<0.0098 UJ	<0.029	<0.0098	<0.00098	<0.00098	<0.0098	0.0076 J	<0.00098	0.0048	0.006 J	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.00098	<0.0098	<0.00098	<0.0098
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.005	<0.005	<0.025	<0.2	<0.001	0.00096 J	<0.005 UJ		<0.0002	0.0019	0.00056 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.0037	<0.005	<0.001	<0.01
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.0051	<0.0051	<0.02	<0.025	0.000029 J	0.000053 J	<0.0051		<0.0001	0.000036 JB J	0.000028 JB J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.00057	<0.0051	0.00015	<0.01
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.0056	<0.0056	<0.022	<0.025	0.00002 J	0.000025 J	<0.0056		<0.00011	0.000045 JB J	0.000079 JB J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000052 J	<0.0056	0.000068 J	<0.011
	MW23-ROX-100515	10/5/2015		28.89	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000072 J	0.00011 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW-23-ROX-010716	1/7/2016		28.78	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	0.000022 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000027 J	<0.01
	MW-23-ROX-040616	4/6/2016		27.96	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW-23-ROX-070816	7/8/2016		27.54	NE	<0.01	<0.0015 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000033 J	0.000039 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW23-ROX-BP-100716	10/7/2016	29.02 - 39.02	26.64	NE	<0.0098	<0.0098 UJ	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	0.00002 J	0.000024 J	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0.0002	<0.0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-24	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00092 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW24-ROX-011315	1/13/2015		43.17	NE	0.00023 J	<0.0053	<0.021	<0.025	<0.00011	0.000059 J	<0.0053		<0.00011	0.00009 JB	<0.000099 U	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000037 J	<0.0053	<0.00011	<0.011 UJ
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.00002 JB J	0.000035 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.0052	<0.0052	<0.021	<0.025 UJ	<0.0001	<0.0001	<0.0052		<0.0001	0.000049 J	0.000081 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000041 J	<0.0052	<0.0001	<0.01
	MW24-ROX-100715	10/7/2015		41.45	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000057 J	0.000087 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW24-ROX-011316	1/13/2016		41.44	NE	<0.01	<0.01	<0.03	<0.01	0.000036 J	<0.0002	<0.01	<0.01	0.000057 J	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000034 J	<0.01
	MW24-ROX-040816	4/8/2016		40.79	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW24-ROX-071216	7/12/2016		39.67	NE	<0.01	0.00073 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00003 J	0.000035 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW24-ROX-101116	10/11/2016	38.89 - 48.89	39.19	NE	<0.01	<0.01	<0.03	<0.01 UJ	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000021 J	0.000029 J	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.0056	<0.0056	<0.022	<50	<0.00011	<0.00011	<0.0056		<0.00011	0.00093 J	0.00057 J	0.0011 J	0.0028 J	<0.0056	<0.011	<0.0056	<0.011	0.000033 J	0.173	<0.00011	<0.011
	MW25-ROX-012215	1/22/2015		38.45	NE	0.00028 J	<0.0052	<0.021	<6.3	<0.000018 U	<0.0001	<0.0052		<0.0001	0.00036 J	0.00015 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000052	0.107	<0.000019 U	<0.01
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.0051	<0.0051	<0.02	<1.3	<0.0001	<0.0001	<0.0051		<0.0001	0.00067 J	0.00035 J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	0.0592	<0.0001	<0.01
	MW25-ROX-071515	7/15/2015		38.40	NE	<0.0052	<0.0052	<0.021	<5	<0.0001	0.000019 J	<0.0052		<0.0001	0.00088 J	0.00049 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000017 J	0.112	<0.0001	<0.01
	MW25-ROX-101915	10/19/2015		36.55	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00026	0.00014 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.071	<0.0002	<0.01
	MW25-ROX-011416	1/14/2016		36.12	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0004	0.00017 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.049	<0.0002	<0.01
	MW25-ROX-041916	4/19/2016		35.67	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00031	0 00015 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.031	<0.0002	<0.01
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.01 UJ	<0.0023 UJ	<0.03 UJ	<0.01 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	J	J	<0.01 UJ	<0.02 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	<0.0002 UJ	0.02 H J	<0.0002 UJ	<0.01 UJ
	MW25-ROX-100616	10/6/2016	35.59 - 45.59	34.27	NE	<0.01	0.00064 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00021	0.000049 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0095 J	<0.0002	<0.01
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.000017 U	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000015 J	<0.0052	<0.0001	<0.01 UJ
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.0053	<0.0053	<0.021	<0.025 UJ	<0.00011	<0.00011	<0.0053		<0.00011	0.000046 J	0.000065 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00003 J	<0.0053	<0.00011	<0.011
	MW26-ROX-100615	10/6/2015		39.19	NE	<0.01	0.00055 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000083 J	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW26-ROX-010716	1/7/2016		39.55	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW26-ROX-040616	4/6/2016		38.44	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW26-ROX-071216	7/12/2016		37.74	NE	<0.01	0.00058 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW26-ROX-101016	10/10/2016	38.15 - 48.15	37.13	NE	<0.01	0.00051 J J	<0.03	<0.01 UJ	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0001 J	0.00016 J	<0.01	<0.02 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW27-ROX-011515	1/15/2015		42.06	NE	0.00026 J J	<0.0053 UJ	<0.021	<0.025	<0.00011	0.000023 J J	<0.0053		J	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000028 J J	<0.0053	0.000019 J J	<0.011
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.0054	<0.0054	<0.022	<0.025	0.000024 J J	<0.00011	<0.0054		<0.00011	0.000036 J	0.00007 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	J	<0.0054	0.000018 J	<0.011
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00005 JB J	0.000086 JB J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW27-ROX-100815	10/8/2015		40.32	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000035 J	0.000051 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW27-ROX-011316	1/13/2016		40.68	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW27-ROX-041116	4/11/2016		39.73	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000034 J	0.000051 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW-27-ROX-071316	7/13/2016		38.94	NE	<0.01	<0.00054 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00002 J	0.000028 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	MW27-ROX-101216	10/12/2016	39.79 - 49.79	38.50	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	<0.0002	<0.0002	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0.0002	<0.0098
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	0.00026 J	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.00075 J	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000017 J	<0.0053	<0.00011	<0.011
	MW28-ROX-011515	1/15/2015		41.14	NE	0.00033 J J	<0.0055	<0.022	<0.025	<0.00011	<0.00011	<0.0055		<0.00011	0.00047 J	<0.0022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.0057	<0.0057	<0.023	<0.025	<0.00011	<0.00011	<0.0057		0.000035 J	0.00024 J	0.000037 J	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00021 J J	0.0001 JB J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00002 J	<0.0056	<0.00011	<0.011
	MW28-ROX-101215	10/12/2015		40.04	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000069 J	0.00007 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000033 J	0.000028 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW28-ROX-011416	1/14/2016		39.98	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.013	<0.0002	<0.01
	MW28-ROX-041216	4/12/2016		39.20	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000048 J	0.000055 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.01	<0.00084 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW28-ROX-101316	10/13/2016	33.61 - 43.61	37.86	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	0.000057 J	0.000034 J	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0.0002	<0.0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-54	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00062 U	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	<0.00024	<0.00024	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	P54-ROX-071114	7/10/2014		41.71	NE	<0.00028 U	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.00011 J	0.00013 J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000051 U	<0.0054	<0.00011	<0.011 UJ
	P54-ROX-100814	10/8/2014		40.88	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	P54-ROX-011415	1/14/2015		41.79	NE	<0.0056	<0.0056	<0.022	<0.025	0.000021 J J	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00002 J	<0.0056	0.00003 J	<0.011
	P54-ROX-041015	4/10/2015		43.20	NE	<0.0053	<0.0053	<0.021	<0.025	0.00002 J J	<0.00011	<0.0053		<0.00011	0.000024 J	0.000046 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	J	<0.0053	0.000018 J	<0.011
	P54-ROX-070915	7/9/2015		42.25	NE	<0.0052	<0.0052	<0.021	<0.025 UJ	<0.0001	0.000019 J	<0.0052		<0.0001	0.000089 J	0.00015 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000041 J	<0.0052	<0.0001	<0.01
	P54-ROX-100915	10/9/2015		40.20	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000037 J	0.000063 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P54-ROX-011216	1/12/2016		40.22	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P54-ROX-041216	4/12/2016		39.42	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P54-ROX-071216	7/12/2016		38.44	NE	<0.01	0.00083 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000038 J	0.000049 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P54-ROX-101216	10/12/2016	38.00 - 63.00	37.85	NE	<0.0098	0.00086 J	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	0.000038 J	0.000043 J	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0.0002	<0.0098
P-56	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	0.00035	<0.0052		<0.0001	0.0193	0.0228	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.0012	<0.0052	<0.0001	<0.01
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051 J	<0.0059	<0.024	<0.025	<0.00012	0.00038	<0.0059		<0.00012	0.0223	0.0269	<0.012	0.0008 J	<0.0059	<0.012	<0.0059	<0.012	0.0012	<0.0059	<0.00012	<0.012
	P56-ROX-070814	7/8/2014		45.97	NE	<0.0056	<0.0056	<0.022	<0.025 UJ	<0.00011	0.00036	<0.0056		<0.00011	0.0181	0.0243	<0.011	0.0165	<0.0056	<0.011	<0.0056	<0.011	0.001	<0.0056	<0.00011	<0.011
	P56-ROX-101314	10/13/2014		45.05	NE	<0.00035 U	<0.0054	<0.022	<0.025	<0.00011	0.00041	<0.0054		<0.00011	0.0235	0.0296	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.0015	<0.0054	<0.00011	<0.011 UJ
	P56-ROX-011915	1/19/2015		46.58	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	0.0003	<0.0054		<0.00011	0.0197	0.0223	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.0011	<0.0054	0.00003 J	<0.011
	P56-ROX-041515	4/15/2015		48.05	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	0.00041	<0.0054		<0.00011	0.026	0.0293	<0.011	0.0011 J	<0.0054	<0.011	<0.0054	<0.011	0.0013	<0.0054	0.000027 J J	<0.011
	P56-ROX-071015	7/10/2015		47.34	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	0.00033	<0.0053		<0.00011	0.0262	0.0119	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.0014	<0.0053	0.000029 J	<0.011
	P56-ROX-101415	10/14/2015		44.85	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00018 J	<0.01	<0.01	<0.0002	0.013	0.011 J	<0.01	0.29	<0.01	<0.01	<0.01	<0.02	0.00082	<0.01	<0.0002	<0.01 UJ
	P56-ROX-011116	1/11/2016		44.78	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00044	<0.01	<0.01	<0.0002	0.021	0.019	<0.01	0.0028 J	<0.01	<0.01	<0.01	<0.02	0.0014	<0.01	<0.0002	<0.01
	P56-ROX-041416	4/14/2016		43.73	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00014 J	<0.01	<0.01	<0.0002	0.02	0.021	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.0011	<0.01	<0.0002	<0.01
	P56-ROX-071216	7/12/2016		42.87	NE	<0.01	0.00093 J J	<0.03	<0.01	<0.0002	0.00019 J	<0.01	<0.01	<0.0002	0.011	0.011	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00053	<0.01	<0.0002	<0.01 UJ
	P56-ROX-101716	10/17/2016	40.82 - 65.82	42.35	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0069	0.0029	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00079	<0.01	<0.0002	<0.01
P-57	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	<0.0053	<0.0053	<0.021	<25	<0.00011	0.00062	<0.0053		<0.00011	0.0234	0.0314	<0.011	0.0027 J	<0.0053	<0.011	<0.0053	<0.011	0.00052	0.168 J	<0.00011	<0.011 UJ
	P57-ROX-041514	4/15/2014		46.70	NE	<0.00058 U	<0.0056	<0.022	<0.025	<0.00011	0.00061	<0.0056		<0.00011	0.0238	0.032	<0.011	<0.011	<0.0056	<0.011	<0.0056 UJ	<0.011	0.00045 J	0.106 J	<0.00011	<0.011 UJ
	P57-ROX-070814	7/8/2014		45.95	NE	0.00026 J	<0.0053	<0.021	<0.025 UJ	<0.00011 UJ	0.00055	<0.0053	0.024 JN	<0.00011	0.022	0.0306	<0.011	0.0303	<0.0053	<0.011	<0.0053	<0.011	0.00047	0.141	<0.00011	<0.011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00027 J	<0.0054	<0.022	<0.025 UJ	<0.00011 UJ	0.00054	<0.0054	0.023 JN	<0.00011	0.022	0.03	<0.011	0.0299	<0.0054	<0.011	<0.0054	<0.011	0.00048	0.136	<0.00011	<0.011
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<0.00082 U	<0.0058	<0.023	<50	<0.00012	0.00065	<0.0058		<0.00012	0.0243	0.0338	<0.012	0.0138	<0.0058	<0.012	<0.0058	<0.012	0.00058	0.271 J	<0.00012	<0.012
	P57-ROX-101414	10/14/2014		45.00	NE	<0.00086 U	<0.0056	<0.022	<50	<0.00011	0.00068	<0.0056		<0.00011	0.026	0.0345	<0.011	0.0152	<0.0056	<0.011	<0.0056	<0.011	0.00059	0.274 J	<0.00011	<0.011
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.00039 J	<0.0053	<0.021	<13	<0.00002 U	0.00098	<0.0053		<0.00011	0.0385	0.0507	<0.011	0.0044 J	<0.0053	<0.011	<0.0053	<0.011	0.00062	0.159	<0.000027 U	<0.011 UJ
	P57-ROX-042015	4/20/2015		48.73	NE	0.00037 J	<0.0052	<0.021	<1.3	<0.0001	0.00089	<0.0052		<0.0001	0.0312	0.045	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.0007	0.164	0.000021 J	<0.01
	P57-ROX-071315	7/13/2015		47.81	NE	0.00044 J	<0.0053	<0.021	<25	<0.00011	0.00082	<0.0053		<0.00011	0.0302	0.0464	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00064	0.189	0.00002 J	<0.011
	P57-ROX-101515	10/15/2015		45.56	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00045	<0.01	<0.01	<0.0002	0.018	0.026	<0.01	0.038	<0.01	<0.01	<0.01	<0.02	<0.0002	0.87	<0.0002	<0.01
	P57-ROX-011216	1/12/2016		45.61	NE	<0.01	<0.01	<0.03	<0.01	<0.001	0.00089 J	<0.01	0 0037 J	<0.001	0.038	0.057	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00071 J	0.21	<0.001	<0.01
	P57-ROX-041816	4/18/2016		44.80	NE	<0.01 UJ	<0.01 UJ	<0.03 UJ	<0.01 UJ	<0.0002 UJ	0.00044 H J	<0.01 UJ	J	<0.0002 UJ	0.019 H J	0.027 H J	<0.01 UJ	J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	0.00037 H J	0.42 H J	<0.0002 UJ	<0.01 UJ
	P57-ROX-071316	7/13/2016		44.02	NE	<0.01	<0.00069 U	<0.03	<0.01	<0.001	0.00053 J	<0.01	<0.01	<0.001	0.026	0.036	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00053 J	0.73	<0.001	<0.01 UJ
	P57-ROX-101816	10/18/2016	44.19 - 54.19	43.17	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00064	<0.01	0.0013 J	<0.0002	0.027	0.037	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00064	1.1	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-58	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	<0.0052	<0.0052	<0.021	<25	0.000058 J	0.0011	<0.0052		<0.0001	0.0353	0.0474	<0.01	0.0073 J	<0.0052	<0.01	<0.0052	<0.01	0.00069	0.123 J	0.00014	<0.01 UJ
	P58-ROX-041514	4/15/2014		45.66	NE	<0.0013 U	0.00072 J	<0.021 UJ	<0.025	0.00079	0.0017	0.00088 J		0.00072	0.0284	0.0381	<0.011 UJ	0.0136 J	<0.0053	<0.011 UJ	0.0021 J J	<0.011 UJ	0.0013	0.123 J	0.00085	<0.011 UJ
	P58-ROX-071814	7/18/2014		43.80	NE	<0.00032 U	<0.0055	<0.022 UJ	<25 UJ	0.000062 J	0.0012	<0.0055		0.0005	0.0412	0.0554	<0.011	0.012	<0.0055	<0.011	<0.0055	<0.011	0.00092	0.173	0.00022	<0.011
	P58-ROX-101514	10/15/2014		43.14	NE	<0.0054	<0.0054	<0.022	<13	0.000064 J	0.0015	<0.0054		<0.00011	0.0504	0.0674	<0.011	0.0237	<0.0054	<0.011	<0.0054	<0.011	0.001	0.145	0.00024	<0.011
	P58-ROX-012315	1/23/2015		45.32	NE	0.00038 J	<0.0053	<0.021	<25	<0.000028 U	0.0011	<0.0053		<0.00011	0.0428	0.0565	<0.011	0.0025 J	<0.0053	<0.011	<0.0053	<0.011	0.00064	0.162	0.000097 JB	<0.011 UJ
	P58-ROX-042015	4/20/2015		46.67	NE	0.00028 J	<0.0052	<0.021	<0.25	0.000048 J	0.0012	<0.0052		<0.0001	0.0444	0.0563	<0.01	0.0047 J	<0.0052	<0.01	<0.0052	<0.01	0.00075	0.112	0.00019	<0.01
	P58-ROX-071415	7/14/2015		45.54	NE	0.00081 J	<0.0055	<0.022	<25	0.000054 J	0.0011	<0.0055		<0.00011	0.04	0.055	<0.011	0.0165	<0.0055	<0.011	<0.0055	<0.011	0.00083	0.153	0.00023	<0.011
	P58-ROX-101615	10/16/2015		43.45	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00038	<0.01	<0.01	<0.0002	0.016	0.021	<0.01	0.013 J	<0.01	<0.01	<0.01	<0.02	0.00021	0.23	0.000062 J	<0.01
	P58-ROX-011316	1/13/2016		43.18	NE	<0.01	<0.01	<0.03	<0.01	0.000063 J	0.0012	<0.01	0.0025 J	<0.0002	0.062	0.083	<0.01	0 015 J	<0.01	<0.01	<0.01	<0.02	0.00087	0.068	0.00017 J	<0.01
	P58-ROX-041816	4/18/2016		42.68	NE	<0.01 UJ	<0.01 UJ	<0.03 UJ	<0.01 UJ	<0.0002 UJ	0.0012 H J	<0.01 UJ	0.002 J H J	<0.0002 UJ	0.061 H J	0.077 H J	<0.01 UJ	J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	0.001 H J	0.45 H J	0.00024 H J	<0.01 UJ
	P58-ROX-071516	7/15/2016		42.05	NE	0.004 J	<0.00098 U	<0.03	<0.01	<0.0002	0.00063	<0.01	0.0013 J	<0.0002	0.024	0.033	<0.01	<0.02	<0.01	<0.01	<0.01	0.002 J	0.00032	0.21	<0.0002	<0.01 UJ
	P58-ROX-101816	10/18/2016	40.21 - 65.21	41.05	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.00098	0.00094 J	<0.0098	0.0014 J	<0.00098	0.042	0.052	<0.0098	0.0034 J	<0.0098	<0.0098	<0.0098	<0.02	0.00087 J	0.6	0.00018 J	<0.0098
P-59	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	<0.0052	<0.0052	<0.021	<0.5	0.00012	0.00067	<0.0052		<0.0001	0.0141	0.0214	0.31 J	0.0142	<0.0052	<0.01	<0.0052	<0.01	0.0014	0.0444 J	0.00019	<0.01 UJ
	P59-ROX-041514	4/15/2014		48.60	NE	<0.0053	<0.0053	<0.021	<0.025	0.00015	0.00066	<0.0053		<0.00011	0.0233	0.0317	<0.011	0.0186 J	<0.0053	<0.011	<0.0053 UJ	<0.011	0.0016	0.13 J	0.0003	<0.011 UJ
	P59-ROX-070814	7/8/2014		47.69	NE	0.00045 J	<0.0057	<0.023	<0.025 UJ	0.000053 J J	0.00046	<0.0057		<0.00011	0.0181	0.0291	0.0793	0.0184	<0.0057	<0.011	<0.0057	<0.011	0.00088	<0.0057	0.0001 J	<0.011
	P59-ROX-101414	10/14/2014		46.18	NE	<0.00042 U	<0.0054	<0.022	<0.025	<0.00054	0.00087	<0.0054		<0.00054	0.0268	0.0425	0.0387	0.0092 J	<0.0054	<0.011	<0.0054	<0.011	0.0015	0.0361	<0.00054	<0.011
	P59-ROX-011915	1/19/2015		47.42	NE	<0.0054	<0.0054	<0.022	<2.5	0.00014	0.00073	<0.0054		<0.00011	0.0145	0.0216	0.0789	0.0145	<0.0054	<0.011	<0.0054	<0.011	0.0013	0.0169	0.00027	<0.011
	P59-ROX-041615	4/16/2015		48.83	NE	<0.0054	<0.0054	<0.022	<0.25	0.000078 J	0.00028	<0.0054	0.057 JN	<0.00011	0.0136	0.0189	0.0661	0.168	<0.0054	<0.011	<0.0054	<0.011	0.00081	0.0909	0.00014	<0.011
	P59-ROX-071315	7/13/2015		47.85	NE	<0.0054	<0.0054	<0.022	<0.63	0.0002	0.00045	<0.0054		<0.00011	0.0045	0.0049	0.044	0.0123	<0.0054	<0.011	<0.0054	<0.011	0.00064	0.0062	0.00039	<0.011
	P59-ROX-101515	10/15/2015		45.75	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.002	<0.01	0.0091 J	<0.0002	0.014	0.014	0.093	0.061	<0.01	<0.01	<0.01	<0.02	<0.0002	0.072	<0.0002	<0.01 UJ
	P59-ROX-011216	1/12/2016		46.10	NE	<0.01	0.00049 J	<0.03	<0.01	0.00017 J	0.00055 J	<0.01	0.018	<0.001	0.017	0.026	0.012	0.0068 J	<0.01	<0.01	<0.01	<0.02	0.00089 J	<0.01	0.00019 J	0.0047 J
	P59-ROX-041816	4/18/2016		44.28	NE	<0.01 UJ	<0.01 UJ	<0.03 UJ	<0.01 UJ	0.00022 J	0.00024 J	<0.01 UJ	0.011 J	J	0.011 J	0.017 J	0.0021 J J	0.0033 J J	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	0.000093 J J	0.044 J	0.00016 J J	<0.01 UJ
	P59-ROX-071316	7/13/2016		44.01	NE	<0.01	<0.00079 U	<0.03	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	0.018	0.021	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.001	<0.01	<0.001	<0.01 UJ
	P59-ROX-101816	10/18/2016	47.91 - 72.91	43.39	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	<0.0002	<0.0098	<0.0098	<0.0002	0.022	0.037	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	<0.0002	0.094	<0.0002	<0.0098
P-66	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	<0.0053	<0.0053	<0.021	<0.025	0.000065 J	0.0016	<0.0053		0.000041 J	0.0701	0.0284	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00077	<0.0053	0.000099 J	<0.011
	P66-ROX-041114	4/11/2014		37.10	NE	<0.00088 U	<0.0058	<0.023	<0.025	<0.00012	0.0013	<0.0058		<0.00012	0.0649	0.023	<0.012	<0.012	<0.0058	<0.012	<0.0058	<0.012	0.00049	<0.0058	0.000049 J	<0.012
	P66-ROX-070714	7/7/2014		35.60	NE	0.0003 J	<0.0056	<0.022	<0.025	<0.00011	0.00078	<0.0056		<0.00011	0.0445	0.006	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00041 J	<0.0056	<0.00011	<0.011
	P66-ROX-101414	10/14/2014		34.48	NE	<0.00066 U	<0.0055	<0.022	<0.025	<0.00011	0.0011	<0.0055		<0.00011	0.0595	0.0075	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	0.00064	<0.0055	0.000043 J	<0.011
	P66-ROX-011615	1/16/2015		36.62	NE	<0.00022 U	<0.0053	<0.021	<0.025	0.000047 J J	0.0014	<0.0053		<0.00011	0.0739	0.0178	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00072 J	<0.0053	0.000077 J J	<0.011
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.0054	<0.0054	<0.022	<0.025	0.001 J	0.0015	<0.0054		0.00014	0.0682	0.0165	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.0016 J	<0.0054	0.00086 J	<0.011
	P66-ROX-041415	4/14/2015		38.27	NE	<0.0054	<0.0054	<0.022	<0.025	0.00005 J	0.0013	<0.0054		<0.00011	0.0665	0.02	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.00062	<0.0054	0.000053 J	<0.011
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	<0.0053	<0.0053	<0.021	<0.025	0.000038 J	0.0013	<0.0053		<0.00011	0.0627	0.0187	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00059	<0.0053	0.000041 J	<0.011
	P66-ROX-070815	7/8/2015		37.24	NE	<0.0053	<0.0053	<0.021	<0.025 UJ	0.000027 J	0.0011	<0.0053		<0.00011	0.0546	0.0075	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00053	<0.0053	0.000028 J	<0.011
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	<0.0053	<0.0053	<0.021	<0.025 UJ	0.000024 J	0.0011	<0.0053		<0.00011	0.0574	0.0077	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00056	<0.0053	0.00004 J	<0.011
	P66-ROX-101315	10/13/2015		34.84	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.001 J	<0.0002	0.034	0.0025	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P-66-ROX-010816	1/8/2016		34.64	NE	<0.01	<0.01	<0.03	<0.01	0.000037 J	0.0012	<0.01	<0.01	0.000049 J	0.084 E J	0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00055	<0.01	0.000043 J	<0.01
	P66-ROX-041516	4/15/2016		34.33	NE	<0.01	<0.01	<0.03	<0.01	0.000042 J	0.00049	<0.01	<0.01	<0.0002	0.027	0.0099	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00035	<0.01	0.000054 J	<0.01
	P66-ROX-071116	7/11/2016		33.58	NE	<0.01	<0.01	<0.03	<0.01	<0.001	0.00091 J	<0.01	<0.01	<0.001	0.062	0.013	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00054 J	<0.01	<0.001	<0.01 UJ
	P66-ROX-101416	10/14/2016	34.72 - 59.72	32.61	NE	<0.0095 UJ	<0.0095 UJ	<0.029 UJ	<0.0095 UJ	<0.00095	0.001 *	<0.0095 UJ	J	<0.00095	0.056	0.028	<0.0095 UJ	<0.019 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.019 UJ	<0.00095	<0.0095 UJ	0.00011 J *	<0.0095 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-74	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	0.00048 J	<0.0051	<0.02	<0.025	0.000088 J	0.00028	<0.0051		<0.0001	0.0088	0.0106	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.00014 U	0.0278	0.000049 J	<0.01
	P74-ROX-041514	4/15/2014		44.74	NE	<0.0014 U	<0.0059	<0.024	<0.025	<0.00012	<0.00012	<0.0059		<0.00012	0.0017 J	0.0022 J	<0.012	<0.012	<0.0059	<0.012	<0.0059 UJ	<0.012	J	<0.0059 UJ	<0.00012	<0.012 UJ
	P74-ROX-070814	7/8/2014		43.02	NE	0.00039 J	<0.0057	<0.023	<0.025 UJ	<0.00011	0.00011	<0.0057		<0.00011	0.0034	0.003	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.000054 J	<0.0057	<0.00011	<0.011
	P74-ROX-101414	10/14/2014		41.48	NE	<0.0019 U	<0.005	<0.02	<0.025	<0.0001	<0.0001	<0.005		<0.0001	<0.002	<0.002	<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	P74-ROX-011915	1/19/2015		43.47	NE	<0.0053	<0.0053	<0.021	<0.025	0.000053 J	0.00023	<0.0053		<0.00011	0.0077	0.0107	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00015 B	0.0169	0.000038 J	<0.011
	P74-ROX-041515	4/15/2015		44.61	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	P74-ROX-071015	7/10/2015		43.28	NE	<0.0054	<0.0054	<0.022	<0.025	0.000019 J	<0.00011	<0.0054		<0.00011	0.00002 JB J	0.000029 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P74-ROX-101415	10/14/2015		41.75	NE	<0.01	0.00089 J	<0.03	<0.01	<0.0002	0.00012 J	<0.01	0.0022 J	<0.0002	0.0032	0.0031	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.1	0.000037 J	<0.01 UJ
	P74-ROX-011116	1/11/2016		40.67	NE	<0.01	0.00063 J B	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P74-ROX-041516	4/15/2016		40.40	NE	<0.01	<0.01	<0.03	<0.01	0.000022 J	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.00002 J	<0.01
	P74-ROX-071216	7/12/2016		39.56	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0011	0.0011	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P74-ROX-101416	10/14/2016	44.43 - 69.43	39.44	NE	<0.0095 UJ	J	<0.029 UJ	<0.0095 UJ	<0.00019	0.000086 J *	<0.0095 UJ	<0.0095 UJ	<0.00019	0.0017	0.0018	<0.0095 UJ	<0.019 UJ	<0.0095 UJ	<0.0095 UJ	<0.0095 UJ	<0.019 UJ	J	<0.0095 UJ	<0.00019	<0.0095 UJ
P-93A	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<0.0054	<0.0054	<0.022	<13	<0.00011	0.00032	<0.0054		<0.00011	0.0133	0.0072	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.00022 B	0.105	<0.00011	<0.011
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.0012 U	<0.0056	<0.022	<13	<0.00011	0.00027	<0.0056		<0.00011	0.0086	0.0048	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00018 B J	0.0735	<0.00011	<0.011
	P93A-ROX-071814	7/18/2014		45.70	NE	<0.00077 U	<0.0057	<0.023 UJ	<13 UJ	<0.00011	0.00024	<0.0057		<0.00011	0.0084	0.0053	<0.011	<0.011	0.0059	<0.011	<0.0057	<0.011	0.00017 B	0.0355	<0.00011	<0.011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<0.00041 U	<0.0057	<0.023 UJ	<13 UJ	<0.00011	0.00025	<0.0057		<0.00011	0.0095	0.0062	<0.011	<0.011	0.0052 J	<0.011	<0.0057	<0.011	0.00017 B	0.0396	<0.00011	<0.011
	P93A-ROX-101514	10/15/2014		45.06	NE	0.00024 J	<0.0052	<0.021	<13	<0.0001	0.00037	<0.0052		<0.0001	0.0114	0.0095	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.0003	0.0471	<0.0001	<0.01
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.00046 J J	<0.0054 UJ	<0.022 UJ	<13	<0.00011 UJ	0.00039 J	<0.0054 UJ		UJ	0.0122 J	0.0101 J	<0.011 UJ	<0.011 UJ	0.0011 J J	<0.011 UJ	<0.0054 UJ	<0.011 UJ	0.0003 J	0.05 J	<0.00011 UJ	<0.011 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.005	<0.005	<0.025	<0.2 UJ	<0.001	<0.001	<0.005		<0.0002	0.008	0.0038	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.00026 J	0.09	<0.001	<0.01
	P93A-ROX-041715	4/17/2015		47.02	NE	<0.0053	<0.0053	<0.021	<0.025	0.000017 J	0.00021	<0.0053		<0.00011	0.0061	0.0028	<0.011	0.00063 J	<0.0053	<0.011	<0.0053	<0.011	0.00018	0.0251	0.000026 J	<0.011
	P93A-ROX-071315	7/13/2015		45.93	NE	0.00064 J	<0.0052	<0.021	<2.5	0.000025 J	0.00022	<0.0052		<0.0001	0.0056	0.0032	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00018	0.128	0.000032 J	<0.01
	P93A-ROX-101515	10/15/2015		43.69	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00012 J	<0.01	<0.01	<0.0002	0.0041	0.0016	<0.01	0.0021 J	<0.01	<0.01	<0.01	<0.02	0.000086 J	0.078	<0.0002	<0.01
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00013 J	<0.01	<0.01	<0.0002	0.004	0.0016	<0.01	0.0023 J	<0.01	<0.01	<0.01	<0.02	0.000092 J	0.082	<0.0002	<0.01
	P-93A-ROX-011216	1/12/2016		43.73	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0047 J	0.0018 J	<0.01	0.002 J	<0.01	<0.01	<0.01	<0.02	0.00011 J	0.24	<0.0002	<0.01
	P-93A-ROX-011216-DUP	1/12/2016		43.73	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00018 J	<0.01	<0.01	<0.0002	0.0064 J	0.0031 J	<0.01	0.003 J	<0.01	<0.01	<0.01	<0.02	0.00013 J	0.19	<0.0002	<0.01
	P93A-ROX-041916	4/19/2016		43.08	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00051	0.00016 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000039 J	0.0061 J	<0.0002	<0.01
	P93A-ROX-041916-DUP	4/19/2016		43.08	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00062	0.00025	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0056 J	<0.0002	<0.01
	P93A-ROX-071316	7/13/2016		42.20	NE	<0.01	<0.0012 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00022	0.0001 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0051 J	<0.0002	<0.01 UJ
	P93A-ROX-071316-DUP	7/13/2016		42.20	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	0.00007 J	<0.01	<0.01	<0.0002	0.00025	0.00012 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0078 J	<0.0002	<0.01 UJ
	P93A-ROX-101816	10/18/2016	43.07 - 53.07	41.35	NE	<0.01	0.00093 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00014 J	0.000068 J	<0.01	<0.02	<0.01	0.00067 J	<0.01	<0.02	<0.0002	0.042	<0.0002	<0.01
	P93A-ROX-101816-DUP	10/18/2016		41.35	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.00018 J	0.000093 J	<0.01	<0.02	<0.01	0.0017 J	<0.01	<0.02	<0.0002	0.051	<0.0002	<0.01
P-93B	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	0.00045 J	<0.0055	<0.022	<25	<0.00011	<0.00011	<0.0055		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.011	<0.0055	<0.011	<0.000022 U	0.074	<0.00011	<0.011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	0.00048 J	<0.0051	<0.02	<25	<0.0001	<0.0001	<0.0051		<0.0001	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000024 U	0.0927	<0.0001	<0.01
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0024 U	<0.0051	<0.02	<13	<0.0001	<0.0001	<0.0051		<0.0001	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	0.0719	<0.0001	<0.01
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00098 U	<0.0053	<0.021	<13	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.0861	<0.00011	<0.011
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.00046 U	<0.0052	<0.021	<0.025 UJ	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000023 U	<0.0052 UJ	<0.0001	<0.01
	P93B-ROX-101514	10/15/2014		45.15	NE	0.00024 J	<0.0056	<0.022	<13	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	0.128	<0.00011	<0.011
	P93B-ROX-012315	1/23/2015		47.24	NE	0.00025 J	<0.0053	<0.021	<25	<0.00011	<0.000017 U	<0.0053		<0.00011	0.00002 J	<0.0021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.0979	<0.00011	<0.011 UJ
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	0.00031 J	<0.0053	<0.021	<25	<0.00011	<0.00011	<0.0053		<0.00011	0.000023 J	0.000041 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000024 U	0.123	<0.00011	<0.011 UJ
	P93B-ROX-021915	2/19/2015		47.24	NE				<100																	
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.000034 JB J	0.00008 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.104 J	<0.00011	<0.011
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0.0053	<0.0053	<0.021	<25	<0.00011	0.00002 J	<0.0053		<0.00011	0.000028 JB J	0.000048 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.08 J	<0.00011	<0.011
	P93B-ROX-070915	7/9/2015		47.74	NE	<0.0051	<0.0051	<0.02	<130 UJ	0.000035 J	0.000031 J	<0.0051		<0.0001	0.000041 J	0.000059 J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.000054 J	0.101	0.000025 J	<0.01
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<0.0051	<0.0051	<0.02	<50 UJ	0.000029 J	0.000095 J	<0.0051		<0.0001	0.000058 J	0.000077 J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.00031 J	0.0909	<0.0001	<0.01
	P93B-ROX-101515	10/15/2015		45.18	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.18	<0.0002	<0.01 UJ
	P93B-ROX-011316	1/13/2016		44.96	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.071	<0.0002	<0.01
	P93B-ROX-041916	4/19/2016		44.54	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.21	<0.0002	<0.01
	P93B-ROX-071516	7/15/2016		43.65	NE	<0.01	<0.0011 U	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.41	<0.0002	<0.01 UJ
	P93B-ROX-101816	10/18/2016	74.60 - 76.60	42.73	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.085	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93C	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	0.00051 J	<0.0051	<0.02	<0.025	<0.0001	<0.0001	<0.0051		<0.0001	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.00048 U	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.00035 U	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000024 U	<0.0087 UJ	<0.0001	<0.01
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.0056	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.0054	<0.0054	<0.022	<2.5	<0.00011	<0.00011	<0.0054		<0.00011	<0.000033 U	<0.000042 U	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000033 U	0.0309	<0.00011	<0.011
	P93C-ROX-021915	2/19/2015		48.22	NE				<200																	
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.0054	<0.0054	<0.022	<2.5	<0.00011	<0.00011	<0.0054		<0.00011	0.00006 JB J	0.000084 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000024 J	0.0215	<0.00011	<0.011
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.000095 JB J	0.00016 JB J	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P93C-ROX-101415	10/14/2015		44.91	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0001 J	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P-93C-ROX-010816	1/8/2016		44.68	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P93C-ROX-041816	4/18/2016		44.06	NE	<0.01 UJ	<0.01 UJ	<0.03 UJ	<0.01 UJ	0.000023 J J	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.0002 UJ	0.000089 J J	0.00013 J J	<0.01 UJ	<0.02 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.02 UJ	<0.0002 UJ	<0.01 UJ	<0.0002 UJ	<0.01 UJ
	P93C-ROX-071216	7/12/2016		43.37	NE	<0.01	0.00053 J J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	0.000044 J	0.000055 J	0.000053 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P93C-ROX-101816	10/18/2016	92.47 - 97.47	42.49	NE	<0.0095	0.00046 J	<0.029	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.00019	0.000048 J	0.000063 J	<0.0095	<0.019	<0.0095	<0.0095	<0.0095	<0.019	<0.00019	<0.0095	<0.00019	<0.0095
P-93D	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000024 U	<0.0053	<0.00011	<0.011
	P93D-ROX-041414	4/14/2014		47.54	NE	0.00036 J	<0.0053	<0.021	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.00003 U	<0.0053	<0.00011	<0.011
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.00025 U	<0.0052	<0.021	<0.025	<0.0001	<0.0001	<0.0052		<0.0001	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	<0.000022 U	<0.0052 UJ	<0.0001	<0.01
	P93D-ROX-101514	10/15/2014		45.14	NE	0.00031 J	<0.0054	<0.022	<0.25	<0.00011	<0.00011	<0.0054		<0.00011	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.000019 J	0.0458	<0.00011	<0.011
	P93D-ROX-110414	11/4/2014		45.14	NE				<0.025																	
	P93D-ROX-012315	1/23/2015		42.28	NE	<0.0053	<0.0053	<0.021	<6.3	<0.00011	<0.00011	<0.0053		<0.00011	<0.0021	0.000019 J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.000053	0.044	<0.00011	<0.011 UJ
	P93D-ROX-021915	2/19/2015		42.28	NE				<500																	
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.0052	<0.0052	<0.021	<2.5	0.000024 J	0.00002 J	<0.0052		<0.0001	0.00012 J	0.00016 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.000017 J	0.0395	0.000021 J	<0.01
	P93D-ROX-070915	7/9/2015		47.96	NE	<0.0051	<0.0051	<0.02	<13 UJ	0.000025 J	0.000019 J	<0.0051		<0.0001	0.000026 J	0.000038 J	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.000043 J	0.0278	0.000026 J	<0.01
	P93D-ROX-101515	10/15/2015		45.28	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000021 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.071	<0.0002	<0.01
	P93D-ROX-011316	1/13/2016		45.10	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.063	<0.0002	<0.01
	P93D-ROX-041916	4/19/2016		44.61	NE	<0.01	0.00057 J	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000032 J	0.000036 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.047	<0.0002	<0.01
	P93D-ROX-071516	7/15/2016		43.83	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
	P93D-ROX-101716	10/17/2016	125.75 - 127.75	42.78	NE	<0.0095	<0.0095 UJ	<0.029	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.00019	<0.00019	<0.00019	<0.0095	<0.019	<0.0095	<0.0095	<0.0095	<0.019	<0.00019	<0.0095	<0.00019	<0.0095
P-114	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.0054	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.00015 B	<0.0054	<0.00011	<0.011
	P114-ROX-042114	4/21/2014		32.22	NE	0.0026 JB	<0.0051	<0.02 UJ	<0.025	<0.0001	<0.0001	<0.0051		<0.0001	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01 UJ	<0.000051	<0.0051	<0.0001	<0.01
	P114-ROX-071814	7/18/2014		30.87	NE	<0.00028 U	<0.0051	<0.02 UJ	<0.025 UJ	<0.0001	<0.0001	<0.0051		<0.0001	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.01	<0.0051	<0.01	<0.00012 U	<0.0051	<0.0001	<0.01
	P114-ROX-101714	10/17/2014		29.43	NE	<0.0057	<0.0057	<0.023	<0.025	<0.00011	<0.00011	<0.0057		<0.00011	<0.0023	<0.0023	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011 UJ
	P114-ROX-012115	1/21/2015		31.53	NE	0.00091 J	<0.0056	<0.022	<0.025	<0.00002 U	0.000048 J	<0.0056		<0.00011	<0.000092 U	<0.00012 U	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	<0.000046 U	<0.0056	<0.000042 U	<0.011 UJ
	P114-ROX-041715	4/17/2015		NM	NE	0.00031 J	<0.0053	<0.021	<0.025	0.000023 J	<0.00011	<0.0053		<0.00011	0.000025 JB J	0.000029 JB J	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.000039 J	<0.0053	0.000027 J	<0.011
	P114-ROX-070815	7/8/2015		29.16	NE	<0.005	<0.005	<0.02	<0.025 UJ	<0.0001	0.000033 J	<0.005		<0.0001	<0.002	<0.002	<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	0.000023 J	<0.005	0.000032 J	<0.01
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	28.15	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P114R-ROX-010716	1/7/2016				<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.000081 J	0.000095 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P114R-ROX-040816	4/8/2016				<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	P114R-ROX-070816	7/8/2016				<0.05	<0.05	<0.15	<0.05	<0.0002	<0.0002	<0.05	<0.05	<0.0002	<0.0002	<0.0002	<0.05	<0.1	<0.05	<0.05	<0.05	<0.1	<0.0002	<0.05	<0.0002	<0.05 UJ
	P114R-ROX-100716	10/7/2016	23.01 - 33.01	23.89	NE	<0.0095	<0.0095	<0.029	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.00019	<0.00019	<0.00019	<0.0095	<0.019	<0.0095	<0.0095	<0.0095	<0.019	<0.00019	<0.0095	<0.00019	<0.0095

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,4-Dinitrophenol	1,4-Dioxane	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	N-Nitrosodimethylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.0000017 [3]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
ROST-3-MW	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.0053	<0.0053	<0.021 UJ	<0.025	<0.00011	<0.00011	<0.0053		<0.00011	0.0011	0.00099	<0.011 UJ	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053	<0.011 UJ	0.0002	<0.0053 UJ	<0.00011	<0.011
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00076 U	<0.006	<0.024	<0.025	<0.00012	<0.00012	<0.006		<0.00012	0.00075	0.0008	<0.012	<0.012	<0.006	<0.012	<0.006	<0.012	0.0001	<0.006	<0.00012	<0.012
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.0004 U	<0.0054	<0.022	<0.025	<0.00011	<0.00011	<0.0054		<0.00011	0.00092	0.00097	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	<0.00016 U	<0.0054	<0.00011	<0.011
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.00026 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.00075 J	0.00057 J	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.00014 B	<0.0056	<0.00011	<0.011
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	0.00045 J J	<0.0057	<0.023	<0.025	0.000022 J J	0.000035 J J	<0.0057		<0.00011	0.001 J	0.00024 J	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.0001 J	<0.0057	0.000033 J J	<0.011
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	0.00003 J	<0.0052		<0.0001	0.001 J	0.0005 J	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00011	<0.0052	0.000019 J	<0.01
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	<0.0053	<0.0053	<0.021	<0.025	<0.00011	0.000048 J	<0.0053		<0.00011	0.0014 J	0.00084 JB	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	0.00011 B	<0.0053	0.000018 J	<0.011
	ROST3MW-ROX-101215	10/12/2015		40.29	NE	<0.01	0.0028 J	<0.03	<0.01	0.000056 J	0.000086 J	<0.01	<0.01	0.000092 J	0.0025	0.0023	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00018 J	<0.01	0.000056 J	<0.01
	ROST3MW-ROX-011416	1/14/2016		40.30	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.0017	0.0014	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000096 J	<0.01	<0.0002	<0.01
	ROST3MW-ROX-041216	4/12/2016		39.69	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.002	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.000081 J	<0.01	<0.0002	<0.01
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	<0.01	<0.00097 U	<0.03	<0.01	<0.0002	0.000043 J	<0.01	<0.01	<0.0002	0.0013	0.00077	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00011 J	<0.01	<0.0002	<0.01
	ROST3MW-ROX-101316	10/13/2016	37.81 - 47.81	38.19	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	0.00011 J	<0.0098	<0.0098	<0.0002	0.0033	0.0034	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	0.00019 J	<0.0098	<0.0002	<0.0098
ROST-4-PZ(C)	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.0059	<0.0059	<0.02 UJ	<0.025	<0.00012	<0.00012	<0.0059		<0.00012	0.00019 J	<0.00024	<0.01 UJ	<0.01 UJ	<0.0059	<0.01 UJ	<0.0059	<0.01 UJ	0.000077	<0.005 UJ	<0.00012	<0.012
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00038 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	0.000065 J	<0.00022	<0.011	<0.011	<0.0056	<0.011	<0.0056	<0.011	0.000051 J	<0.0056	<0.00011	<0.011 UJ
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.00031 U	<0.0053	<0.021	<0.025	<0.0001	<0.0001	<0.0053		<0.0001	0.00021	<0.0002	<0.011	<0.011	<0.0053	<0.011	<0.0053	<0.011	<0.00012 U	<0.0053	<0.0001	<0.011 UJ
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.00032 U	<0.0056	<0.022	<0.025	<0.00011	<0.00011	<0.0056		<0.00011	<0.0022	<0.0022	<0.011	0.00071 J	<0.0056	<0.011	<0.0056	<0.011	<0.000088 U	0.00088 J	<0.00011	<0.011
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	0.0003 J J	<0.0057	<0.023	<0.025	<0.00011	<0.00011	<0.0057		<0.00011	0.000038 J	0.000018 J J	<0.011	<0.011	<0.0057	<0.011	<0.0057	<0.011	0.00004 J J	<0.0057	0.000022 J J	<0.011
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.0051	<0.0051	<0.02	<0.025	<0.0001	<0.0001	<0.0051		<0.0001	0.0012 J	0.00038 JB	<0.01	0.0011 J	<0.0051	<0.01	<0.0051	<0.01	0.000075	<0.0051	0.000022 J	<0.01
	ROST4PZ-ROX-071315	7/13/2015		42.59	NE	<0.0052	<0.0052	<0.021	<0.025	<0.0001	0.00005 J	<0.0052		<0.0001	0.0095	0.0077	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.01	0.00011 B	<0.0052	0.000025 J	<0.01
	ROST4PZC-ROX-101215	10/12/2015		40.35	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	0.0012 J	<0.0002	0.013	0.011	<0.01	0.0051 J	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	ROST4PZC-ROX-011516	1/15/2016		40.54	NE	<0.01	<0.01	<0.03	<0.01	<0.002	<0.002	<0.01	<0.01	<0.002	0.02	0.02	<0.01	0.001 J	<0.01	<0.01	<0.01	<0.02	<0.002	<0.01	<0.002	<0.01
	ROST4PZC-ROX-041316	4/13/2016		39.61	NE	<0.01	<0.01	<0.03	<0.01	0.000026 J	0.00026	<0.01	<0.01	<0.0002	0.02	0.016	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00021	<0.01	0.000028 J	<0.01
	ROST4PZC-ROX-071516	7/15/2016		38.93	NE	<0.01	<0.00081 U	<0.03	<0.01	<0.0002	0.00019 J	<0.01	<0.01	<0.0002	0.0035	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00013 J	<0.01	<0.0002	<0.01 UJ
	ROST4PZC-ROX-101316	10/13/2016	34.95 - 44.95	38.45	NE	<0.0096	<0.0096	<0.029	<0.0096	<0.00019	0.00059	<0.0096	<0.0096	<0.00019	0.057	0.063	<0.0096	<0.019	<0.0096	<0.0096	<0.0096	<0.019	0.00098	<0.0096	0.000023 J	<0.0096
T-12	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	0.00044 J	<0.0051	<0.02	<0.025	<0.0001	0.00035	<0.0051		<0.0001	0.0215	0.0326	0.0022 J	<0.01	<0.0051	<0.01	<0.0051	<0.01	0.001	0.0498	0.00006 J	<0.01
	T12-ROX-041514	4/15/2014		46.72	NE	<0.00034 U	<0.0056	<0.022	<0.025	<0.00011	0.0003	<0.0056		<0.00011	0.0189	0.0283	<0.011	<0.011	<0.0056	<0.011	<0.0056 UJ	<0.011	0.00078	0.0672 J	0.00005 J	<0.011 UJ
	T12-ROX-070814	7/8/2014		45.13	NE	0.00038 J	<0.0054	<0.022	<0.025 UJ	<0.00011	0.00022	<0.0054		<0.00011	0.015	0.0245	0.0092 J	0.0033 J	<0.0054	<0.011	<0.0054	<0.011	0.00051	<0.0054	<0.00011	<0.011
	T12-ROX-101714	10/17/2014		44.40	NE	0.00061 J	<0.0056	<0.022	<0.25	<0.00011	0.00031	<0.0056		<0.00011	0.022	0.0369	0.003 J	0.0059 J	<0.0056	<0.011	<0.0056	<0.011	0.00079	0.0154	<0.00011	<0.011 UJ
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	<0.0053	<0.0053	<0.021	<0.25	<0.00011	0.00032	<0.0053	0.0069 JN	<0.00011	0.021	0.0332	0.0055 J	0.0016 J	<0.0053	<0.011	<0.0053	<0.011	0.00082	0.0155	0.000055 J	<0.011
	T12-ROX-041515	4/15/2015		46.73	NE	0.00033 J	<0.0056	<0.022	<0.025	0.000024 J	0.00032	<0.0056		<0.00011	0.021	0.0335 J	0.0021 J	0.0042 J	<0.0056	<0.011	<0.0056	<0.011	0.00086	0.0099	0.000052 J J	<0.011
	T12-ROX-071015	7/10/2015		46.09	NE	<0.0054	<0.0054	<0.022	<0.25	0.000027 J	0.00029	<0.0054		<0.00011	0.0178	0.0301	<0.011	<0.011	<0.0054	<0.011	<0.0054	<0.011	0.00083	0.0221	0.000053 J	<0.011
	T12-ROX-101515	10/15/2015		43.72	NE	<0.01	<0.01	<0.03	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	0.017	0.024	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.0005	0.054	0.000038 J	<0.01 UJ
	T12-ROX-011216	1/12/2016		44.13	NE	<0.01	<0.01	<0.03	<0.01	<0.0004	0.00033 J	<0.01	<0.01	<0.0004	0.021	0.031	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00088	0.064	<0.0004	<0.01
	T12-ROX-041516	4/15/2016		42.07	NE	<0.01	<0.01	<0.03	<0.01	0.000027 J	0.0003	<0.01	<0.01	<0.0002	0.017	0.024	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	0.00049	0.098	0.000034 J	<0.01
	T12-ROX-071216	7/12/2016		41.50	NE	<0.01	0.00076 J J	<0.03	<0.01	<0.0002	0.00022	<0.01	<0.01	<0.0002	0.0072	0.002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.02	<0.0002	0.038	0.000048 J	<0.01 UJ
	T12-ROX-101716	10/17/2016	46.83 - 72.83	41.19	NE	<0.0098	<0.0098	<0.029	<0.0098	<0.0002	0.00028	<0.0098	<0.0098	<0.0002	0.017	0.021	<0.0098	<0.02	<0.0098	<0.0098	<0.0098	<0.02	0.0006	0.073	<0.0002	<0.0098

Notes:

1 Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

4 Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historical results were reported by PAH analysis.

5 Beginning in 4Q13, professional judgment criteria used to review common laboratory contaminants was reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

6 The laboratory has been requested to perform a library search in all samples for butane, hexane, isopentane, 1,2,3-trimethylbenzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

7 Beginning in 4Q15, 1,4-Dioxane was analyzed via 8270 SVOC. Prior historical results were reported by VOC analysis.

Indicates a historical exceedance of screening criteria.

Indicates a current exceedance of screening criteria.

Empty cell without a value indicates previous quarter analyte result was rejected, the analyte was not analyzed, or the TIC was not identified.

LABORATORY QUALIFIERS

B = Target analyte or common lab contaminant was identified in the method blank indicating poss ble field or lab contamination.

J = The analyte was detected below the reporting limit. Result is estimated.

E = The value exceeds calibration range.

JN = Estimated value for tentatively identified compound (library search).

<#.## Indicates the analyte was not detected above the given reporting limit.

AECOM QUALIFIERS

J = The result is estimated.

UJ = Estimated non-detect.

U = Result is non-detect.

Figures

The following EVS Descriptions and Assumptions apply to **Figure 6**. C Tech Development Corporation's Environmental Visualization System PRO, Version 9.89 (EVS-PRO) was used to model the estimated distribution of benzene in the groundwater.

EVS Descriptions and Assumptions:

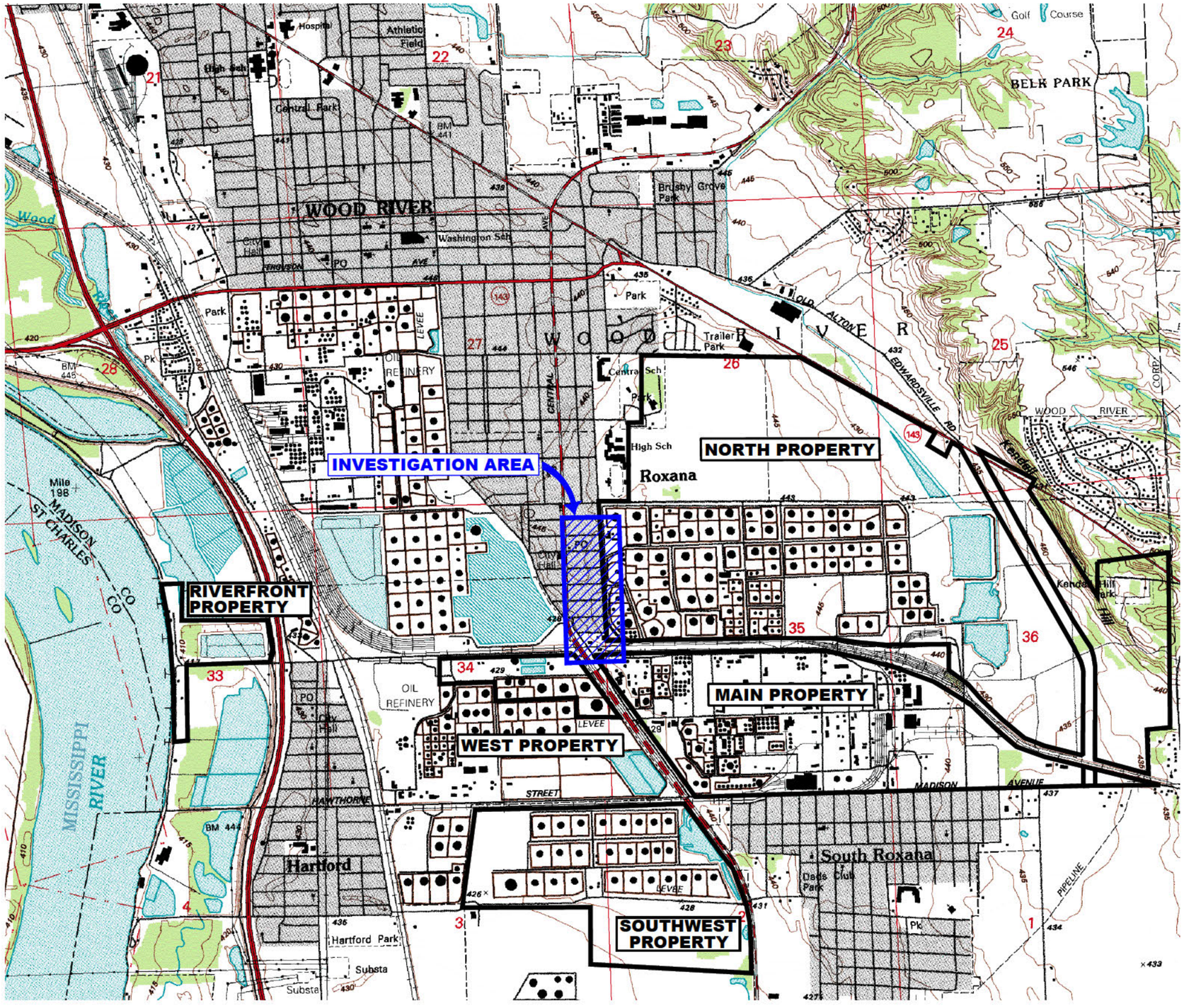
Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in two dimensions (2D). Regardless of sample depth, benzene concentrations were modeled on a flat horizontal plane.

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.

More simplified, if each sampling location were represented by a tack pushed into the model's surface and a rubber band stretched around them, the model would be represented by the space inside the rubber band.

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 reporting limit was used in the model. This conservative method is based on the assumption that the sample is likely not free of benzene but the quantity contained is lower than detectable at the analyzed dilution.



SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60477387
AECOM	
DRN. BY: djd January 2017 DSGN. BY: djd CHKD. BY: bj	4Q16 Investigation Area Location Map
	FIG. NO. 1

File: P:\PROJECTS\ENVIRONMENTAL\Shell\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 01/04/17 @ 2:47 p.m. @ WCS-ST.LOUIS

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 2 GROUNDWATER MONITORING WELL SAMPLING LOCATIONS.DWG Last edited: JAN. 04, 17 @ 2:56 p.m. by: david.deguire

LEGEND

- GROUNDWATER MONITORING WELL LOCATION SAMPLED
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED

FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
CHAFFER AVE
HIGHWAY 111 (S. CENTRAL AVE)
RAND AVENUE
2ND STREET
NORTH PROPERTY
MAIN PROPERTY
WEST PROPERTY
VILLAGE OF ROXANA
BP
1986 APPROXIMATE BENZENE RELEASE SITE

PZ-1(101)
PZ-1(85)
MW-9
MW-10
MW-28
MW-27
P-55R
ROST-4-PZ(A)
ROST-4-PZ(B)
ROST-4-PZ(C)
ROST-4-PZ
P-60-11
ROST-3-MW
ROST-4-PZ(D)
ROST-4-PZ(E)
P-60-S
P-60-12
ROST-4-PZ(F)
P-60
ROST-4-PZ(G)
MW-11
P-54
P-68
P-60-13
MW-17
T-12
MW-24
MW-22
P-69
MW-18
P-70
P-74
MW-19
P-59
P-61
GP-9-PZ
PZ-2(84)
PZ-2(70.5)
MW-12
MW-20
P-56
MW-2
MW-1
T-6
MW-26
MW-21
P-57
MW-4
MW-3
P-93A
P-93B
P-93C
P-93D
P-73
MW-25
MW-23
MW-5
MW-7
MW-8
P-58
MW-13
MW-6A
MW-6B
MW-6C
MW-6D
P-66
P-75
MW-14
P-114R
T-1
T-24
A-28
A-27

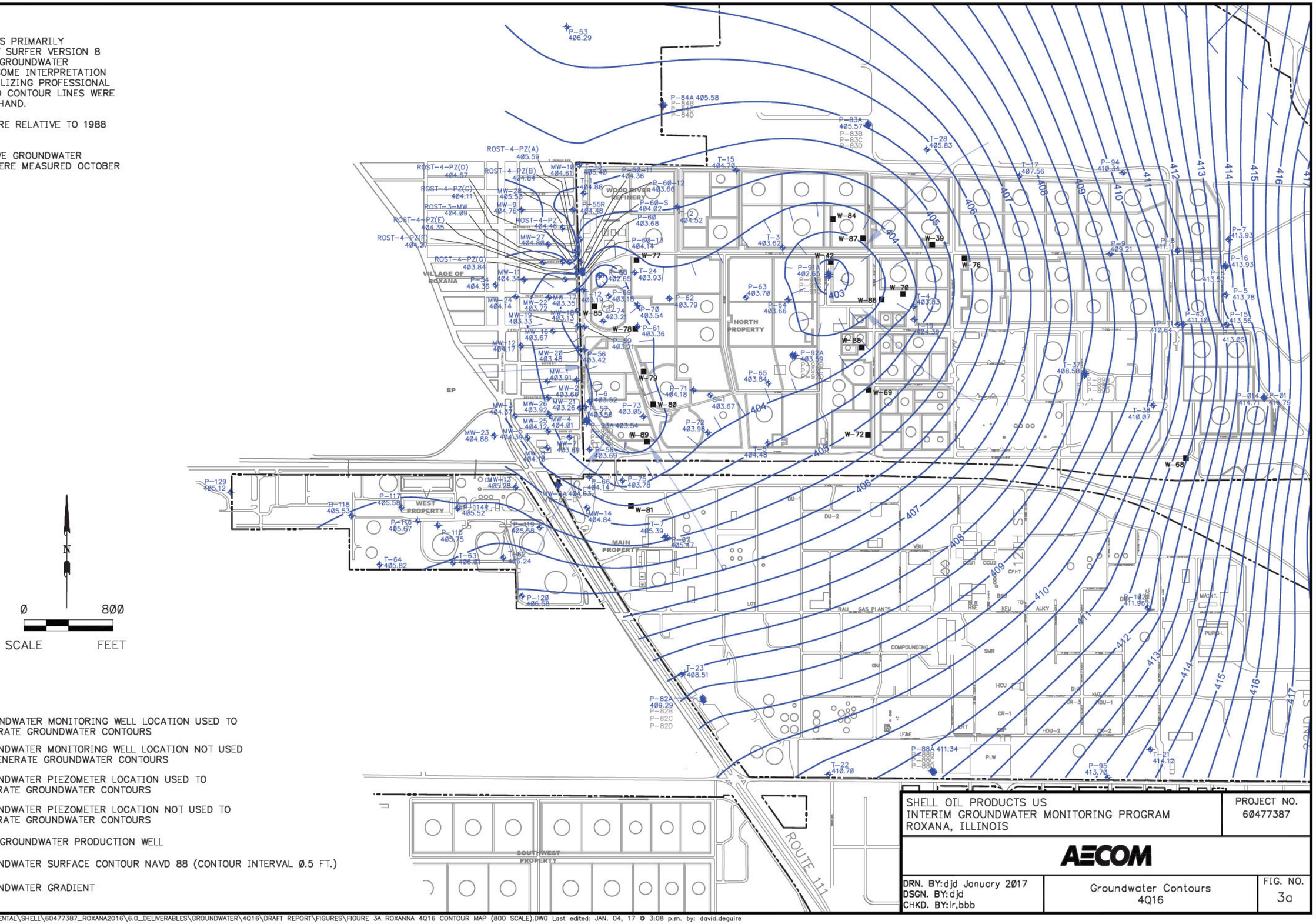
0 200
SCALE FEET
N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60477387
AECOM		
DRN. BY:djd January 2017 DSGN. BY:lr CHKD. BY:b3	4Q16 Groundwater Monitoring Well 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 NGS DATUM.

3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 3-5, 2016.



SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60477387

AECOM

DRN. BY:djd January 2017
DSGN. BY:djd
CHKD. BY:lr,bbb

Groundwater Contours 4Q16

FIG. NO. 3a

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 3A ROXANNA 4Q16 CONTOUR MAP (800 SCALE).DWG Last edited: JAN. 04, 17 @ 3:08 p.m. by: david.deguire

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 3B ROXANNA 4Q16 CONTOUR MAP.DWG Last edited: JAN. 04, 17 @ 3:14 p.m. by: david.deguire

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 PRODUCTION WELL
- —402— GROUNDWATER SURFACE CONTOUR NAVD 88 (CONTOUR INTERVAL 0.5 FT)
- GROUNDWATER GRADIENT

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 NGS DATUM.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 3–5, 2016.

FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER AVE
2ND STREET
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
WEST PROPERTY
MAIN PROPERTY
PUBLIC WORKS YARD
BP
1986 APPROXIMATE BENZENE RELEASE SITE

T-1 404.88
PZ-1(101) PZ-1(85)
MW-10 404.61
MW-9 404.76
405
MW-28 405.53
ROST-4-PZ(A) 405.59
P-55R 404.48
MW-27 404.80
ROST-4-PZ 404.46
ROST-4-PZ(B) 404.84
P-60-11 404.36
404
ROST-4-PZ(C) 404.11
ROST-4-PZ(D) 404.57
P-60 403.68
W-77
ROST-3-MW 404.09
ROST-4-PZ(E) 404.35
P-60-S 404.02
P-60-12 403.66
MW-11 404.34
ROST-4-PZ(F) 404.27
P-60-13 404.14
T-24 403.93
P-54 404.36
ROST-4-PZ(G) 403.84
P-68 402.65
MW-17 403.35
T-12 403.19
403
MW-22 403.72
P-69 403.18
MW-24 404.14
W-85
A-27
P-70 403.54
MW-18 403.13
P-74 403.21
VILLAGE OF ROXANA
MW-19 403.33
P-61 403.36
W-78
P-59 403.21
FIFTH ST
MW-16 403.67
GP-9-PZ
PZ-2(84) PZ-2(70.5)
P-56 403.42
MW-12 404.17
MW-20 403.48
W-79
MW-1 403.91
MW-2 403.66
T-6 403.52
SEVENTH ST
MW-26 403.92
MW-21 403.26
P-57 403.56
P-73 403.05
MW-4 404.01
MW-3 404.37
P-93A 403.54
P-93B
P-93C
P-93D
404
MW-25 404.12
EIGHTH ST
MW-7 403.89
W-89
MW-23 404.88
MW-5 404.39
P-58 403.69
MW-8 404.10
P-75 403.78
W-81
MW-13 405.28
404.63 MW-6A
MW-6B
MW-6C
MW-6D
P-66 404.14
MW-14 404.84
P-114R 405.52

0 200 SCALE FEET N

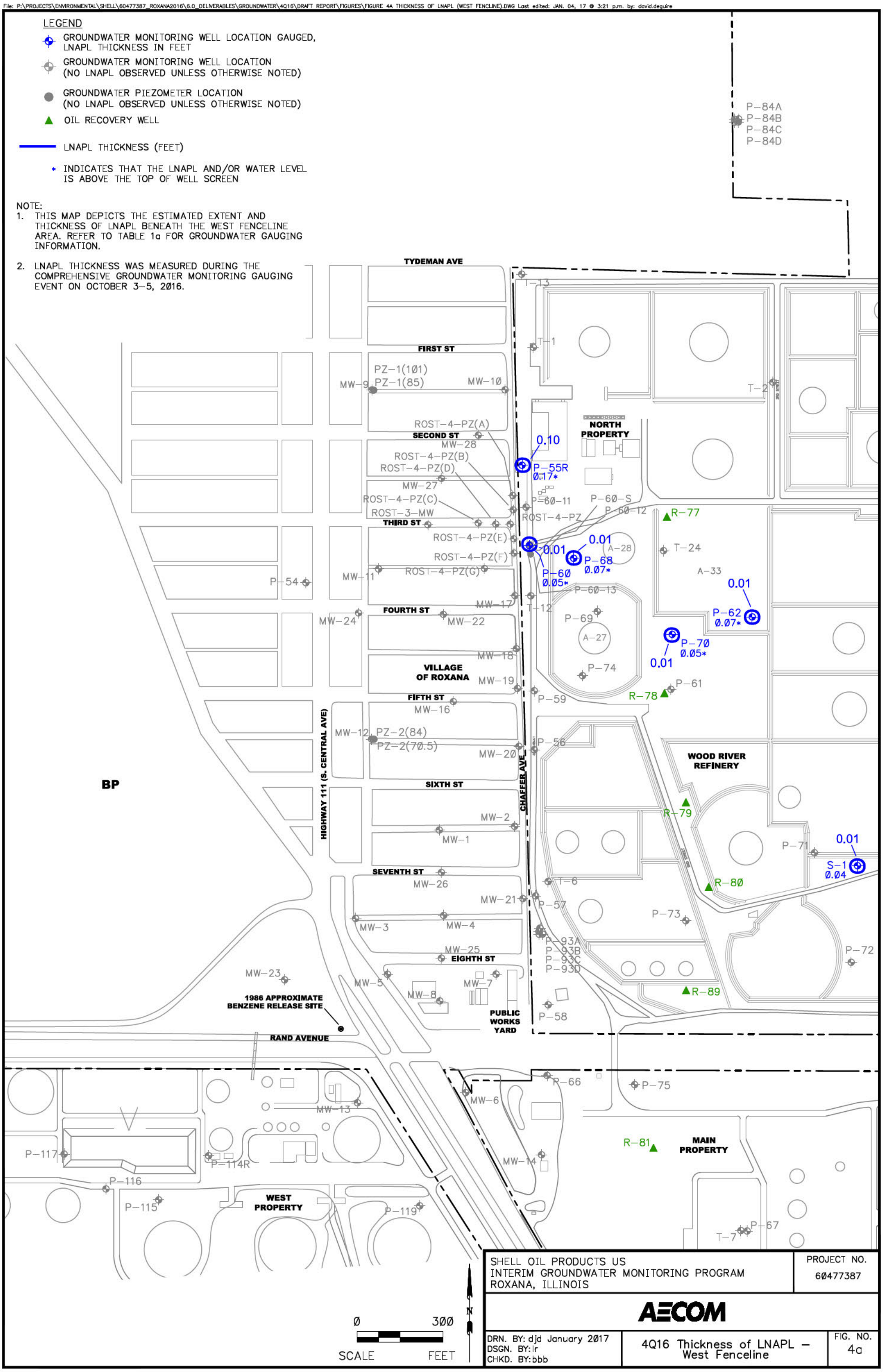
SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60477387
AECOM	
DRN. BY:djd January 2017 DSGN. BY:lr CHKD. BY:bbb	Groundwater Contours 4Q16– West Fenceline
	FIG. NO. 3b

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 4A THICKNESS OF LNAPL (WEST FENCLINE).DWG Last edited: JAN. 04, 17 @ 3:21 p.m. by: david.deguire

LEGEND

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

NOTE:
1. THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WEST FENCELINE AREA. REFER TO TABLE 1a FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 3–5, 2016.



SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60477387
AECOM		
DRN. BY: djd January 2017 DSGN. BY: lr CHKD. BY: bbb	4Q16 Thickness of LNAPL – West Fenceline	FIG. NO. 4a

LEGEND

- GROUNDWATER MONITORING WELL LOCATION GAUGED, LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- LNAPL THICKNESS (FEET)

* INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

NOTES:
1. THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WRR AREA. REFER TO TABLE 1a FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING A COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 3–5, 2016.

NORTH PROPERTY

VILLAGE OF ROXANA

WEST PROPERTY

MAIN PROPERTY

SOUTHWEST PROPERTY

ILLINOIS TERMINAL RAILROAD

12TH ST.

22ND ST.

M ST.

SCALE 0 800 FEET

N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60477387
AECOM		
DRN. BY: djd January 2017 DSGN. BY: lr CHKD. BY: bbb	4Q16 Thickness of LNAPL	FIG. NO. 4b

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER 4Q16\DRAFT REPORT\FIGURES\FIGURE 4B THICKNESS OF LNAPL (REFINERY).DWG Last edited: JAN. 04, 17 @ 3:27 p.m. by: david.deaine

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT_REPORT\FIGURES\FIGURE 5_4Q16_GROUNDWATER_ANALYTICAL_RESULTS_SUMMARY.DWG Last edited: JAN. 04, 17 @ 3:38 p.m. by: david.deguire

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED

NOTES:

1. PER DIRECTION FROM IEPA, ANALYTICAL RESULTS ARE SCREENED AGAINST CRITERIA OUTLINED IN THE WRR RCRA PART B PERMIT.
2. GROUNDWATER CLASS I SCREENING CRITERIA.

Analyte	Screening Criteria (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Naphthalene	0.14
Toluene	1.0
1,3,5-Trimethylbenzene	0.07
bis(2-Ethylhexyl)phthalate	0.006
2-Methylnaphthalene	0.028
Phenol	0.1

3. J = THE TARGET ANALYTE DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
4. MULTIPLE RESULTS (e.g., 910/840) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
5. WELLS IDENTIFIED IN BLUE WITH NO DATA BOX INDICATE THE RESULTS DID NOT EXCEED SCREENING CRITERIA.
6. WELLS P-55R AND P-68 WERE NOT SAMPLED DURING 4Q16 DUE TO THE PRESENCE OF LNAPL.

Sample Location	MW-28
Sampled 10/13/16	Result (mg/L)
Benzene	0.0066

Sample Location	MW-27
Sampled 10/12/16	Result (mg/L)
bis(2-Ethylhexyl)phthalate	0.0077 J

Sample Location	ROST-4-PZ(C)
Sampled 10/13/16	Result (mg/L)
Benzene	0.025
2-Methylnaphthalene	0.063

Sample Location	T-12
Sampled 10/17/16	Result (mg/L)
Benzene	1.7

Sample Location	MW-22
Sampled 10/17/16	Result (mg/L)
Benzene	0.31 / 0.31
Ethylbenzene	0.86 / 0.89
1,3,5-Trimethylbenzene	0.097 / 0.092

Sample Location	P-74
Sampled 10/14/16	Result (mg/L)
Benzene	0.017

Sample Location	P-59
Sampled 10/18/16	Result (mg/L)
Benzene	8.7
Ethylbenzene	2.1
Naphthalene	0.19
Toluene	2.3
2-Methylnaphthalene	0.037

Sample Location	P-56
Sampled 10/17/16	Result (mg/L)
Benzene	0.019

Sample Location	MW-2
Sampled 10/13/16	Result (mg/L)
Benzene	0.013

Sample Location	P-93A	P-93B	P-93D
Sampled 10/17 & 10/18/16	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	2.6 / 3.3	86	0.023

Sample Location	P-57
Sampled 10/18/16	Result (mg/L)
Benzene	71
2-Methylnaphthalene	0.037
Phenol	1.1

Sample Location	MW-25
Sampled 10/6/16	Result (mg/L)
Benzene	0.37

Sample Location	MW-7
Sampled 10/6/16	Result (mg/L)
Benzene	910 / 840
Phenol	0.46 / 0.43

Sample Location	P-58
Sampled 10/18/16	Result (mg/L)
Benzene	340
2-Methylnaphthalene	0.052
Phenol	0.6

Sample Location	MW-8
Sampled 10/6/16	Result (mg/L)
Benzene	630
Phenol	0.29

Sample Location	P-66
Sampled 10/14/16	Result (mg/L)
Benzene	0.0069

MW-9, MW-10, MW-28, SECOND ST, MW-27, P-55R, NORTH PROPERTY, ROST-4-PZ(A), ROST-4-PZ(B), ROST-4-PZ(C), ROST-4-PZ, P-60-11, THIRD ST, ROST-3-MW, ROST-4-PZ(D), ROST-4-PZ(E), ROST-4-PZ(F), P-60-S, P-60-12, P-60, P-68, A–28, T-24, P-60-13, HIGHWAY 111 (S. CENTRAL AVE), MW-11, ROST-4-PZ(G), P-54, T-12, MW-17, MW-24, FOURTH ST, MW-22, P-69, WOOD RIVER REFINERY, A–27, P-70, MW-18, P-74, MW-19, P-59, P-61, FIFTH ST, MW-16, MW-12, VILLAGE OF ROXANA, P-56, MW-20, CHAFFEE AVE, SIXTH ST, MW-1, MW-2, BP, MW-26, SEVENTH ST, T-6, MW-21, P-57, P-93A, P-93B, P-93C, P-93D, MW-4, MW-3, P-73, MW-23, MW-5, MW-25, MW-7, EIGHTH ST, MW-8, P-58, 1986 APPROXIMATE BENZENE RELEASE SITE, RAND AVENUE, P-66, P-75, MW-13, MW-6A, MW-6B, MW-6C, MW-6D, WEST PROPERTY, MAIN PROPERTY, MW-14, P-114R

Ø 200
SCALE FEET

N

SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60477387

AECOM

DRN. BY: djd January 2017
DSGN. BY: lr
CHKD. BY: bbb

4Q16
Groundwater Monitoring Well Analytical Exceedances

FIG. NO. 5

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER\4Q16\DRAFT REPORT\FIGURES\FIGURE 6 DISSOLVED PHASE BENZENE CONCENTRATIONS IN GROUNDWATER.DWG Last edited: JAN. 04, 17 @ 3:51 p.m. by: david.deguire

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER MONITORING WELL, LNAPL THICKNESS IN FEET
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER, LNAPL THICKNESS IN FEET
- LNAPL THICKNESS (FEET)
- * INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN
- EXTENT OF EVS MODEL DATA SET
- 50.0 GROUNDWATER CONCENTRATION BENZENE (mg/L)

NOTES:

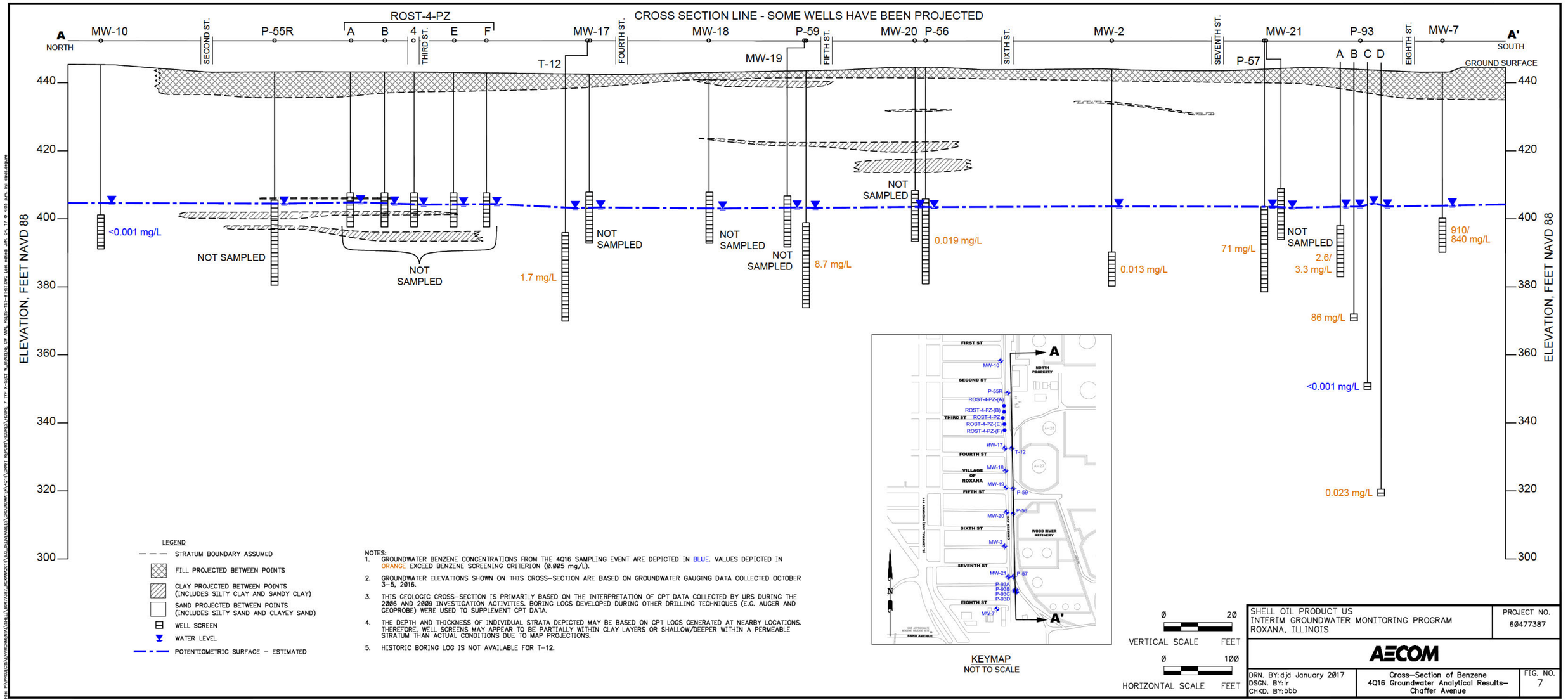
1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. GROUNDWATER MONITORING WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGEMENT AND CONTOUR 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., <Ø.ØØ1 mg/L).
4. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
5. MULTIPLE RESULTS (e.g. 91Ø/84Ø) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
6. CONTOUR LINES IN AREA OF P-55R ADJUSTED BASED ON AVAILABLE 4Q16 AND HISTORICAL ANALYTICAL DATA FROM WELLS IN THE AREA.

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

PZ-1(1Ø1)
PZ-1(85)
MW-9 Ø.ØØ24
MW-1Ø <Ø.ØØ1
MW-28 Ø.ØØ66
MW-27 <Ø.ØØ1
P-55R Ø.17*
0.10
6Ø-11
ROST-4-PZ(A)
ROST-4-PZ(B)
ROST-4-PZ(C) Ø.Ø25
ROST-4-PZ
ROST-3-MW <Ø.ØØ1
P-6Ø-S
ROST-4-PZ(D)
ROST-4-PZ(E)
ROST-4-PZ(F)
P-6Ø Ø.Ø5*
0.01
A-28
T-24
P-68 Ø.Ø7*
0.005
0.05
ROST-4-PZ(G)
MW-11 <Ø.ØØ1
P-54 <Ø.ØØ1
MW-17
0.01
T-12 1.7
P-69
0.01
P-7Ø Ø.Ø5*
MW-24 <Ø.ØØ1
MW-22 Ø.31/Ø.31
A-27
MW-18
0.5
5.0
MW-19
P-74 Ø.Ø17
P-61
P-59 8.7
0.05
MW-16 <Ø.ØØ1
PZ-2(84)
PZ-2(7Ø.5)
MW-12 <Ø.ØØ1
MW-2Ø
P-56 Ø.Ø19
MW-1 <Ø.ØØ1
MW-2 Ø.Ø13
MW-26 <Ø.ØØ1
T-6
MW-21
P-57 71
MW-3 <Ø.ØØ1
MW-4 <Ø.ØØ1
0.005
0.05
0.5
5.0
50.0
P-93A 2.6/3.3
P-93B 86
P-93C <Ø.ØØ1
P-93D Ø.Ø23
MW-25 Ø.37
500.0
MW-5 <Ø.ØØ1
MW-7 91Ø/84Ø
MW-8 63Ø
P-58 34Ø
MW-23 <Ø.ØØ1
P-66 Ø.ØØ69
P-75
MW-13 <Ø.ØØ1
MW-6A <Ø.ØØ1
MW-6B <Ø.ØØ1
MW-6C <Ø.ØØ1
MW-6D Ø.ØØ41/Ø.ØØ44
MW-14 <Ø.ØØ1
P-114R <Ø.ØØ1
P-116
P-115

Ø 2ØØ
SCALE FEET
N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 6Ø477387
AECOM	
DRN. BY: djd January 2Ø17 DSGN. BY:nm/lr CHKD. BY:bbb	4Q16 Dissolved Phase Benzene Concentrations in Groundwater
	FIG. NO. 6


CROSS SECTION LINE - SOME WELLS HAVE BEEN PROJECTED
A
NORTH
A'
SOUTH
MW-10
SECOND ST.
P-55R
ROST-4-PZ
A
B
4
THIRD ST.
E
F
MW-17
T-12
FOURTH ST.
MW-18
MW-19
P-59
FIFTH ST.
MW-20
P-56
SIXTH ST.
MW-2
SEVENTH ST.
P-57
MW-21
P-93
A B C D
EIGHTH ST.
MW-7
GROUND SURFACE
ELEVATION, FEET NAVD 88
440
420
400
380
360
340
320
300
<0.001 mg/L
NOT SAMPLED
NOT SAMPLED
1.7 mg/L
NOT SAMPLED
NOT SAMPLED
NOT SAMPLED
8.7 mg/L
NOT SAMPLED
0.019 mg/L
0.013 mg/L
71 mg/L
NOT SAMPLED
2.6/
3.3 mg/L
910/
840 mg/L
86 mg/L
<0.001 mg/L
0.023 mg/L
LEGEND
STRATUM BOUNDARY ASSUMED
FILL PROJECTED BETWEEN POINTS
CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
WELL SCREEN
WATER LEVEL
POTENTIOMETRIC SURFACE – ESTIMATED
NOTES:
1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 4Q16 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.005 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED OCTOBER 3-5, 2016.
3. THIS GEOLOGIC 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 THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON 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. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-12.
FIRST ST
SECOND ST
THIRD ST
FOURTH ST
VILLAGE OF ROXANA
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
CHAFFEE AVE
(S. CENTRAL AVE) HIGHWAY 111
NORTH PROPERTY
WOOD RIVER REFINERY
N
KEYMAP
NOT TO SCALE
Ø
20
VERTICAL SCALE
FEET
Ø
100
HORIZONTAL SCALE
FEET
SHELL OIL PRODUCT US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS
PROJECT NO.
60477387
AECOM
DRN. BY: djd January 2017
DSGN. BY: lr
CHKD. BY: bbb
Cross-Section of Benzene
4Q16 Groundwater Analytical Results-
Chaffer Avenue
FIG. NO.
7

CROSS SECTION LINE - SOME WELLS HAVE BEEN PROJECTED

WEST B — B' EAST

MW-6D MW-6C MW-6B MW-6A SVE-27 MW-7 P-93A P-93B P-93C P-93D T-6

(S. CENTARL AVE) HIGHWAY 111 — EIGHTH ST — SEVENTH ST

GROUND SURFACE

ELEVATION, FEET NAVD 88

440 420 400 380 360 340 320

<0.001 mg/L

<0.001 mg/L

<0.001 mg/L

0.0041/
0.0044 mg/L

910/
840 mg/L

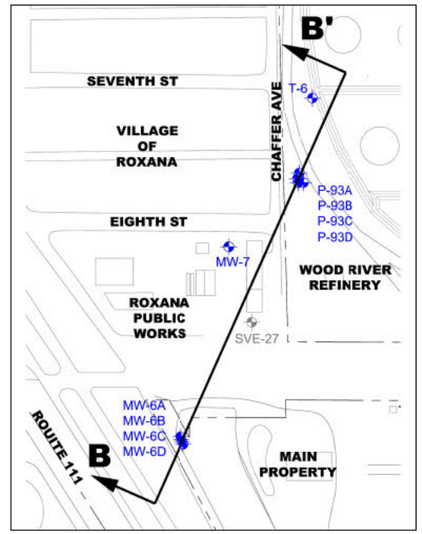
2.6/
3.3 mg/L

86 mg/L

<0.001 mg/L

NOT SAMPLED

0.023 mg/L



KEYMAP
NOT TO SCALE

LEGEND

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

VERTICAL SCALE: Ø 20 FEET

HORIZONTAL SCALE: Ø 100 FEET

NOTES:
1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 4Q16 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (Ø.ØØ5 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED OCTOBER 3-5, 2Ø16.
3. THIS GEOLOGIC CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2ØØ6 AND 2ØØ9 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON 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. LITHOLOGICAL INFORMATION FROM SVE-27 WAS OBTAINED FROM BORING LOG TO SUPPLEMENT SITE GEOLOGY ONLY.
6. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-6.

SHELL OIL PRODUCT US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 6Ø477387
AECOM		
DRN. BY: djd January 2Ø17 DSGN. BY: lr CHKD. BY: wmp	Cross-Section of Benzene 4Q16 Groundwater Analytical Results- Roxana Public Works Yard	FIG. NO. 8

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60477387_ROXANA2016\6.0_DELIVERABLES\GROUNDWATER 4Q16\DRAFT REPORT\FIGURES\FIGURE 8 TYP X-SECT W_BENZENE GW ANAL RSLTS-HWY111-CHAFFER.DWG Last edited: JAN. 04, 17 @ 4:13 p.m. by: david.deguire

Appendix A.
Groundwater Sampling Data – MW-21

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387-1.03.004 FIELD PERSONNEL: M. Karrick J. Clark

DATE: 11/29/16 WEATHER: 48° Cloudy

MONITORING WELL ID: MW-21 SAMPLE ID: MW21-ROX-112916

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 50.30 ft
Depth to Water (btoc): 39.70 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 35.30 ft
Screen Length: 15 ft

Water Column Height (do not include LNAPL or DNAPL): 10.60 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 2.9 ppm
Wellbore PID/FID Reading: 0.0 ppm

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 44.70 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc

~~If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc~~

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0954	39.70	Clear	Slight hydrocarbon like odor	6.91	1.313	85	0.19	22.22	14.9
600	0956	39.71			6.74	1.302	49	0.17	19.65	18.23
1200	0958	39.71			6.75	1.340	14	0.13	15.18	18.60
1800	1000	39.71			6.72	1.311	-1	0.11	14.50	18.88
2400	1002	39.71			6.78	1.284	-12	0.09	12.93	19.03
3000	1004	39.71			6.79	1.268	~~-13~~ -15	0.09	11.31	19.16

Start Time: 0954 Elapsed Time (min): 10 min Water Quality Meter ID & SN: TROLL 9500 - R27089

Stop Time: 1004 Average Purge Rate (mL/min): 300 Date Calibrated: 11/29/16

SAMPLING DATA

Sample Date: 11/29/16 Sample Time: 1010 Lab Analysis: VOC, ~~SVOC~~

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: EB, Dup

VOA Vials, No Headspace ☑ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: ~~3000~~ 3000 mL

Appendix A
SUMMARY OF MW-21 ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs													
						Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Cymene (p-Isopropyltoluene)	Ethylbenzene	Isopropylbenzene (Cumene)	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.005 [1]	0.35 [3]	0.7 [3]	0.7 [3]		0.7 [1]	0.7 [1]	0.14 [1]	0.7 [3]	1.0 [1]		0.07 [3]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)													
MW-21	MW21-ROX-040513	4/5/2013	35.30 - 50.30	39.70	NE	368	0.0309	0.0246	0.0143	0.0186	0.519 J	0.0834	0.175 J	0.124	0.015	0.302	0.0939	0.204	0.0034	0.207
MW-21	MW21-ROX-040513-DUP	4/5/2013		39.70	NE	364	0.0298	0.0239	0.0142	0.0182	0.399	0.0812	0.132 J	0.118	0.0144	0.287	0.0903	0.196	0.0029	0.199

Notes:

1 Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

4 Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historical results were reported by PAH analysis.

5 Beginning in 4Q13, professional judgment criteria used to review common laboratory contaminants was reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

6 The laboratory has been requested to perform a library search in all samples for butane, hexane, isopentane, 1,2,3-trimethylbenzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

Indicates a current exceedance of screening criteria.

LABORATORY QUALIFIERS

J = The analyte was detected below the reporting limit. Result is estimated.

<#.## Indicates the analyte was not detected above the given reporting limit.

AECOM QUALIFIERS

J = The result is estimated.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-130674-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/9/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
MW21-ROX-112916-EB	MW21-ROX-112916
MW21-ROX-112916-Dup	TB-ROX-112916-8260

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, VOCs, with the exception of chloroform, were minimally diluted in to bring analyte concentrations within calibration range. These issues are addressed further in the appropriate sections below.

Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

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 Method Blanks, Field Blanks or Trip Blanks?

No

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?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW21-ROX-112916	MW21-ROX-112916-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

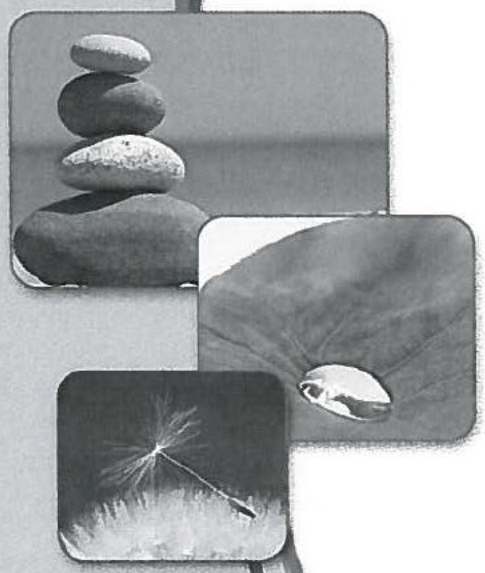
For samples that were diluted and nondetect, were undiluted results also reported?

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

12.0 Additional Qualifications

Were additional qualifications applied?

No



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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-130674-1
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
12/8/2016 5:15:35 PM

Carolyn Hooper, Project Manager I
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LINKS

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Reviewed 12/9/16 MH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-130674-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-130674-1

Receipt
The samples were received on 11/30/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-333626 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-333626 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW21-ROX-112916-EB (400-130674-1); MW21-ROX-112916 (400-130674-2), MW21-ROX-112916-DUP (400-130674-3) and TB-ROX-112916-8260 (400-130674-4). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-333813 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-333813 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-333813 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-130674-1	MW21-ROX-112916-EB	Water	11/29/16 09:35	11/30/16 08:45
400-130674-2	MW21-ROX-112916	Water	11/29/16 10:10	11/30/16 08:45
400-130674-3	MW21-ROX-112916-DUP	Water	11/29/16 10:10	11/30/16 08:45
400-130674-4	TB-ROX-112916-8260	Water	11/29/16 00:00	11/30/16 08:45

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Client Sample ID: MW21-ROX-112916-EB

Lab Sample ID: 400-130674-1

No Detections.

Client Sample ID: MW21-ROX-112916

Lab Sample ID: 400-130674-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	470		2.0	0.76	ug/L	2		8260B	Total/NA
Isopropylbenzene - DL	8.1		2.0	1.1	ug/L	2		8260B	Total/NA
N-Propylbenzene - DL	9.4		2.0	1.4	ug/L	2		8260B	Total/NA
sec-Butylbenzene - DL	4.1		2.0	1.4	ug/L	2		8260B	Total/NA
tert-Butylbenzene - DL	1.9	J	2.0	1.3	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	2.6		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene - DL	2.4		2.0	1.1	ug/L	2		8260B	Total/NA

Client Sample ID: MW21-ROX-112916-DUP

Lab Sample ID: 400-130674-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	600		2.0	0.76	ug/L	2		8260B	Total/NA
Isopropylbenzene - DL	8.9		2.0	1.1	ug/L	2		8260B	Total/NA
N-Propylbenzene - DL	11		2.0	1.4	ug/L	2		8260B	Total/NA
sec-Butylbenzene - DL	4.4		2.0	1.4	ug/L	2		8260B	Total/NA
tert-Butylbenzene - DL	2.0		2.0	1.3	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	3.2		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene - DL	3.0		2.0	1.1	ug/L	2		8260B	Total/NA

Client Sample ID: TB-ROX-112916-8260

Lab Sample ID: 400-130674-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW21-ROX-112916-EB
Date Collected: 11/29/16 09:35
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			12/06/16 12:49	1
Acrolein	ND		20	10	ug/L			12/06/16 12:49	1
Acrylonitrile	ND		10	2.8	ug/L			12/06/16 12:49	1
Benzene	ND		1.0	0.38	ug/L			12/06/16 12:49	1
Bromobenzene	ND		1.0	0.54	ug/L			12/06/16 12:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			12/06/16 12:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Bromoform	ND		5.0	0.71	ug/L			12/06/16 12:49	1
Bromomethane	ND		1.0	0.98	ug/L			12/06/16 12:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			12/06/16 12:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Dibromochloromethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Chloroethane	ND		1.0	0.76	ug/L			12/06/16 12:49	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			12/06/16 12:49	1
Chloroform	ND		1.0	0.60	ug/L			12/06/16 12:49	1
1-Chlorohexane	ND		1.0	0.70	ug/L			12/06/16 12:49	1
Chloromethane	ND		1.0	0.83	ug/L			12/06/16 12:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/06/16 12:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			12/06/16 12:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			12/06/16 12:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			12/06/16 12:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			12/06/16 12:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			12/06/16 12:49	1
2-Hexanone	ND		25	3.1	ug/L			12/06/16 12:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			12/06/16 12:49	1
Methylene bromide	ND		5.0	0.59	ug/L			12/06/16 12:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			12/06/16 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			12/06/16 12:49	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			12/06/16 12:49	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			12/06/16 12:49	1
Naphthalene	ND		1.0	1.0	ug/L			12/06/16 12:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			12/06/16 12:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			12/06/16 12:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			12/06/16 12:49	1
o-Xylene	ND		5.0	0.60	ug/L			12/06/16 12:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			12/06/16 12:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			12/06/16 12:49	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Client Sample ID: MW21-ROX-112916-EB
Date Collected: 11/29/16 09:35
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			12/06/16 12:49	1
Styrene	ND		1.0	1.0	ug/L			12/06/16 12:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			12/06/16 12:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			12/06/16 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Tetrachloroethene	ND		1.0	0.58	ug/L			12/06/16 12:49	1
Toluene	ND		1.0	0.70	ug/L			12/06/16 12:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/06/16 12:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			12/06/16 12:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			12/06/16 12:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			12/06/16 12:49	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			12/06/16 12:49	1
Trichloroethene	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			12/06/16 12:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			12/06/16 12:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			12/06/16 12:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			12/06/16 12:49	1
Vinyl acetate	ND		25	2.0	ug/L			12/06/16 12:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			12/06/16 12:49	1
Xylenes, Total	ND		10	1.6	ug/L			12/06/16 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*78 - 118*		*12/06/16 12:49*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*12/06/16 12:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/06/16 12:49*	*1*

Client Sample ID: MW21-ROX-112916
Date Collected: 11/29/16 10:10
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.60	ug/L			12/06/16 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*78 - 118*		*12/06/16 19:48*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*12/06/16 19:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/06/16 19:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	20	ug/L			12/05/16 10:54	2
Acrolein	ND		40	20	ug/L			12/05/16 10:54	2
Acrylonitrile	ND		20	5.6	ug/L			12/05/16 10:54	2
Benzene	**470**		2.0	0.76	ug/L			12/05/16 10:54	2
Bromobenzene	ND		2.0	1.1	ug/L			12/05/16 10:54	2
Bromochloromethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Bromodichloromethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Bromoform	ND		10	1.4	ug/L			12/05/16 10:54	2
Bromomethane	ND		2.0	2.0	ug/L			12/05/16 10:54	2
2-Butanone (MEK)	ND		50	5.2	ug/L			12/05/16 10:54	2
Carbon disulfide	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Chlorobenzene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Dibromochloromethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Chloroethane	ND		2.0	1.5	ug/L			12/05/16 10:54	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			12/05/16 10:54	2
1-Chlorohexane	ND		2.0	1.4	ug/L			12/05/16 10:54	2
Chloromethane	ND		2.0	1.7	ug/L			12/05/16 10:54	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			12/05/16 10:54	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			12/05/16 10:54	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			12/05/16 10:54	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			12/05/16 10:54	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Ethylbenzene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			12/05/16 10:54	2
Hexachlorobutadiene	ND		10	1.8	ug/L			12/05/16 10:54	2
2-Hexanone	ND		50	6.2	ug/L			12/05/16 10:54	2
Isopropylbenzene	**8.1**		2.0	1.1	ug/L			12/05/16 10:54	2
Methylene bromide	ND		10	1.2	ug/L			12/05/16 10:54	2
Methylene Chloride	ND		10	6.0	ug/L			12/05/16 10:54	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			12/05/16 10:54	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			12/05/16 10:54	2
m-Xylene & p-Xylene	ND		10	3.2	ug/L			12/05/16 10:54	2

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Client Sample ID: MW21-ROX-112916
Date Collected: 11/29/16 10:10
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	2.0	ug/L			12/05/16 10:54	2
n-Butylbenzene	ND		2.0	1.5	ug/L			12/05/16 10:54	2
N-Propylbenzene	**9.4**		2.0	1.4	ug/L			12/05/16 10:54	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			12/05/16 10:54	2
o-Xylene	ND		10	1.2	ug/L			12/05/16 10:54	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			12/05/16 10:54	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			12/05/16 10:54	2
sec-Butylbenzene	**4.1**		2.0	1.4	ug/L			12/05/16 10:54	2
Styrene	ND		2.0	2.0	ug/L			12/05/16 10:54	2
tert-Butylbenzene	**1.9**	J	2.0	1.3	ug/L			12/05/16 10:54	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Tetrachloroethene	ND		2.0	1.2	ug/L			12/05/16 10:54	2
Toluene	ND		2.0	1.4	ug/L			12/05/16 10:54	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			12/05/16 10:54	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			12/05/16 10:54	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			12/05/16 10:54	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			12/05/16 10:54	2
Trichloroethene	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			12/05/16 10:54	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			12/05/16 10:54	2
1,2,4-Trimethylbenzene	**2.6**		2.0	1.6	ug/L			12/05/16 10:54	2
1,3,5-Trimethylbenzene	**2.4**		2.0	1.1	ug/L			12/05/16 10:54	2
Vinyl acetate	ND		50	4.0	ug/L			12/05/16 10:54	2
Vinyl chloride	ND		2.0	1.0	ug/L			12/05/16 10:54	2
Xylenes, Total	ND		20	3.2	ug/L			12/05/16 10:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*78 - 118*		*12/05/16 10:54*	*2*
Dibromofluoromethane	*94*		*81 - 121*		*12/05/16 10:54*	*2*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/05/16 10:54*	*2*

Client Sample ID: MW21-ROX-112916-DUP
Date Collected: 11/29/16 10:10
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.60	ug/L			12/05/16 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*78 - 118*		*12/05/16 12:13*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*12/05/16 12:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/05/16 12:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	20	ug/L			12/05/16 11:19	2
Acrolein	ND		40	20	ug/L			12/05/16 11:19	2
Acrylonitrile	ND		20	5.6	ug/L			12/05/16 11:19	2
Benzene	**600**		2.0	0.76	ug/L			12/05/16 11:19	2
Bromobenzene	ND		2.0	1.1	ug/L			12/05/16 11:19	2
Bromochloromethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Bromodichloromethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Bromoform	ND		10	1.4	ug/L			12/05/16 11:19	2
Bromomethane	ND		2.0	2.0	ug/L			12/05/16 11:19	2
2-Butanone (MEK)	ND		50	5.2	ug/L			12/05/16 11:19	2
Carbon disulfide	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Chlorobenzene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Dibromochloromethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Chloroethane	ND		2.0	1.5	ug/L			12/05/16 11:19	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			12/05/16 11:19	2
1-Chlorohexane	ND		2.0	1.4	ug/L			12/05/16 11:19	2
Chloromethane	ND		2.0	1.7	ug/L			12/05/16 11:19	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			12/05/16 11:19	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			12/05/16 11:19	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			12/05/16 11:19	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			12/05/16 11:19	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Ethylbenzene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			12/05/16 11:19	2
Hexachlorobutadiene	ND		10	1.8	ug/L			12/05/16 11:19	2
2-Hexanone	ND		50	6.2	ug/L			12/05/16 11:19	2
Isopropylbenzene	**8.9**		2.0	1.1	ug/L			12/05/16 11:19	2
Methylene bromide	ND		10	1.2	ug/L			12/05/16 11:19	2
Methylene Chloride	ND		10	6.0	ug/L			12/05/16 11:19	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			12/05/16 11:19	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			12/05/16 11:19	2
m-Xylene & p-Xylene	ND		10	3.2	ug/L			12/05/16 11:19	2

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Client Sample ID: MW21-ROX-112916-DUP
Date Collected: 11/29/16 10:10
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	2.0	ug/L			12/05/16 11:19	2
n-Butylbenzene	ND		2.0	1.5	ug/L			12/05/16 11:19	2
N-Propylbenzene	**11**		2.0	1.4	ug/L			12/05/16 11:19	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			12/05/16 11:19	2
o-Xylene	ND		10	1.2	ug/L			12/05/16 11:19	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			12/05/16 11:19	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			12/05/16 11:19	2
sec-Butylbenzene	**4.4**		2.0	1.4	ug/L			12/05/16 11:19	2
Styrene	ND		2.0	2.0	ug/L			12/05/16 11:19	2
tert-Butylbenzene	**2.0**		2.0	1.3	ug/L			12/05/16 11:19	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Tetrachloroethene	ND		2.0	1.2	ug/L			12/05/16 11:19	2
Toluene	ND		2.0	1.4	ug/L			12/05/16 11:19	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			12/05/16 11:19	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			12/05/16 11:19	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			12/05/16 11:19	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			12/05/16 11:19	2
Trichloroethene	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			12/05/16 11:19	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			12/05/16 11:19	2
1,2,4-Trimethylbenzene	**3.2**		2.0	1.6	ug/L			12/05/16 11:19	2
1,3,5-Trimethylbenzene	**3.0**		2.0	1.1	ug/L			12/05/16 11:19	2
Vinyl acetate	ND		50	4.0	ug/L			12/05/16 11:19	2
Vinyl chloride	ND		2.0	1.0	ug/L			12/05/16 11:19	2
Xylenes, Total	ND		20	3.2	ug/L			12/05/16 11:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*78 - 118*		*12/05/16 11:19*	*2*
Dibromofluoromethane	*97*		*81 - 121*		*12/05/16 11:19*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/05/16 11:19*	*2*

Client Sample ID: TB-ROX-112916-8260
Date Collected: 11/29/16 00:00
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			12/05/16 09:40	1
Acrolein	ND		20	10	ug/L			12/05/16 09:40	1
Acrylonitrile	ND		10	2.8	ug/L			12/05/16 09:40	1
Benzene	ND		1.0	0.38	ug/L			12/05/16 09:40	1
Bromobenzene	ND		1.0	0.54	ug/L			12/05/16 09:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			12/05/16 09:40	1
Bromodichloromethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Bromoform	ND		5.0	0.71	ug/L			12/05/16 09:40	1
Bromomethane	ND		1.0	0.98	ug/L			12/05/16 09:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			12/05/16 09:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Chloroethane	ND		1.0	0.76	ug/L			12/05/16 09:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			12/05/16 09:40	1
Chloroform	ND		1.0	0.60	ug/L			12/05/16 09:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			12/05/16 09:40	1
Chloromethane	ND		1.0	0.83	ug/L			12/05/16 09:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/05/16 09:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			12/05/16 09:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			12/05/16 09:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			12/05/16 09:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			12/05/16 09:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			12/05/16 09:40	1
2-Hexanone	ND		25	3.1	ug/L			12/05/16 09:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			12/05/16 09:40	1
Methylene bromide	ND		5.0	0.59	ug/L			12/05/16 09:40	1
Methylene Chloride	ND		5.0	3.0	ug/L			12/05/16 09:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			12/05/16 09:40	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			12/05/16 09:40	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			12/05/16 09:40	1
Naphthalene	ND		1.0	1.0	ug/L			12/05/16 09:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			12/05/16 09:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			12/05/16 09:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			12/05/16 09:40	1
o-Xylene	ND		5.0	0.60	ug/L			12/05/16 09:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			12/05/16 09:40	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			12/05/16 09:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Client Sample ID: TB-ROX-112916-8260
Date Collected: 11/29/16 00:00
Date Received: 11/30/16 08:45

Lab Sample ID: 400-130674-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			12/05/16 09:40	1
Styrene	ND		1.0	1.0	ug/L			12/05/16 09:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			12/05/16 09:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			12/05/16 09:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			12/05/16 09:40	1
Toluene	ND		1.0	0.70	ug/L			12/05/16 09:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/05/16 09:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			12/05/16 09:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			12/05/16 09:40	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			12/05/16 09:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			12/05/16 09:40	1
Trichloroethene	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			12/05/16 09:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			12/05/16 09:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			12/05/16 09:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			12/05/16 09:40	1
Vinyl acetate	ND		25	2.0	ug/L			12/05/16 09:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			12/05/16 09:40	1
Xylenes, Total	ND		10	1.6	ug/L			12/05/16 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*78 - 118*		*12/05/16 09:40*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*12/05/16 09:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/05/16 09:40*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-130674-1	MW21-ROX-112916-EB	112	104	99
400-130674-2 - DL	MW21-ROX-112916	115	94	102
400-130674-2	MW21-ROX-112916	110	97	98
400-130674-3 - DL	MW21-ROX-112916-DUP	117	97	101
400-130674-3	MW21-ROX-112916-DUP	116	96	101
400-130674-4	TB-ROX-112916-8260	115	103	100
400-130758-A-9 MS	Matrix Spike	95	100	99
400-130758-A-9 MSD	Matrix Spike Duplicate	99	105	97
400-130786-B-1 MS	Matrix Spike	94	109	95
400-130786-B-1 MSD	Matrix Spike Duplicate	95	112	93
LCS 400-333626/1002	Lab Control Sample	94	105	99
LCS 400-333813/1002	Lab Control Sample	92	108	96
MB 400-333626/4	Method Blank	115	102	99
MB 400-333813/4	Method Blank	115	100	98

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: MW21-ROX-112916-EB

Lab Sample ID: 400-130674-1

Date Collected: 11/29/16 09:35
Matrix: Water
Date Received: 11/30/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 12:49	CLN	TAL PEN

Client Sample ID: MW21-ROX-112916

Lab Sample ID: 400-130674-2

Date Collected: 11/29/16 10:10
Matrix: Water
Date Received: 11/30/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	333626	12/05/16 10:54	CLN	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 19:48	CLN	TAL PEN

Client Sample ID: MW21-ROX-112916-DUP

Lab Sample ID: 400-130674-3

Date Collected: 11/29/16 10:10
Matrix: Water
Date Received: 11/30/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	333626	12/05/16 11:19	CLN	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 12:13	CLN	TAL PEN

Client Sample ID: TB-ROX-112916-8260

Lab Sample ID: 400-130674-4

Date Collected: 11/29/16 00:00
Matrix: Water
Date Received: 11/30/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 09:40	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-333626/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 08:52	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-333813/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 11:56	CLN	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-333626/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 07:39	CLN	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-333813/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 09:04	CLN	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-130758-A-9 MS**
Date Collected: 11/29/16 09:30 — **Matrix: Water**
Date Received: 11/30/16 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 12:37	CLN	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-130758-A-9 MSD**
Date Collected: 11/29/16 09:30 — **Matrix: Water**
Date Received: 11/30/16 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333626	12/05/16 13:02	CLN	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-130786-B-1 MS**
Date Collected: 11/30/16 14:30 — **Matrix: Water**
Date Received: 12/01/16 08:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 09:45	CLN	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-130786-B-1 MSD**
Date Collected: 11/30/16 14:30 — **Matrix: Water**
Date Received: 12/01/16 08:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	333813	12/06/16 10:11	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 333626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130674-2 - DL	MW21-ROX-112916	Total/NA	Water	8260B	
400-130674-3 - DL	MW21-ROX-112916-DUP	Total/NA	Water	8260B	
400-130674-3	MW21-ROX-112916-DUP	Total/NA	Water	8260B	
400-130674-4	TB-ROX-112916-8260	Total/NA	Water	8260B	
MB 400-333626/4	Method Blank	Total/NA	Water	8260B	
LCS 400-333626/1002	Lab Control Sample	Total/NA	Water	8260B	
400-130758-A-9 MS	Matrix Spike	Total/NA	Water	8260B	
400-130758-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 333813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130674-1	MW21-ROX-112916-EB	Total/NA	Water	8260B	
400-130674-2	MW21-ROX-112916	Total/NA	Water	8260B	
MB 400-333813/4	Method Blank	Total/NA	Water	8260B	
LCS 400-333813/1002	Lab Control Sample	Total/NA	Water	8260B	
400-130786-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-130786-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-333626/4
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			12/05/16 08:52	1
Acrolein	ND		20	10	ug/L			12/05/16 08:52	1
Acrylonitrile	ND		10	2.8	ug/L			12/05/16 08:52	1
Benzene	ND		1.0	0.38	ug/L			12/05/16 08:52	1
Bromobenzene	ND		1.0	0.54	ug/L			12/05/16 08:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			12/05/16 08:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Bromoform	ND		5.0	0.71	ug/L			12/05/16 08:52	1
Bromomethane	ND		1.0	0.98	ug/L			12/05/16 08:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			12/05/16 08:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Chloroethane	ND		1.0	0.76	ug/L			12/05/16 08:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			12/05/16 08:52	1
Chloroform	ND		1.0	0.60	ug/L			12/05/16 08:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			12/05/16 08:52	1
Chloromethane	ND		1.0	0.83	ug/L			12/05/16 08:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/05/16 08:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			12/05/16 08:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			12/05/16 08:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			12/05/16 08:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			12/05/16 08:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			12/05/16 08:52	1
2-Hexanone	ND		25	3.1	ug/L			12/05/16 08:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			12/05/16 08:52	1
Methylene bromide	ND		5.0	0.59	ug/L			12/05/16 08:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			12/05/16 08:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			12/05/16 08:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			12/05/16 08:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			12/05/16 08:52	1
Naphthalene	ND		1.0	1.0	ug/L			12/05/16 08:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			12/05/16 08:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			12/05/16 08:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			12/05/16 08:52	1
o-Xylene	ND		5.0	0.60	ug/L			12/05/16 08:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			12/05/16 08:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-333626/4
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			12/05/16 08:52	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			12/05/16 08:52	1
Styrene	ND		1.0	1.0	ug/L			12/05/16 08:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			12/05/16 08:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			12/05/16 08:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			12/05/16 08:52	1
Toluene	ND		1.0	0.70	ug/L			12/05/16 08:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/05/16 08:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			12/05/16 08:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			12/05/16 08:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			12/05/16 08:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			12/05/16 08:52	1
Trichloroethene	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			12/05/16 08:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			12/05/16 08:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			12/05/16 08:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			12/05/16 08:52	1
Vinyl acetate	ND		25	2.0	ug/L			12/05/16 08:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			12/05/16 08:52	1
Xylenes, Total	ND		10	1.6	ug/L			12/05/16 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*78 - 118*		*12/05/16 08:52*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*12/05/16 08:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/05/16 08:52*	*1*

Lab Sample ID: LCS 400-333626/1002
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	182		ug/L		91	43 - 160
Acrolein	500	482		ug/L		96	38 - 160
Acrylonitrile	500	443		ug/L		89	64 - 142
Benzene	50.0	49.2		ug/L		98	70 - 130
Bromobenzene	50.0	46.3		ug/L		93	70 - 132
Bromochloromethane	50.0	51.3		ug/L		103	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	67 - 133
Bromoform	50.0	43.2		ug/L		86	57 - 140
Bromomethane	50.0	44.2		ug/L		88	10 - 160
2-Butanone (MEK)	200	181		ug/L		90	61 - 145
Carbon disulfide	50.0	48.0		ug/L		96	61 - 137
Carbon tetrachloride	50.0	41.0		ug/L		82	61 - 137
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130
Dibromochloromethane	50.0	47.1		ug/L		94	67 - 135
Chloroethane	50.0	48.2		ug/L		96	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-333626/1002
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	54.7		ug/L		109	10 - 160
Chloroform	50.0	52.5		ug/L		105	69 - 130
1-Chlorohexane	50.0	47.5		ug/L		95	69 - 130
Chloromethane	50.0	41.3		ug/L		83	58 - 137
cis-1,2-Dichloroethene	50.0	46.3		ug/L		93	68 - 130
cis-1,3-Dichloropropene	50.0	43.8		ug/L		88	69 - 132
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	67 - 130
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	50.6		ug/L		101	41 - 146
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	51.1		ug/L		102	69 - 130
1,1-Dichloroethene	50.0	47.9		ug/L		96	63 - 134
1,2-Dichloropropane	50.0	46.0		ug/L		92	70 - 130
1,3-Dichloropropane	50.0	48.5		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	30.0		ug/L		60	52 - 135
1,1-Dichloropropene	50.0	51.0		ug/L		102	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Ethyl methacrylate	50.0	40.8		ug/L		82	68 - 130
Hexachlorobutadiene	50.0	46.2		ug/L		92	53 - 140
2-Hexanone	200	172		ug/L		86	65 - 137
Isopropylbenzene	50.0	53.2		ug/L		106	70 - 130
Methylene bromide	50.0	50.4		ug/L		101	70 - 130
Methylene Chloride	50.0	50.4		ug/L		101	66 - 135
4-Methyl-2-pentanone (MIBK)	200	167		ug/L		84	69 - 138
Methyl tert-butyl ether	50.0	44.1		ug/L		88	66 - 130
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	70 - 130
Naphthalene	50.0	41.3		ug/L		83	47 - 149
n-Butylbenzene	50.0	45.1		ug/L		90	67 - 130
N-Propylbenzene	50.0	46.7		ug/L		93	70 - 130
o-Chlorotoluene	50.0	47.8		ug/L		96	70 - 130
o-Xylene	50.0	50.7		ug/L		101	70 - 130
p-Chlorotoluene	50.0	46.7		ug/L		93	70 - 130
p-Isopropyltoluene	50.0	48.5		ug/L		97	65 - 130
sec-Butylbenzene	50.0	47.3		ug/L		95	66 - 130
Styrene	50.0	48.5		ug/L		97	70 - 130
tert-Butylbenzene	50.0	49.9		ug/L		100	64 - 139
1,1,1,2-Tetrachloroethane	50.0	44.8		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.4		ug/L		87	70 - 131
Tetrachloroethene	50.0	50.2		ug/L		100	65 - 130
Toluene	50.0	50.5		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	38.0		ug/L		76	63 - 130
1,2,3-Trichlorobenzene	50.0	42.0		ug/L		84	60 - 138
1,2,4-Trichlorobenzene	50.0	42.2		ug/L		84	60 - 140
1,1,1-Trichloroethane	50.0	45.0		ug/L		90	68 - 130
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	70 - 130
Trichloroethene	50.0	49.9		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-333626/1002
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	49.2		ug/L		98	65 - 138
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	47.0		ug/L		94	69 - 130
Vinyl acetate	100	80.4		ug/L		80	26 - 160
Vinyl chloride	50.0	44.5		ug/L		89	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-130758-A-9 MS
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	160		ug/L		80	43 - 160
Acrolein	ND		500	478		ug/L		96	38 - 160
Acrylonitrile	ND		500	431		ug/L		86	62 - 149
Benzene	0.96	J	50.0	50.5		ug/L		99	56 - 142
Bromobenzene	ND		50.0	38.7		ug/L		77	59 - 136
Bromochloromethane	ND		50.0	47.5		ug/L		95	64 - 140
Bromodichloromethane	ND		50.0	46.3		ug/L		93	59 - 143
Bromoform	ND		50.0	38.1		ug/L		76	50 - 140
Bromomethane	ND		50.0	40.8		ug/L		82	10 - 160
2-Butanone (MEK)	ND		200	167		ug/L		83	55 - 150
Carbon disulfide	ND		50.0	43.1		ug/L		86	48 - 152
Carbon tetrachloride	ND		50.0	36.7		ug/L		73	55 - 145
Chlorobenzene	ND		50.0	43.8		ug/L		88	64 - 130
Dibromochloromethane	ND		50.0	41.7		ug/L		83	56 - 143
Chloroethane	ND		50.0	41.9		ug/L		84	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	49.5		ug/L		99	60 - 141
1-Chlorohexane	ND		50.0	38.9		ug/L		78	56 - 136
Chloromethane	ND		50.0	35.4		ug/L		71	49 - 148
cis-1,2-Dichloroethene	ND		50.0	43.2		ug/L		86	59 - 143
cis-1,3-Dichloropropene	ND		50.0	40.2		ug/L		80	57 - 140
1,2-Dichlorobenzene	ND		50.0	40.6		ug/L		81	52 - 137
1,3-Dichlorobenzene	ND		50.0	40.7		ug/L		81	54 - 135
1,4-Dichlorobenzene	ND		50.0	39.3		ug/L		79	53 - 135
Dichlorodifluoromethane	ND		50.0	42.5		ug/L		85	16 - 160
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	61 - 144
1,2-Dichloroethane	ND		50.0	48.3		ug/L		97	60 - 141
1,1-Dichloroethene	ND		50.0	43.6		ug/L		87	54 - 147
1,2-Dichloropropane	ND		50.0	43.8		ug/L		88	66 - 137
1,3-Dichloropropane	ND		50.0	46.6		ug/L		93	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130758-A-9 MS
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	26.8		ug/L		54	42 - 144
1,1-Dichloropropene	ND		50.0	45.8		ug/L		92	65 - 136
Ethylbenzene	ND		50.0	43.5		ug/L		87	58 - 131
Ethyl methacrylate	ND		50.0	40.1		ug/L		80	64 - 130
Hexachlorobutadiene	ND		50.0	32.5		ug/L		65	31 - 149
2-Hexanone	ND		200	150		ug/L		75	65 - 140
Isopropylbenzene	ND		50.0	43.3		ug/L		87	56 - 133
Methylene bromide	ND		50.0	46.8		ug/L		94	63 - 138
Methylene Chloride	ND		50.0	46.4		ug/L		93	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	161		ug/L		80	63 - 146
Methyl tert-butyl ether	ND		50.0	42.3		ug/L		85	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.1		ug/L		86	57 - 130
Naphthalene	ND		50.0	34.5		ug/L		69	25 - 160
n-Butylbenzene	ND		50.0	35.2		ug/L		70	41 - 142
N-Propylbenzene	ND		50.0	37.4		ug/L		75	51 - 138
o-Chlorotoluene	ND		50.0	38.7		ug/L		77	53 - 134
o-Xylene	ND		50.0	43.8		ug/L		88	61 - 130
p-Chlorotoluene	ND		50.0	38.2		ug/L		76	54 - 133
p-Isopropyltoluene	ND		50.0	37.7		ug/L		75	48 - 139
sec-Butylbenzene	ND		50.0	37.2		ug/L		74	50 - 138
Styrene	ND		50.0	42.0		ug/L		84	58 - 131
tert-Butylbenzene	ND		50.0	46.4		ug/L		93	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	38.4		ug/L		77	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	39.9		ug/L		80	66 - 135
Tetrachloroethene	ND		50.0	42.8		ug/L		86	52 - 133
Toluene	ND		50.0	44.8		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	44.6		ug/L		89	61 - 143
trans-1,3-Dichloropropene	ND		50.0	34.8		ug/L		70	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	33.4		ug/L		67	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	32.9		ug/L		66	39 - 148
1,1,1-Trichloroethane	ND		50.0	40.9		ug/L		82	57 - 142
1,1,2-Trichloroethane	ND		50.0	46.5		ug/L		93	66 - 131
Trichloroethene	ND		50.0	44.9		ug/L		90	64 - 136
Trichlorofluoromethane	ND		50.0	43.6		ug/L		87	54 - 156
1,2,3-Trichloropropane	ND		50.0	43.5		ug/L		87	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	37.9		ug/L		76	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	38.7		ug/L		77	52 - 135
Vinyl acetate	ND		100	74.8		ug/L		75	26 - 160
Vinyl chloride	ND		50.0	39.0		ug/L		78	46 - 152
Xylenes, Total	ND		100	86.9		ug/L		87	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130758-A-9 MSD
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	163		ug/L		82	43 - 160	2	30
Acrolein	ND		500	466		ug/L		93	38 - 160	2	31
Acrylonitrile	ND		500	435		ug/L		87	62 - 149	1	30
Benzene	0.96	J	50.0	48.6		ug/L		95	56 - 142	4	30
Bromobenzene	ND		50.0	39.2		ug/L		78	59 - 136	1	30
Bromochloromethane	ND		50.0	48.8		ug/L		98	64 - 140	3	30
Bromodichloromethane	ND		50.0	48.1		ug/L		96	59 - 143	4	30
Bromoform	ND		50.0	45.9		ug/L		92	50 - 140	19	30
Bromomethane	ND		50.0	42.0		ug/L		84	10 - 160	3	50
2-Butanone (MEK)	ND		200	172		ug/L		86	55 - 150	3	30
Carbon disulfide	ND		50.0	45.9		ug/L		92	48 - 152	6	30
Carbon tetrachloride	ND		50.0	41.5		ug/L		83	55 - 145	12	30
Chlorobenzene	ND		50.0	42.6		ug/L		85	64 - 130	3	30
Dibromochloromethane	ND		50.0	45.8		ug/L		92	56 - 143	10	30
Chloroethane	ND		50.0	40.3		ug/L		81	50 - 151	4	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	49.8		ug/L		100	60 - 141	1	30
1-Chlorohexane	ND		50.0	37.9		ug/L		76	56 - 136	3	30
Chloromethane	ND		50.0	34.4		ug/L		69	49 - 148	3	31
cis-1,2-Dichloroethene	ND		50.0	44.6		ug/L		89	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	42.2		ug/L		84	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	38.4		ug/L		77	52 - 137	5	30
1,3-Dichlorobenzene	ND		50.0	38.0		ug/L		76	54 - 135	7	30
1,4-Dichlorobenzene	ND		50.0	36.5		ug/L		73	53 - 135	7	30
Dichlorodifluoromethane	ND		50.0	43.8		ug/L		88	16 - 160	3	31
1,1-Dichloroethane	ND		50.0	46.9		ug/L		94	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	49.7		ug/L		99	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	44.7		ug/L		89	54 - 147	3	30
1,2-Dichloropropane	ND		50.0	43.5		ug/L		87	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	45.6		ug/L		91	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	32.1		ug/L		64	42 - 144	18	31
1,1-Dichloropropene	ND		50.0	46.8		ug/L		94	65 - 136	2	30
Ethylbenzene	ND		50.0	42.1		ug/L		84	58 - 131	3	30
Ethyl methacrylate	ND		50.0	42.0		ug/L		84	64 - 130	5	30
Hexachlorobutadiene	ND		50.0	30.5		ug/L		61	31 - 149	6	36
2-Hexanone	ND		200	152		ug/L		76	65 - 140	1	30
Isopropylbenzene	ND		50.0	41.9		ug/L		84	56 - 133	3	30
Methylene bromide	ND		50.0	48.5		ug/L		97	63 - 138	4	30
Methylene Chloride	ND		50.0	48.5		ug/L		97	60 - 146	5	32
4-Methyl-2-pentanone (MIBK)	ND		200	166		ug/L		83	63 - 146	3	30
Methyl tert-butyl ether	ND		50.0	45.5		ug/L		91	59 - 137	7	30
m-Xylene & p-Xylene	ND		50.0	40.7		ug/L		81	57 - 130	6	30
Naphthalene	ND		50.0	36.8		ug/L		74	25 - 160	6	30
n-Butylbenzene	ND		50.0	31.5		ug/L		63	41 - 142	11	31
N-Propylbenzene	ND		50.0	36.4		ug/L		73	51 - 138	3	30
o-Chlorotoluene	ND		50.0	40.0		ug/L		80	53 - 134	3	30
o-Xylene	ND		50.0	41.9		ug/L		84	61 - 130	4	30
p-Chlorotoluene	ND		50.0	36.2		ug/L		72	54 - 133	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130758-A-9 MSD
Matrix: Water
Analysis Batch: 333626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	35.8		ug/L		72	48 - 139	5	30
sec-Butylbenzene	ND		50.0	36.2		ug/L		72	50 - 138	3	30
Styrene	ND		50.0	38.9		ug/L		78	58 - 131	8	30
tert-Butylbenzene	ND		50.0	39.6		ug/L		79	54 - 146	16	30
1,1,1,2-Tetrachloroethane	ND		50.0	41.1		ug/L		82	59 - 137	7	30
1,1,2,2-Tetrachloroethane	ND		50.0	42.1		ug/L		84	66 - 135	5	30
Tetrachloroethene	ND		50.0	42.9		ug/L		86	52 - 133	0	30
Toluene	ND		50.0	43.7		ug/L		87	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	46.1		ug/L		92	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	37.7		ug/L		75	53 - 133	8	30
1,2,3-Trichlorobenzene	ND		50.0	32.6		ug/L		65	43 - 145	2	30
1,2,4-Trichlorobenzene	ND		50.0	31.2		ug/L		62	39 - 148	5	30
1,1,1-Trichloroethane	ND		50.0	44.6		ug/L		89	57 - 142	9	30
1,1,2-Trichloroethane	ND		50.0	45.5		ug/L		91	66 - 131	2	30
Trichloroethene	ND		50.0	46.8		ug/L		94	64 - 136	4	30
Trichlorofluoromethane	ND		50.0	41.4		ug/L		83	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	46.0		ug/L		92	65 - 133	6	30
1,2,4-Trimethylbenzene	ND		50.0	36.7		ug/L		73	50 - 139	3	30
1,3,5-Trimethylbenzene	ND		50.0	37.2		ug/L		74	52 - 135	4	30
Vinyl acetate	ND		100	74.7		ug/L		75	26 - 160	0	33
Vinyl chloride	ND		50.0	37.5		ug/L		75	46 - 152	4	30
Xylenes, Total	ND		100	82.5		ug/L		83	59 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 400-333813/4
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			12/06/16 11:56	1
Acrolein	ND		20	10	ug/L			12/06/16 11:56	1
Acrylonitrile	ND		10	2.8	ug/L			12/06/16 11:56	1
Benzene	ND		1.0	0.38	ug/L			12/06/16 11:56	1
Bromobenzene	ND		1.0	0.54	ug/L			12/06/16 11:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			12/06/16 11:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Bromoform	ND		5.0	0.71	ug/L			12/06/16 11:56	1
Bromomethane	ND		1.0	0.98	ug/L			12/06/16 11:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			12/06/16 11:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Chlorobenzene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Dibromochloromethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Chloroethane	ND		1.0	0.76	ug/L			12/06/16 11:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-333813/4
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			12/06/16 11:56	1
Chloroform	ND		1.0	0.60	ug/L			12/06/16 11:56	1
1-Chlorohexane	ND		1.0	0.70	ug/L			12/06/16 11:56	1
Chloromethane	ND		1.0	0.83	ug/L			12/06/16 11:56	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/06/16 11:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			12/06/16 11:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			12/06/16 11:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			12/06/16 11:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			12/06/16 11:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			12/06/16 11:56	1
2-Hexanone	ND		25	3.1	ug/L			12/06/16 11:56	1
Isopropylbenzene	ND		1.0	0.53	ug/L			12/06/16 11:56	1
Methylene bromide	ND		5.0	0.59	ug/L			12/06/16 11:56	1
Methylene Chloride	ND		5.0	3.0	ug/L			12/06/16 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			12/06/16 11:56	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			12/06/16 11:56	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			12/06/16 11:56	1
Naphthalene	ND		1.0	1.0	ug/L			12/06/16 11:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			12/06/16 11:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			12/06/16 11:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			12/06/16 11:56	1
o-Xylene	ND		5.0	0.60	ug/L			12/06/16 11:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			12/06/16 11:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			12/06/16 11:56	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			12/06/16 11:56	1
Styrene	ND		1.0	1.0	ug/L			12/06/16 11:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			12/06/16 11:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			12/06/16 11:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Tetrachloroethene	ND		1.0	0.58	ug/L			12/06/16 11:56	1
Toluene	ND		1.0	0.70	ug/L			12/06/16 11:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			12/06/16 11:56	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			12/06/16 11:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			12/06/16 11:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			12/06/16 11:56	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			12/06/16 11:56	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			12/06/16 11:56	1
Trichloroethene	ND		1.0	0.50	ug/L			12/06/16 11:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-333813/4
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.52	ug/L			12/06/16 11:56	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			12/06/16 11:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			12/06/16 11:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			12/06/16 11:56	1
Vinyl acetate	ND		25	2.0	ug/L			12/06/16 11:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			12/06/16 11:56	1
Xylenes, Total	ND		10	1.6	ug/L			12/06/16 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*78 - 118*		*12/06/16 11:56*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*12/06/16 11:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/06/16 11:56*	*1*

Lab Sample ID: LCS 400-333813/1002
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	216		ug/L		108	43 - 160
Acrolein	500	510		ug/L		102	38 - 160
Acrylonitrile	500	503		ug/L		101	64 - 142
Benzene	50.0	52.1		ug/L		104	70 - 130
Bromobenzene	50.0	46.1		ug/L		92	70 - 132
Bromochloromethane	50.0	54.5		ug/L		109	70 - 130
Bromodichloromethane	50.0	52.9		ug/L		106	67 - 133
Bromoform	50.0	47.2		ug/L		94	57 - 140
Bromomethane	50.0	51.6		ug/L		103	10 - 160
2-Butanone (MEK)	200	198		ug/L		99	61 - 145
Carbon disulfide	50.0	50.5		ug/L		101	61 - 137
Carbon tetrachloride	50.0	46.2		ug/L		92	61 - 137
Chlorobenzene	50.0	51.9		ug/L		104	70 - 130
Dibromochloromethane	50.0	49.9		ug/L		100	67 - 135
Chloroethane	50.0	52.5		ug/L		105	55 - 141
2-Chloroethyl vinyl ether	50.0	56.6		ug/L		113	10 - 160
Chloroform	50.0	55.7		ug/L		111	69 - 130
1-Chlorohexane	50.0	48.4		ug/L		97	69 - 130
Chloromethane	50.0	41.2		ug/L		82	58 - 137
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	68 - 130
cis-1,3-Dichloropropene	50.0	46.0		ug/L		92	69 - 132
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	67 - 130
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	50.4		ug/L		101	41 - 146
1,1-Dichloroethane	50.0	52.1		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	53.9		ug/L		108	69 - 130
1,1-Dichloroethene	50.0	50.0		ug/L		100	63 - 134
1,2-Dichloropropane	50.0	48.6		ug/L		97	70 - 130
1,3-Dichloropropane	50.0	50.4		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-333813/1002
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	30.8		ug/L		62	52 - 135
1,1-Dichloropropene	50.0	54.1		ug/L		108	70 - 130
Ethylbenzene	50.0	52.2		ug/L		104	70 - 130
Ethyl methacrylate	50.0	41.2		ug/L		82	68 - 130
Hexachlorobutadiene	50.0	46.4		ug/L		93	53 - 140
2-Hexanone	200	179		ug/L		90	65 - 137
Isopropylbenzene	50.0	54.6		ug/L		109	70 - 130
Methylene bromide	50.0	53.6		ug/L		107	70 - 130
Methylene Chloride	50.0	54.4		ug/L		109	66 - 135
4-Methyl-2-pentanone (MIBK)	200	183		ug/L		92	69 - 138
Methyl tert-butyl ether	50.0	45.6		ug/L		91	66 - 130
m-Xylene & p-Xylene	50.0	51.9		ug/L		104	70 - 130
Naphthalene	50.0	42.0		ug/L		84	47 - 149
n-Butylbenzene	50.0	45.3		ug/L		91	67 - 130
N-Propylbenzene	50.0	46.0		ug/L		92	70 - 130
o-Chlorotoluene	50.0	46.4		ug/L		93	70 - 130
o-Xylene	50.0	51.1		ug/L		102	70 - 130
p-Chlorotoluene	50.0	46.6		ug/L		93	70 - 130
p-Isopropyltoluene	50.0	48.6		ug/L		97	65 - 130
sec-Butylbenzene	50.0	47.3		ug/L		95	66 - 130
Styrene	50.0	49.5		ug/L		99	70 - 130
tert-Butylbenzene	50.0	50.2		ug/L		100	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.2		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/L		87	70 - 131
Tetrachloroethene	50.0	52.3		ug/L		105	65 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	39.7		ug/L		79	63 - 130
1,2,3-Trichlorobenzene	50.0	41.6		ug/L		83	60 - 138
1,2,4-Trichlorobenzene	50.0	42.0		ug/L		84	60 - 140
1,1,1-Trichloroethane	50.0	49.1		ug/L		98	68 - 130
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
Trichloroethene	50.0	54.2		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	52.3		ug/L		105	65 - 138
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	50.0	46.6		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	50.0	45.4		ug/L		91	69 - 130
Vinyl acetate	100	83.2		ug/L		83	26 - 160
Vinyl chloride	50.0	46.8		ug/L		94	59 - 136
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130786-B-1 MS
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	11	J	200	217		ug/L		103	43 - 160
Acrolein	ND		500	544		ug/L		109	38 - 160
Acrylonitrile	ND		500	535		ug/L		107	62 - 149
Benzene	ND		50.0	49.1		ug/L		98	56 - 142
Bromobenzene	ND		50.0	50.2		ug/L		100	59 - 136
Bromochloromethane	ND		50.0	52.9		ug/L		106	64 - 140
Bromodichloromethane	ND		50.0	56.2		ug/L		112	59 - 143
Bromoform	ND	F1	50.0	72.2	F1	ug/L		144	50 - 140
Bromomethane	ND		50.0	50.2		ug/L		100	10 - 160
2-Butanone (MEK)	ND		200	224		ug/L		112	55 - 150
Carbon disulfide	ND		50.0	49.8		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	47.8		ug/L		96	55 - 145
Chlorobenzene	ND		50.0	50.2		ug/L		100	64 - 130
Dibromochloromethane	ND		50.0	61.1		ug/L		122	56 - 143
Chloroethane	ND		50.0	47.0		ug/L		94	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	53.0		ug/L		106	60 - 141
1-Chlorohexane	ND		50.0	45.4		ug/L		91	56 - 136
Chloromethane	ND		50.0	42.0		ug/L		84	49 - 148
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143
cis-1,3-Dichloropropene	ND		50.0	51.9		ug/L		104	57 - 140
1,2-Dichlorobenzene	ND		50.0	49.0		ug/L		98	52 - 137
1,3-Dichlorobenzene	ND		50.0	49.2		ug/L		98	54 - 135
1,4-Dichlorobenzene	ND		50.0	48.4		ug/L		97	53 - 135
Dichlorodifluoromethane	ND		50.0	50.7		ug/L		101	16 - 160
1,1-Dichloroethane	ND		50.0	49.8		ug/L		100	61 - 144
1,2-Dichloroethane	3.6		50.0	53.0		ug/L		99	60 - 141
1,1-Dichloroethene	ND		50.0	49.1		ug/L		98	54 - 147
1,2-Dichloropropane	ND		50.0	44.5		ug/L		89	66 - 137
1,3-Dichloropropane	ND		50.0	48.8		ug/L		98	66 - 133
2,2-Dichloropropane	ND		50.0	34.5		ug/L		69	42 - 144
1,1-Dichloropropene	ND		50.0	51.4		ug/L		103	65 - 136
Ethylbenzene	ND		50.0	49.0		ug/L		98	58 - 131
Ethyl methacrylate	ND		50.0	48.0		ug/L		96	64 - 130
Hexachlorobutadiene	ND		50.0	53.5		ug/L		107	31 - 149
2-Hexanone	ND		200	195		ug/L		98	65 - 140
Isopropylbenzene	ND		50.0	51.2		ug/L		102	56 - 133
Methylene bromide	ND		50.0	51.4		ug/L		103	63 - 138
Methylene Chloride	ND		50.0	51.7		ug/L		103	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	48.0		ug/L		96	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.4		ug/L		97	57 - 130
Naphthalene	ND		50.0	52.5		ug/L		105	25 - 160
n-Butylbenzene	ND		50.0	44.9		ug/L		90	41 - 142
N-Propylbenzene	ND		50.0	45.3		ug/L		91	51 - 138
o-Chlorotoluene	ND		50.0	43.5		ug/L		87	53 - 134
o-Xylene	ND		50.0	47.9		ug/L		96	61 - 130
p-Chlorotoluene	ND		50.0	45.0		ug/L		90	54 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130786-B-1 MS
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	ND		50.0	47.8		ug/L		96	48 - 139
sec-Butylbenzene	ND		50.0	46.4		ug/L		93	50 - 138
Styrene	ND		50.0	46.2		ug/L		92	58 - 131
tert-Butylbenzene	ND		50.0	49.2		ug/L		98	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	55.3		ug/L		111	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	49.1		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	52.2		ug/L		104	52 - 133
Toluene	ND		50.0	47.8		ug/L		96	65 - 130
trans-1,2-Dichloroethene	ND		50.0	51.2		ug/L		102	61 - 143
trans-1,3-Dichloropropene	ND		50.0	49.1		ug/L		98	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	50.3		ug/L		101	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	49.0		ug/L		98	39 - 148
1,1,1-Trichloroethane	ND		50.0	49.4		ug/L		99	57 - 142
1,1,2-Trichloroethane	ND		50.0	50.3		ug/L		101	66 - 131
Trichloroethene	ND		50.0	53.6		ug/L		107	64 - 136
Trichlorofluoromethane	ND		50.0	49.8		ug/L		100	54 - 156
1,2,3-Trichloropropane	ND		50.0	51.3		ug/L		103	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	45.5		ug/L		91	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	45.3		ug/L		91	52 - 135
Vinyl acetate	ND		100	96.1		ug/L		96	26 - 160
Vinyl chloride	ND		50.0	43.4		ug/L		87	46 - 152
Xylenes, Total	ND		100	96.4		ug/L		96	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*109*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 400-130786-B-1 MSD
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	11	J	200	200		ug/L		95	43 - 160	8	30
Acrolein	ND		500	525		ug/L		105	38 - 160	4	31
Acrylonitrile	ND		500	503		ug/L		101	62 - 149	6	30
Benzene	ND		50.0	53.5		ug/L		107	56 - 142	9	30
Bromobenzene	ND		50.0	52.9		ug/L		106	59 - 136	5	30
Bromochloromethane	ND		50.0	57.6		ug/L		115	64 - 140	8	30
Bromodichloromethane	ND		50.0	60.5		ug/L		121	59 - 143	7	30
Bromoform	ND	F1	50.0	74.7	F1	ug/L		149	50 - 140	3	30
Bromomethane	ND		50.0	55.5		ug/L		111	10 - 160	10	50
2-Butanone (MEK)	ND		200	207		ug/L		103	55 - 150	8	30
Carbon disulfide	ND		50.0	54.3		ug/L		109	48 - 152	9	30
Carbon tetrachloride	ND		50.0	58.7		ug/L		117	55 - 145	20	30
Chlorobenzene	ND		50.0	52.6		ug/L		105	64 - 130	5	30
Dibromochloromethane	ND		50.0	61.1		ug/L		122	56 - 143	0	30
Chloroethane	ND		50.0	50.3		ug/L		101	50 - 151	7	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130786-B-1 MSD
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	57.0		ug/L		114	60 - 141	7	30
1-Chlorohexane	ND		50.0	49.0		ug/L		98	56 - 136	8	30
Chloromethane	ND		50.0	46.9		ug/L		94	49 - 148	11	31
cis-1,2-Dichloroethene	ND		50.0	51.9		ug/L		104	59 - 143	8	30
cis-1,3-Dichloropropene	ND		50.0	54.4		ug/L		109	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	51.1		ug/L		102	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	51.5		ug/L		103	54 - 135	5	30
1,4-Dichlorobenzene	ND		50.0	50.8		ug/L		102	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	55.3		ug/L		111	16 - 160	9	31
1,1-Dichloroethane	ND		50.0	54.1		ug/L		108	61 - 144	8	30
1,2-Dichloroethane	3.6		50.0	55.6		ug/L		104	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	55.2		ug/L		110	54 - 147	12	30
1,2-Dichloropropane	ND		50.0	49.7		ug/L		99	66 - 137	11	30
1,3-Dichloropropane	ND		50.0	48.0		ug/L		96	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	44.7		ug/L		89	42 - 144	26	31
1,1-Dichloropropene	ND		50.0	56.0		ug/L		112	65 - 136	9	30
Ethylbenzene	ND		50.0	51.2		ug/L		102	58 - 131	4	30
Ethyl methacrylate	ND		50.0	46.3		ug/L		93	64 - 130	4	30
Hexachlorobutadiene	ND		50.0	58.6		ug/L		117	31 - 149	9	36
2-Hexanone	ND		200	171		ug/L		86	65 - 140	13	30
Isopropylbenzene	ND		50.0	53.1		ug/L		106	56 - 133	4	30
Methylene bromide	ND		50.0	54.3		ug/L		109	63 - 138	5	30
Methylene Chloride	ND		50.0	56.2		ug/L		112	60 - 146	8	32
4-Methyl-2-pentanone (MIBK)	ND		200	191		ug/L		96	63 - 146	6	30
Methyl tert-butyl ether	ND		50.0	49.6		ug/L		99	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	49.6		ug/L		99	57 - 130	2	30
Naphthalene	ND		50.0	51.6		ug/L		103	25 - 160	2	30
n-Butylbenzene	ND		50.0	48.7		ug/L		97	41 - 142	8	31
N-Propylbenzene	ND		50.0	49.9		ug/L		100	51 - 138	10	30
o-Chlorotoluene	ND		50.0	48.2		ug/L		96	53 - 134	10	30
o-Xylene	ND		50.0	49.6		ug/L		99	61 - 130	3	30
p-Chlorotoluene	ND		50.0	48.4		ug/L		97	54 - 133	7	30
p-Isopropyltoluene	ND		50.0	52.0		ug/L		104	48 - 139	8	30
sec-Butylbenzene	ND		50.0	50.8		ug/L		102	50 - 138	9	30
Styrene	ND		50.0	46.5		ug/L		93	58 - 131	1	30
tert-Butylbenzene	ND		50.0	53.2		ug/L		106	54 - 146	8	30
1,1,1,2-Tetrachloroethane	ND		50.0	57.5		ug/L		115	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	48.2		ug/L		96	66 - 135	2	30
Tetrachloroethene	ND		50.0	54.4		ug/L		109	52 - 133	4	30
Toluene	ND		50.0	49.5		ug/L		99	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	55.9		ug/L		112	61 - 143	9	30
trans-1,3-Dichloropropene	ND		50.0	48.2		ug/L		96	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	52.4		ug/L		105	43 - 145	4	30
1,2,4-Trichlorobenzene	ND		50.0	50.3		ug/L		101	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	55.9		ug/L		112	57 - 142	12	30
1,1,2-Trichloroethane	ND		50.0	48.9		ug/L		98	66 - 131	3	30
Trichloroethene	ND		50.0	59.7		ug/L		119	64 - 136	11	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-130786-B-1 MSD
Matrix: Water
Analysis Batch: 333813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		50.0	53.9		ug/L		108	54 - 156	8	30
1,2,3-Trichloropropane	ND		50.0	48.6		ug/L		97	65 - 133	6	30
1,2,4-Trimethylbenzene	ND		50.0	49.8		ug/L		100	50 - 139	9	30
1,3,5-Trimethylbenzene	ND		50.0	49.5		ug/L		99	52 - 135	9	30
Vinyl acetate	ND		100	108		ug/L		108	26 - 160	12	33
Vinyl chloride	ND		50.0	48.5		ug/L		97	46 - 152	11	30
Xylenes, Total	ND		100	99.2		ug/L		99	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*112*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (Lab Vendor # 1384589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 11/29/16
PAGE: 1 of 1

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Josh Clark + Megan Kamick

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

E-MAIL To Contact: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044

NON-UNIT COST 60477387 - 1.03.004

☐ LA - RWQCB REPORT FORMAT

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

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports
* Please provide sample receipt upon login
* Report Chloroform results from undiluted run
* 5 Day TAT

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

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260
	MW21-ROX-112916-EB	11/29/2016	0935	WATER	2					2	X
	MW21-ROX-112916	11/29/2016	1010	WATER	2					2	X
	MW21-ROX-112916-DUP	11/29/2016	1010	WATER	2					2	X
	TB-ROX-112916-8260	11/29/2016	0000	WATER	2					2	X

400-130674 COC

Relinquished by: (Signature) Megan Kamick — Received by: (Signature) — Date: 11/29/16 — Time:

Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

Relinquished by: (Signature) — Received by: (Signature) — Date — Time

Ref: S400-58727
Dep:
Date: 26Sep16
Wgt: 10.00 LBS
DV: 0.00
SVCS: PRIORITY OVERNIGHT
TRCK: 7013 8364 6112

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Version: 14Dec15

Custody Seals: AECOM
5678
6789

C Clarke 11/30/16 0845
5.3°C IR5

Page 34 of 36

12/8/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-130674-1

Login Number: 130674
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3°C - IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-130674-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Appendix B.
Groundwater Sampling Data Sheets

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / David Haxel

DATE: 13 Oct. 2016 WEATHER: Cloudy 55°

MONITORING WELL ID: MW-1 SAMPLE ID: MW1-ROX-101316

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 59.13 ft
Depth to Water (btoc): 38.79 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 46.80 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 20.34 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 53.80 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1042	38.79	CLEAR	NONE	6.97	1.419	-29	1.06	94.97	17.59
600	1044	"	↓	↓	6.91	1.441	-27	0.57	70.07	17.81
1200	1046	38.76			6.89	1.456	-32	0.35	45.53	18.02
1800	1048	↓			6.88	1.461	-32	0.18	26.43	18.23
2400	1050				6.87	1.461	-29	0.11	25.59	18.33
3000	1052	38.77			6.87	1.460	-30	0.10	23.37	18.30

SMC

Start Time: 1042 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1052 Average Purge Rate (mL/min): 300 Date Calibrated: 13 Oct. 2016

SAMPLING DATA

Sample Date: 13 Oct. 2016 Sample Time: 1100 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ☒ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / Dave Hoover

DATE: 13 Oct. 2016 WEATHER: Sunny 62°

MONITORING WELL ID: MW-2 SAMPLE ID: MW2-ROX-101316

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 60.20 ft
Depth to Water (btoc): 40.10 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 49.87 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 54.87 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 142 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-5% +/-20 mV +/-0.2 mg/L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1317	40.10	clear	strong	7.03	1.522	-175	0.23	23.01	20.41
600	1319	40.12			7.01	1.523	-189	0.09	21.98	20.83
1200	1321	"			7.02	1.529	-193	0.03	24.14	20.74
1800	1323	40.13			7.04	1.539	-207	-0.02	26.36	20.45
2400	1325	↓	↓	↓	7.06	1.544	-217	-0.01	25.36	20.30
3000	1327				7.07	1.547	-224	-0.02	33.52	20.39
3600	1329				7.08	1.548	-230	-0.02	12.94	20.44
4200	1331				7.09	1.549	-236	-0.01	11.28	20.46

13 Oct. 2016

Start Time: 1317 Elapsed Time (min): 14 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1331 Average Purge Rate (mL/min): 300 Date Calibrated: 13 Oct. 2016

SAMPLING DATA

Sample Date: 13 Oct. 2016 Sample Time: 1335 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Josh Clark / Dave Haxton

DATE: 7 Oct. 2016 **WEATHER:** Sunny, Windy 78°

MONITORING WELL ID: MW-3 **SAMPLE ID:** MW3-ROX-100716

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.00 ft
Depth to Water (btoc): 25.79 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 34.67 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 19.21 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 39.67 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1427	25.78	clear	NONE	7.03	1.599	-135	0.52	236.4	20.94
600	1429	↓	↓	↓	7.01	1.612	-139	0.26	138.5	20.77
1200	1431	↓	↓	↓	7.01	1.607	-141	0.17	4.970	20.58
1800	1433	↓	↓	↓	7.02	1.598	-142	0.08	4.736	20.33
2400	1435	↓	↓	↓	7.02	1.588	-144	0.05	9.239	20.22
3000	1437	25.79	↓	↓	7.03	1.577	-144	0.03	22.67	20.12
3600	1439	↓	↓	↓	7.03	1.571	-145	0.03	63.68	20.03
4200	1441	↓	↓	↓	7.03	1.568	-145	0.02	22.79	19.95
4800	1443	↓	↓	↓	7.03	1.572	-145	0.01	24.51	19.93
5400	1445	↓	↓	↓	7.03	1.571	-145	0.00	37.09	19.96
						IMC				

Start Time: 1427
Stop Time: 1445
Elapsed Time (min): 18
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 - R27278
Date Calibrated: 7 Oct. 2016

SAMPLING DATA

Sample Date: 7 Oct. 2016
Sample Time: 1455
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: NONE
VOA Vials, No Headspace ☒ Initials: JDC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 5400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** L.Rathnaw/J. Clark

DATE: 10/16/16 **WEATHER:** Cloudy | 70°F

MONITORING WELL ID: MW-4 **SAMPLE ID:** MW4-ROX-100616

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 55.39 ft
Depth to Water (btoc): 37.18 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 45.06 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 18.21 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = 50.06 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = N/A ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 55.8 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	10:16	37.16	clear	none	6.87	1455	-141	0.24	280.0	19.91
400	10:17	37.16	clear	none	6.90	1451	-141	0.19	197.1	19.73
1200	10:14	37.16	clear	none	6.91	1447	-141	0.116	188.0	19.103
1600	10:20	↓	clear	none	6.92	1.436	-141	0.11	34.39	19.52
2400	10:22		clear	slight	6.93	1.431	-141	0.08	25.04	19.40
3200	10:24		clear	slight	6.94	1.428	-142	0.06	20.61	19.30

Start Time: 10:16 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 - RT7278

Stop Time: 10:24 Average Purge Rate (mL/min): 400 Date Calibrated: 10/6/16

SAMPLING DATA

Sample Date: 10/16/16 Sample Time: 1030 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 400 QA/QC Samples: none

VOA Vials, No Headspace ☒ Initials: LAR

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Josh Clark / Dave Haxel

DATE: 10 Oct. 2016 **WEATHER:** Sunny 61°

MONITORING WELL ID: MW-5 **SAMPLE ID:** MW5-ROX-10102016

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 44.30 ft
Depth to Water (btoc): 25.47 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 33.97 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 18.83 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 38.97 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-5% +/-20 mV +/-0.2 mg/L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0840	25.47	clear	NONE	6.80	1.348	-139	0.12	85.83	17.99
600	0842	"			6.82	1.351	-142	0.13	113.2	18.33
1200	0844	25.48			6.84	1.350	-144	0.10	155.3	18.66
1800	0846	"			6.85	1.348	-144	0.05	42.27	18.79
2400	0848	25.50			6.86	1.346	-144	0.03	38.74	18.93
3000	0850	↓			6.86	1.343	-144	0.03	63.03	19.03
3600	0852				6.86	1.342	-143	0.03	8.715	19.10
4200	0854	25.48			6.87	1.341	-143	0.02	15.37	19.15
4800	0856	"			6.87	1.341	-143	0.03	11.01	19.18

JMC

Start Time: 0840 Elapsed Time (min): 16 Water Quality Meter ID & SN: TROLL 9500 -- R27278

Stop Time: 0856 Average Purge Rate (mL/min): 300 Date Calibrated: 10 Oct. 2016

SAMPLING DATA

Sample Date: 10 Oct. 2016 Sample Time: 0905 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace: ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Haxel

DATE: 10/11/16 **WEATHER:** 67° Sunny

MONITORING WELL ID: MW-6A **SAMPLE ID:** MW6A - ROX - 101116

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.16 ft
Depth to Water (btoc): 27.51 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 34.83 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 17.65 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 39.83 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0942	27.51	clear	slight	6.87	1.153	-115	0.33	4.649	19.28
600	0944	↓	↓	↓	6.86	1.152	-118	0.20	6.842	19.36
1200	0946	↓	↓	↓	6.86	1.150	-120	0.14	7.219	19.42
1800	0948	27.51	↓	↓	6.86	1.148	-121	0.09	11.27	19.45
2400	0950	↓	↓	↓	6.87	1.147	-122	0.08	7.926	19.44

JMC

Start Time: 0942 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 -- R27278

Stop Time: 0956 Average Purge Rate (mL/min): 300 Date Calibrated: 10/11/16

SAMPLING DATA

Sample Date: 10/11/16 Sample Time: 1000 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / D Haxel

DATE: 11 Oct. 2016 WEATHER: Sunny 63°

MONITORING WELL ID: MW-6B SAMPLE ID: MW6B-ROX-101116

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 69.38 ft
Depth to Water (btoc): 27.56 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 64.05 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 41.82 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = ~~70.06~~ JC ft btoc 66.55

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever Is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0858	27.56	clear	NONE	6.84	0.8266	-97	0.50	6.299	19.39
600	0900	"			6.91	0.8308	-102	0.37	9.421	19.40
1200	0902	"			6.95	0.8342	-105	0.22	5.754	19.63
1800	0904	27.56			6.98	0.8359	-108	0.16	5.118	19.81
2400	0906	↓			7.00	0.8382	-109	0.12	4.459	19.83
3000	0908				7.02	0.8399	-111	0.11	3.869	19.74

JMC

Start Time: 0858 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 0908 Average Purge Rate (mL/min): 300 Date Calibrated: 11 Oct. 2016

SAMPLING DATA

Sample Date: 11 Oct. 2016 Sample Time: 0915 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace ☒ Initials: JML

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Haxel

DATE: 10/10/16 **WEATHER:** 75° Cloudy

MONITORING WELL ID: MW-6C **SAMPLE ID:** MW6C - ROX - 101016

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 90.28 ft
Depth to Water (btoc): 27.37 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 84.95 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 62.91 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = ~~87.45~~ ft btoc 87.45

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1339	27.37	clear	none	7.32	0.9755	-127	0.77	13.34	20.87
600	1341	↓			7.22	0.9933	-133	0.41	9.117	20.55
1200	1343	27.38			7.18	0.9999	-137	0.28	5.980	20.34
1800	1345				7.16	1.004	-140	0.17	4.574	20.19
2400	1347				7.16	1.006	-142	0.12	2.915	20.22
3000	1349	↓	↓	↓	7.15	1.008	-144	0.10	1.971	20.17

JMC

Start Time: 1339 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1349 Average Purge Rate (mL/min): 300 Date Calibrated: 10/10/16

SAMPLING DATA

Sample Date: 10/10/16 Sample Time: 1355 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / Dave Hoover

DATE: 10 Oct. 2016 WEATHER: Sunny 65°

MONITORING WELL ID: MW-6D SAMPLE ID: MW6D-ROX-101016 / MW6D-ROX-101016-DUP

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 110.05 ft
Depth to Water (btoc): 27.26 ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): 104.72 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 82.79 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = ~~N/A~~ 105.22 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (STABLE: over 3 readings; +/- 0.2)	Specific Cond. (mS/cm) (+/-5%)	ORP (mV) (+/-20 mV)	DO (mg/L) (+/-0.2 mg/L or +/-10%)	Turbidity (NTUs) Monitor Turb Readings (<50)	Temp (°C) Monitor Temp
0	1102	27.28	blackish	NONE	7.18	1.216	-137	0.55	505.9	19.87
600	1004	↓	↓	↓	7.17	1.221	-141	0.24	461.3	19.66
1200	1106	↓	↓	↓	7.17	1.218	-144	0.14	353.5	19.58
1800	1108	↓	↓	↓	7.17	1.218	-146	0.10	278.0	19.53
2400	1110	27.29	↓	↓	7.17	1.222	-148	0.09	188.4	19.53
3000	1112	↓	↓	↓	7.17	1.227	-147	0.08	175.3	19.50
3600	1114	↓	↓	↓	7.17	1.233	-148	0.05	98.56	19.46
4200	1116	↓	↓	↓	7.16	1.237	-148	0.05	81.31	19.40
4800	1118	27.27	↓	↓	7.16	1.238	-149	0.04	65.32	19.36
5400	1120	↓	↓	↓	7.16	1.240	-150	0.01	41.31	19.39
6300	1123	↓	↓	↓	7.16	1.240	-150	-0.00	41.70	19.43
					7.16	1.241	-151	0.01	36.29	19.46
					JMC					

Start Time: 1102 Elapsed Time (min): 21 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1123 Average Purge Rate (mL/min): 300 Date Calibrated: 10 Oct. 2016

SAMPLING DATA

Sample Date: 10 Oct. 2016 Sample Time: 1130 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: Duplicate

VOA Vials, No Headspace ☒ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 6300 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW | PROJECT NUMBER: 60477387 - 1.03.004 | FIELD PERSONNEL: Josh Clark / Dave Hayes

DATE: 6 Oct. 2016 | WEATHER: P. Sunny 82°

MONITORING WELL ID: MW-7 | SAMPLE ID: MW7-ROX-100616 / MW7-ROX-100616-DUP

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 52.92 ft
Depth to Water (btoc): 39.24 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 42.92 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 13.68 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 47.92 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: 4,214.00 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1442	39.25	clear	None	6.79	1.519	-83	0.50	133.8	21.37
300	1443	↓	↓	↓	6.74	1.518	-84	0.30	197.7	21.21
900	1445				6.74	1.516	-85	0.23	249.9	20.95
1500	1447				6.74	1.503	-86	0.19	170.6	20.83
2100	1449				6.75	1.487	-87	0.06	36.02	20.84
2700	1451				6.76	1.461	-89	0.15	30.76	20.78
3300	1453				6.77	1.440	-91	0.14	28.93	20.73
3900	1455				6.78	1.422	-92	0.13	24.73	20.75

Soil Stained
6 Oct. 2016

Start Time: 1442 | Elapsed Time (min): 15 | Water Quality Meter ID & SN: TROLL 9500 - B27278
Stop Time: 1457 | Average Purge Rate (mL/min): 300 | Date Calibrated: 6 Oct. 2016

SAMPLING DATA

Sample Date: 6 Oct. 2016 | Sample Time: 1505 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: Duplicate
VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3900 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: J. Clark / D Haxeck

DATE: 10/6/16 WEATHER: Sunny 84°

MONITORING WELL ID: MW-8 SAMPLE ID: MW8-ROX-100616

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.60 ft
Depth to Water (btoc): 29.99 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 33.60 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 13.61 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 38.60 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.5 ppm
Wellbore PID/FID Reading: 4263 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time (1329 pd)	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
	STABLE: (over 3 readings)				+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	~~1330~~ 1329	30.01	clear	strong hydrocarbon	6.84	1.752	-108	0.70	99.29	21.75
600	1331				6.83	1.758	-108	0.16	113.4	21.70
1200	1333				6.83	1.747	-109	0.13	215.0	21.56
1800	1335				6.82	1.748	-104	0.10	154.4	21.53
2400	1337				~~6.82~~ 6.82	1.745	-108	0.11	32.12	21.50
3000	1339				6.82	1.743	-107	0.08	33.47	21.39
3600	1341				6.81	1.743	-107	0.08	32.74	21.28
4200	1343				6.81	1.743	-107	0.07	31.41	21.24

D. Haxeck
6 Oct 2016

Start Time: 1329 Elapsed Time (min): 14 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1343 Average Purge Rate (mL/min): 300 Date Calibrated: 6 October 2016

SAMPLING DATA

Sample Date: 6 October 2016 Sample Time: ~~1349~~ 1350 JC Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace ☒ Initials: D.H

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH, ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / D. Hazel

DATE: 13 Oct. 2016 WEATHER: Cloudy 51°

MONITORING WELL ID: MW-9 SAMPLE ID: MW9-ROX-101316

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 56.78 ft
Depth to Water (btoc): 40.39 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 46.45 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 16.39 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 51.45 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0841	40.40	clear	NONE	6.71	1.458	-51	0.90	13.18	16.78
600	0843	↓	↓	↓	6.75 ~~6.77~~	1.465	-59	0.55	14.76	17.08
1200	0845	↓	↓	↓	~~6.75~~ 6.77	1.465	-63	0.33	14.36	17.29
1800	0847	40.40	↓	↓	6.78	1.463	-66	0.20	13.84	17.42
2400	0849	↓	↓	↓	6.79	1.459	-68	0.16	17.98	17.54
3000	0851	↓	↓	↓	6.79	1.455	-69	0.11	14.71	17.62

Start Time: 0841 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 0851 Average Purge Rate (mL/min): 300 Date Calibrated: 13 Oct. 2016

SAMPLING DATA

Sample Date: 13 Oct. 2016 Sample Time: 0900 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ☒ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Hawel

DATE: 10/12/16 **WEATHER:** Cloudy 70°

MONITORING WELL ID: MW-10 **SAMPLE ID:** ~~MW10-101216-FL~~ MW10-ROX-101216

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 54.76 ft
Depth to Water (btoc): 40.27 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 44.43 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 49.43 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 6.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1333	40.27	clear	none	7.06	2.042	-120	0.18	35.05	18.74
600	1335	↓	↓	↓	7.04	2.047	-122	0.16	29.08	18.92
1200	1337				7.03	2.047	-123	0.12	24.07	19.09
1800	1339				7.02	2.046	-124	0.08	22.35	19.23
2400	1341				7.02	2.046	-125	0.07	16.44	19.36

JMC

Start Time: 1333 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 -- R27278

Stop Time: 1341 Average Purge Rate (mL/min): 300 Date Calibrated: 10/12/16

SAMPLING DATA

Sample Date: 10/12/16 Sample Time: 1355 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: JMC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Hake/

DATE: 10/12/16 **WEATHER:** 68° Rain

MONITORING WELL ID: MW-11 **SAMPLE ID:** MW11 - ROX - 101216

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 51.99 ft
Depth to Water (btoc): 37.93 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 41.66 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 14.06 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 46.66 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0940	37.93	clear	none	6.83	1.514	-93	0.42	14.78	17.47
600	0942	37.93	↓	↓	6.83	1.524	-95	0.26	11.81	17.54
1200	0944	↓	↓	↓	6.83	1.528	-96	0.18	10.61	17.63
1800	0946	↓	↓	↓	6.82	1.532	-97	0.15	7.613	17.71
2400	0948	↓	↓	↓	6.82	1.534	-98	0.11	6.205	17.79

JML

Start Time: 0940 **Elapsed Time (min):** 8 **Water Quality Meter ID & SN:** TROLL 9500 - R27278

Stop Time: 0948 **Average Purge Rate (mL/min):** 300 **Date Calibrated:** 10/12/16

SAMPLING DATA

Sample Date: 10/12/16 **Sample Time:** 0955 **Lab Analysis:** VOC, SVOC

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300 **QA/QC Samples:** None

VOA Vials, No Headspace ☒ **Initials:** JML

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / David Hassel

DATE: 11 Oct. 2016 WEATHER: P. Sunny 68°

MONITORING WELL ID: MW-12 SAMPLE ID: MW12-ROX-101116

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 52.25 ft
Depth to Water (btoc): 38.85 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 41.92 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 13.40 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 46.92 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1044	38.85	clear	NONE	7.02	1.226	64	0.46	58.35	18.80
600	1046	38.52			6.99	1.241	71	0.31	76.57	18.87
1200	1048	38.37			6.97	1.253	76	0.20	74.38	18.95
1800	1050	"			6.96	1.266	80	0.15	71.96	19.01
2400	1052	38.36			6.96	1.275	83	0.14	10.14	19.09
3000	1054	↓	↓	↓	6.95	1.284	85	0.10	7.495	19.13
3600	1056				6.95	1.295	87	0.08	5.984	19.17

D.A & J.H
11 Oct. 2016

Start Time: 1044 Elapsed Time (min): 12 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1056 Average Purge Rate (mL/min): 300 Date Calibrated: 11 Oct. 2016

SAMPLING DATA

Sample Date: 11 Oct. 2016 Sample Time: 1100 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace: ☒ Initials: D.A

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Joshua Clark / Dave Haxel

DATE: 10/07/16 **WEATHER:** 70° Sunny

MONITORING WELL ID: MW-13 **SAMPLE ID:** MW13-ROX-100716 / MW13-ROX-100716-EB

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 35.82 ft
Depth to Water (btoc): 25.16 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 25.57 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 10.66 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 30.57 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.9 ppm
Wellbore PID/FID Reading: 54.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1235	~~25.18~~ 25.16	clear	slight	6.83	1.429	-113	0.50	71.49	20.24
600	1237	25.18	↓	↓	6.82	1.434	-116	0.37	56.80	20.21
1200	1239	25.19			6.81	1.437	-118	0.25	48.96	20.20
1800	1241	↓			6.82	1.438	-118	0.20	42.82	20.19
2400	1243				6.82	1.440	-119	0.14	32.70	20.19
3000	1245				6.81	1.441	-119	0.12	26.44	20.22
						SML				

Start Time: 1235
Stop Time: 1245
Elapsed Time (min): 10
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 – RZ7278
Date Calibrated: 7 Oct. 2016

SAMPLING DATA

Sample Date: 7 Oct. 2016
Sample Time: 1250
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: Equipment blank
VOA Vials, No Headspace ☒ Initials: DA

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** M. Miller / J. Peters

DATE: 10/14/16 **WEATHER:** Sunny, 60's

MONITORING WELL ID: MW-14 **SAMPLE ID:** MW14-ROX-101416

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 44.00 ft
Depth to Water (btoc): 29.62 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 33.42 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 14.38 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = 38.42 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = N/A ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 36.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
					STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
600	1021	29.64	Clear	None	6.76	1122	-43	0.41	23.73	19.7
1200	1023	29.64	Clear	None	6.77	1123	-46	0.12	24.21	19.4
1800	1025		Clear	None	6.77	1122	-55	0.05	26.41	19.55
2400	1027	29.64	Clear	None	6.78	1120	-62	0.03	27.64	19.62
3000	1029		Clear	None	6.79	1119	-68	0.02	227.0 *	19.65
3600	1031	29.64	Clear	None	6.79	1118	-73	-0.00	13.86	19.71
~~4200~~	~~1033~~	~~29.64~~	~~Clear~~	~~None~~ MM						

Start Time: 1020 Elapsed Time (min): 11 Water Quality Meter ID & SN: TROLL 9500 – R 27278 27501 MP

Stop Time: 1031 Average Purge Rate (mL/min): 300 Date Calibrated: 10/14/16

SAMPLING DATA

Sample Date: 10/14/16 Sample Time: 1040 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: EB, MS/MSD

VOA Vials, No Headspace ☒ Initials: MM

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Haxel

DATE: 10/11/16 **WEATHER:** 72° Slightly Cloudy

MONITORING WELL ID: MW-16 **SAMPLE ID:** MW16 - ROX - 101116

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 47.31 ft
Depth to Water (btoc): 39.64 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 37.06 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 7.67 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = / ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = 43.47 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1150	39.66	clear	slight	6.91	1.745	-51	0.50	237.6	19.37
600	1152	↓	↓	↓	6.86	1.710	-52	0.36	245.4	19.33
1200	1154	↓	↓	↓	6.84	1.664	-49	0.22	34.13	19.37
1800	1156	↓	↓	↓	6.84	1.609	-46	0.20	27.63	19.44
2400	1158	↓	↓	↓	6.83	1.575	-44	0.17	18.44	19.49
3000	1200	↓	↓	↓	6.83	1.554	-42	0.15	13.19	19.46
3600	1202	↓	↓	↓	6.83	1.540	-41	0.18	10.15	19.49

11 Oct. 2016

Start Time: 1150 Elapsed Time (min): 12 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1202 Average Purge Rate (mL/min): 300 Date Calibrated: 10/11/16

SAMPLING DATA

Sample Date: 10/11/16 Sample Time: 1210 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: None

VOA Vials, No Headspace ☒ Initials: D.H

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** SMF KW

DATE: 10-17-16 **WEATHER:** 70° Sunny

MONITORING WELL ID: MW-22 **SAMPLE ID:** MW22-ROX-101716 and MW22-ROX-101716-DUP

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 48.13 ft
Depth to Water (btoc): 38.17 ft
Depth to LNAPL/DNAPL (btoc): NF ft
Depth to Top of Screen (btoc): 37.88 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.96 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = ____ ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = 43.15 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 58.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0905	—	—	—	—	—	—	—	—	—
900	0908	—	clr	hydrocarb like	6.70	1.590	-106	0.18	68.57	20.77
1500	0910	38.21	clr	—	6.72	1.555	-103	0.09	61.66	20.84
2100	0912	—	clr	—	6.72	1.530	-99	0.08	51.76	20.91
2700	0914	—	clr	—	6.72	1.516	-96	0.04	43.77	20.96
3300	0916	38.21	clr	none	6.75	1.504	-94	0.04	33.72	21.03
3900	0918	↓	clr	—	6.76	1.496	-92	0.04	31.04	21.09
4500	0920	↓	clr	none	6.76	1.492	-91	0.03	21.54	21.13

Samuel Fedor

Start Time: 0905 **Elapsed Time (min):** 15 min **Water Quality Meter ID & SN:** TROLL 9500 - R27278

Stop Time: 0920 **Average Purge Rate (mL/min):** 300/min **Date Calibrated:** 10-17-16

SAMPLING DATA

Sample Date: 17 Oct 2016 **Sample Time:** 0925 **Lab Analysis:** VOC, SVOC

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300ml/min **QA/QC Samples:** DUP

VOA Vials, No Headspace ☒ Initials: SF KW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4500 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / D. Haxel

DATE: 7 Oct. 2016 WEATHER: Sunny 75°

MONITORING WELL ID: MW-23 SAMPLE ID: MW23-ROX-100716 / -MS / -MSD

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 39.27 ft
Depth to Water (btoc): 26.64 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 29.02 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 12.63 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 34.02 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0907	26.66	Murky	slight	6.57	1.263	-88	0.18	413.8	18.66
600	0909	↓	↓	↓	6.61	1.258	-92	0.13	381.8	18.75
1200	0911	↓	↓	↓	6.63	1.258	-94	0.08	159.0	18.87
1800	0913	↓	↓	↓	6.64	1.257	-95	0.05	121.2	18.91
2400	0915	↓	↓	↓	6.64	1.259	-95	0.05	81.38	18.97
3000	0917	↓	↓	↓	6.65	1.261	-95	0.04	59.89	19.04
3600	0919	26.67	↓	↓	6.65	1.261	-95	0.03	39.50	19.13
4200	0921	↓	↓	↓	6.65	1.262	-94	0.04	40.32	19.19
4800	0923	↓	↓	↓	6.65	1.265	-93	0.03	34.01	19.14
						D. Haxel				
						7 Oct. 2016				

Start Time: 0907 Elapsed Time (min): 16 Water Quality Meter ID & SN: TROLL 9500 - R 27278

Stop Time: 0923 Average Purge Rate (mL/min): 300 Date Calibrated: 7 Oct. 2016

SAMPLING DATA

Sample Date: 7 Oct. 2016 Sample Time: 0930 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: Matrix Spike / MS-Dup.

VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / David Hand

DATE: 11 Oct. 2016 WEATHER: Sunny 82°

MONITORING WELL ID: MW-24 SAMPLE ID: MW24-ROX-101116 / MW24-ROX-101116-EB

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 49.14 ft
Depth to Water (btoc): 39.19 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 38.89 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.95 4995 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = / ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = 44.16 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.9 ppm
Wellbore PID/FID Reading: 2.9 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-5% +/-20 mV +/-0.2 mg/L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1358	39.19	clear	NONE	6.99	1.326	76	0.51	49.01	21.33
600	1400	"			6.95	1.323	84	0.34	63.82	20.98
1200	1402	39.20			6.93	1.318	90	0.26	21.74	20.73
1800	1404				6.92	1.318	95	0.24	16.22	20.49
2400	1406				6.92	1.316	100	0.26	11.60	20.35
3000	1408				6.92	1.313	103	0.30	10.10	20.22

JMC

Start Time: 1358 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 - RZ7278

Stop Time: 1408 Average Purge Rate (mL/min): 300 Date Calibrated: 11 Oct. 2016

SAMPLING DATA

Sample Date: 11 Oct. 2016 Sample Time: 1415 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: Equipment Blank

VOA Vials, No Headspace ☑ Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: L.Rathnow, J.Clark

DATE: 10/6/16 WEATHER: Sunny | 75°F

MONITORING WELL ID: MW-25 SAMPLE ID: MW25-ROX-100616

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.84 ft
Depth to Water (btoc): 34.25 ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): 35.59 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.59 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 40.59 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = ____ ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.5 ppm
Wellbore PID/FID Reading: 71.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-5% +/-20 mV +/-0.2 mg/L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1130	34.27	clear	none	6.97	1.215	-140	0.47	77.98	20.18
800	1132		clear	slight	6.97	1.215	-140	0.32	60.0	21.02
1200	1133		clear	slight	6.96	1.216	-141	0.20	52.16	21.07
1600	1135		clear	slight	6.96	1.216	-141	0.17	53.24	21.07
2400	1136		clear	slight	6.96	1.216	-140	0.13	53.85	21.08
3200	1138	34.27	clear	slight	6.96	1.219	-140	0.10	6.034	21.08

JMC

Start Time: 1130 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1138 Average Purge Rate (mL/min): 400 Date Calibrated: 10/6/16

SAMPLING DATA

Sample Date: 10/6/16 Sample Time: 1145 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 400 QA/QCSamples: none

VOA Vials, No Headspace ☒ Initials: YAR

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** J. Clark / D. Haxel

DATE: 10/10/16 **WEATHER:** 65° Sunny

MONITORING WELL ID: MW-26 **SAMPLE ID:** MW26-ROX-101016

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48.40 ft
Depth to Water (btoc): 37.13 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 38.15 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.27 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = 43.15 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = — ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0944	37.13	dirty	none	7.16	1.330	7	1.79	538.1	18.37
600	0946				6.97	1.336	30	0.50	538.0	18.55
1200	0948				6.92	1.338	41	0.35	514.1	18.76
1800	0950				6.91	1.341	49	0.29	530.2	19.00
2400	0952				6.89	1.340	51	0.20	76.74	19.27
3000	0954				6.89	1.340	44	0.14	50.22	19.45
3600	0956				6.88	1.340	15	0.12	40.64	19.57
4200	0958				6.88	1.340	-7	0.11	30.41	19.63
4800	1000				6.88	1.340	-16	0.11	22.44	19.69
5400	1002				6.88	1.340	-22	0.11	18.24	19.72
6000	1004				6.88	1.340	-26	0.11	14.49	19.74
					JMC					

Start Time: 0944 Elapsed Time (min): 20 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1004 Average Purge Rate (mL/min): 300 Date Calibrated: 10/10/16

SAMPLING DATA

Sample Date: 10/10/16 Sample Time: 1010 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: JMC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 6000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / David Haxel

DATE: 12 Oct. 2016 WEATHER: Light rain

MONITORING WELL ID: MW-27 SAMPLE ID: MW27-ROX-101216

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 50.04 ft
Depth to Water (btoc): 38.50 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 39.79 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.54 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 44.79 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = / ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1044	38.70	light brown	NONE	7.11	0.9185	-17	1.19	134.6	17.87
600	1046	38.70			7.04	0.9376	-21	1.01	159.0	17.94
1200	1048	"			7.02	0.9404	-22	0.93	113.1	18.05
1800	1050	38.68			7.01	0.9393	-22	0.93	92.20	18.13
2400	1052	↓			7.01	0.9406	-22	0.89	77.02	18.21
3000	1054				7.00	0.9418	-23	0.89	77.36	18.31
3600	1056	38.64			7.00	0.9460	-23	0.90	60.29	18.40
4200	1058	"			6.99	0.9473	-23	0.90	47.49	18.57
4800	1100	38.68			6.99	0.9466	-23	0.89	29.02	18.69
5400	1102				6.99	0.9478	-23	0.89	29.51	18.67
6000	1104	↓	↓	↓	6.99	0.9488	-24	0.86	32.47	18.57

Start Time: 1044 Elapsed Time (min): 20 Water Quality Meter ID & SN: TROLL 9500 - RZ7278

Stop Time: 1104 Average Purge Rate (mL/min): 300 Date Calibrated: 12 Oct 2016

SAMPLING DATA

Sample Date: 12 Oct. 2016 Sample Time: 1115 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ☑ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 6000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Josh Clark / Dave Haxel

DATE: 10/13/16 **WEATHER:** 58° Partly Cloudy

MONITORING WELL ID: MW-28 **SAMPLE ID:** MW28-ROX-101316

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.86 ft
Depth to Water (btoc): 37.96 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 33.61 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 6.00 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = — ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = 40.86 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

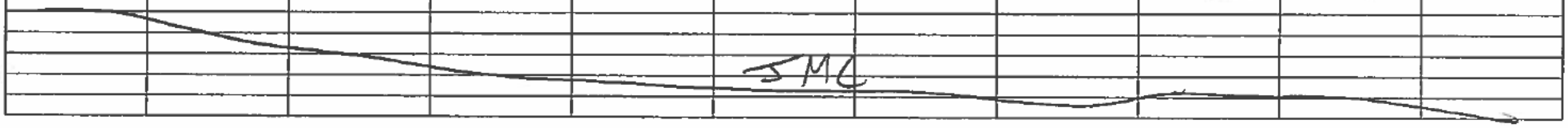
Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1140	37.86	clear	slight	6.78	1.817	28	0.48	81.95	18.58
600	1142	"			6.76	1.823	32	0.33	83.14	18.90
1200	1144	37.97			6.75	1.827	36	0.19	89.87	18.76
~~1600~~ 1800	1146				6.75	1.834	36	0.11	77.37	18.66
2400	1148				6.74	1.842	28	0.09	42.83	18.59
3000	1150				6.74	1.848	14	0.03	30.71	18.48
3600	1152				6.74	1.848	3	0.03	25.40	18.38
4200	1154	37.98			6.75	1.851	-5	0.00	24.72	18.29
4800	1156				6.75	1.853	-11	0.00	16.22	18.40
5400	1158				6.75	1.855	-14	-0.02	10.58	18.43



Start Time: 1140 **Elapsed Time (min):** 18 **Water Quality Meter ID & SN:** TROLL 9500 -- R27278

Stop Time: 1158 **Average Purge Rate (mL/min):** 300 **Date Calibrated:** 10/13/16

SAMPLING DATA

Sample Date: 10/13/16 **Sample Time:** 1205 **Lab Analysis:** VOC, SVOC

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300 **QA/QCSamples:** None

VOA Vials, No Headspace (Y): Initials: JC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 5400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / Dave Haxel

DATE: 12 Oct. 2016 WEATHER: Cloudy 70-

MONITORING WELL ID: P-54 SAMPLE ID: P54-ROX-101216

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 63.00 ft
Depth to Water (btoc): 37.85 ft
Depth to LNAPL/DNAPL (btoc): / ft
Depth to Top of Screen (btoc): 38.00 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 25.15 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever Is Deeper = 43.00 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = / ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = / ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0842	37.85	clear	NONE	6.77	1.203	199	5.71	8.696	17.82
600	0844	"	↓	↓	6.80	1.194	197	5.48	9.779	17.92
1200	0846	37.88			6.81	1.185	196	5.26	6.058	18.03
1800	0848	↓			6.82	1.181	195	5.09	5.987	18.10
2400	0850				6.82	1.180	194	4.98	5.408	18.16

D. Haxel
12 Oct. 2016

Start Time: 0842 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 0850 Average Purge Rate (mL/min): 300 Date Calibrated: 12 Oct. 2016

SAMPLING DATA

Sample Date: 12 Oct. 2016 Sample Time: 0900 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: S.Fisher, K. Walkowska

DATE: 10-18-16 WEATHER: 70° Overcast

MONITORING WELL ID: P-55R SAMPLE ID: Not sampled

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 50.68 ft
Depth to Water (btoc): 39.42 ft
Depth to LNAPL/DNAPL (btoc): 39.16 ft
Depth to Top of Screen (btoc): 40.43 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.26 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = _____ ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = _____ ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = _____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = _____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: _____ ppm
Wellbore PID/FID Reading: _____ ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
					Product in well					
					LNAPL					

Start Time: _____ Elapsed Time (min): _____ Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: _____ Average Purge Rate (mL/min): _____ Date Calibrated: _____

SAMPLING DATA

Sample Date: _____ Sample Time: _____ Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low-Flow Sample Flow Rate (mL/min): _____ QA/QC Samples: _____

~~VOA Viale, No Headspace~~ ☐ Initials: _____

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

well not sampled; LNAPL product in well

Total Purge Volume: _____ mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** K.Walkowska S Fisher

DATE: 17 Oct 2016 **WEATHER:** sunny clear 80s

MONITORING WELL ID: P-56 Split **SAMPLE ID:** ~~MW~~ (W) P56-ROX-101716-EB ~~P56~~ P56-ROX-101716 P56-WRR-101716-EB P56-WRR-101716

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 65.82 ft
Depth to Water (btoc): 42.35 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 40.82 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 23.47 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever Is Deeper = 54.09 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = — ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
				STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
600	1128	42.42	clr	hydrocarbon	7.14	1.905	-136	0.16	19.46	23.76
1200	1130	↓	clr	" "	7.12	1.899	-138	0.02	19.31	23.77
1800	1132		clr	" "	7.11	1.889	-140	-0.04	22.40	23.83
2400	1134	42.42	clr	" "	7.10	1.880	-142	-0.06	18.40	23.97
3000	1136	↓	↓	↓	7.10	1.869	-144	-0.06	18.19	24.07
3600	1138				7.09	1.861	-144	-0.07	19.56	24.16

Samuel Fisher

Start Time: 1126
Stop Time: 1138
Elapsed Time (min): 12
Average Purge Rate (mL/min): 300 mL/min
Water Quality Meter ID & SN: TROLL 9500 -- R27278
Date Calibrated: 10-17-16

SAMPLING DATA

Sample Date: 17 Oct 2016
Sample Time: 1140
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: Equipment Blank
VOA Vials, No Headspace ☒ Initials: SF KW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

water from well was mildly effervescent (contained small bubbles)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** S. Fisher, K. Walkowska

DATE: 10-18-16 **WEATHER:** 70° Overcast

MONITORING WELL ID: P-57 **SAMPLE ID:** PS9-ROX-101816

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 54.19 ft
Depth to Water (btoc): 43.17 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 44.19 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.02 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 49.19 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = NA ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = NA ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 124.6 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
300	1041	43.80	clr	hydrocarbon	6.88	1.506	-131	0.64	9.429	23.85
900	1043	↓	clr	"	6.87	1.511	-136	0.27	22.13	23.78
2100	1046	43.85	clr	"	6.88	1.511	-139	0.15	19.61	23.87
2700	1049	↓	clr	"	6.88	1.513	-141	0.08	21.43	23.89
3300	1051	↓	clr	"	6.88	1.513	-142	0.04	6.127	23.94
3900	1053	43.96	clr	"	6.88	1.511	-143	0.05	6.355	23.87

Samuel Fisher

Start Time: 1040 **Elapsed Time (min):** 12 **Water Quality Meter ID & SN:** TROLL 9500 - R27278

Stop Time: 1063 **Average Purge Rate (mL/min):** 300 **Date Calibrated:** 10-18-2016

SAMPLING DATA

Sample Date: 18 Oct 2016 **Sample Time:** 1055 **Lab Analysis:** VOC, SVOC

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300 **QA/QC Samples:** none

VOA Vials, No Headspace ☒ **Initials:** SMF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3900 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** S. Fisher, K. Walkowska

DATE: 10-18-16 **WEATHER:** 75° Overcast

MONITORING WELL ID: P-58 **SAMPLE ID:** P58-ROX-101816

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 65.21 ft
Depth to Water (btoc): 41.05 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 40.21 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 24.16 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 46.05 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = NA ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = NA ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 40.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
300	1304	41.19	CLR	Hydrocarbon like	6.72	2.675	-109	0.54	8.925	24.53
900	1306	↓	CLR	" "	6.70	2.674	-115	0.16	9.120	24.45
1500	1308		CLR	" "	6.70	2.669	-117	0.15	10.801	24.50
2100	1310		CLR	" "	6.69	2.656	-119	0.09	11.73	24.52
2700	1312		CLR	" "	6.69	2.653	-121	0.08	8.849	24.51
3300	1314		CLR	" "	6.69	2.648	-123	0.05	15.56	24.48

Samuel Fisher

Start Time: 1304
Stop Time: 1314

Elapsed Time (min): 10
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - R27278
Date Calibrated: 10-18-16

SAMPLING DATA

Sample Date: 10-18-16
Sample Time: 1315
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: none
VOA Vials, No Headspace ☒ Initials: SMF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3300 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** S. Fisher, K. Walkowska

DATE: 10-18-16 **WEATHER:** 70° Overcast

MONITORING WELL ID: P-59 **SAMPLE ID:** P-59-ROX-101816 and P59-WRR-101816

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 72.91 ft
Depth to Water (btoc): 43.39 ft
Depth to LNAPL/DNAPL (btoc): VF ft
Depth to Top of Screen (btoc): 47.91 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 29.52 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 52.9 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = NA ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = NA ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 328.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
600	0909		CLR	hydrocarbon-like	6.603	1.481	-112	0.63	8.918	28.85
1200	0911	43.37	CLR	"	6.604	1.483	-115	0.36	13.55	28.66
1800	0913	↓	CLR		6.605	1.481	-115	0.30	19.03	28.54
2400	~~0915~~ 0921	↓	CLR	"	6.604	1.534	-105	1.16	12.37	27.25
3000	~~0917~~ 0927	43.37	CLR	"	6.608	1.546	-110	0.33	13.28	27.20
3600	0933	↓	CLR	"	6.607	1.543	-114	0.15	16.96	27.22
4200	0935		CLR	"	6.607	1.537	-117	0.08	22.10	27.35
4800	0937		CLR	"	6.607	1.529	-119	0.04	23.98	27.40
5400	0939		CLR	"	6.607	1.525	-121	0.03	8.423	27.37

Samuel Fisher

Start Time: 0907 / 929 Elapsed Time (min): 22 Water Quality Meter ID & SN: TROLL 9500 - K27278

Stop Time: 0913 / 939 Average Purge Rate (mL/min): 300mL/min Date Calibrated: 10-18-2016

SAMPLING DATA

Sample Date: 10-18-16 Sample Time: 0945 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: none

VOA Vials, No Headspace [X] Initials: SMF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Battery died and pump hose was disconnected in the midst of purging. Crew was able to redeploy pump and use truck battery to continue.

Total Purge Volume: 5400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** M Miller / J. Peters

DATE: 10/14/16 **WEATHER:** Sunny 60's

MONITORING WELL ID: P-66 **SAMPLE ID:** ~~P-66~~ MW P66-ROX-101416

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 59.72 ft
Depth to Water (btoc): 32.61 ft
Depth to LNAPL/DNAPL (btoc): ~~32.61~~ ft
Depth to Top of Screen (btoc): 34.72 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 27.11 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 34.72 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = N/A ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = N/A ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 59.6 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
	STABLE (over 3 readings)				+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
600	1151	32.63	Clear	~~Petroleum~~ up	6.64	1446	-110	0.19	8.133	20.61
~~600~~ 1200	1154	32.64	Clear	Hydrocarbon	6.63	1432	-110	0.09	10.09	20.72
~~1200~~ 1800	1157	32.64	Clear	"	6.63	1432	-111	0.04	12.54	20.92
2400	1201	32.64	Clear	"	6.63	1419	-111	0.02	13.50	21.18

Start Time: 1151 Elapsed Time (min): 10 Water Quality Meter ID & SN: TROLL 9500 – ~~27501~~ 27278

Stop Time: 1201 Average Purge Rate (mL/min): 250 Date Calibrated: 10/14/16

SAMPLING DATA

Sample Date: 10/14/16 Sample Time: 1205 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 250 QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: MM

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** S. Fisher, K. Walkowska

DATE: 10-18-16 **WEATHER:** 70° Overcast

MONITORING WELL ID: P-68 **SAMPLE ID:** Not sampled

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 70.26 ft
Depth to Water (btoc): 41.46 ft
Depth to LNAPL/DNAPL (btoc): 41.4 ft
Depth to Top of Screen (btoc): 45.26 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 28.80 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
			~~Product~~ LNAPL in well							

Start Time: Elapsed Time (min): Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: Average Purge Rate (mL/min): Date Calibrated:

~~SAMPLING DATA~~

Sample Date: Sample Time: Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): QA/QC Samples:

VOA Vials, No Headspace ☐ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

well not sampled, ~~product~~ LNAPL in well

Total Purge Volume: mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** M. Miller / J. Peters

DATE: 10/14/16 **WEATHER:** Sunny 60's

MONITORING WELL ID: P-74 **SAMPLE ID:** P74-RQX-101416

INITIAL DATA

Well Diameter: 4 in
Total Well Depth (btoc): 69.43 ft
Depth to Water (btoc): 39.44 ft
Depth to LNAPL/DNAPL (btoc): NP ft
Depth to Top of Screen (btoc): 44.43 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 29.99 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = _____ ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = _____ ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 44.43 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = N/A ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = N/A ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
600	1424	39.80	Clear	Hydrocarbon	7.21	296.0	-152	0.28	2.180	21.58
1200	1417	39.80	Clear	"	7.07	296.2	-165	0.05	2.695	21.38
1800	1429	39.80	Clear	"	7.04	296.7	-173	-0.01	2.752	21.35
2400	1433	39.80	Clear	"	7.03	297.3	-179	-0.04	3.081	21.36
3000	1437	39.80	Clear	"	7.02	297.9	-185	-0.05	1.784	21.43

Start Time: 1423 Elapsed Time (min): 12 Water Quality Meter ID & SN: TROLL 9500 - ~~R 27304~~ 27278

Stop Time: 1435 Average Purge Rate (mL/min): 300 Date Calibrated: 10/14/16

SAMPLING DATA

Sample Date: 10/14/16 Sample Time: 1440 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: N/A

VOA Vials, No Headspace ☑ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** T. Jones / C. Williams

DATE: 10/18/16 **WEATHER:** overcast

MONITORING WELL ID: P-93A **SAMPLE ID:** P93A-ROX-101816 / P93A-WRR-101816

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 53.07 ft
Depth to Water (btoc): 41.35 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 43.07 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.72 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 48.07 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = _____ ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = _____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = _____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: _____ ppm
Wellbore PID/FID Reading: _____ ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor (Moderate to Active)	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1049	41.50	clear		6.84	1.550	98	2.50	8.193	20.67
800	1050	41.50			6.82	1.552	101	2.34	7.411	20.55
1600	1051	41.50			6.81	1.556	102	2.21	6.408	20.55
2400	1053				6.80	1.560	103	2.12	5.877	20.56
3200	1054				6.79	1.563	105	2.09	5.170	20.57

Start Time: 1049
Stop Time: 1054

Elapsed Time (min): 6
Average Purge Rate (mL/min): 400

Water Quality Meter ID & SN: TROLL 9500 -- R26968
Date Calibrated: 10/18/16

SAMPLING DATA

Sample Date: 10/18/16
Sample Time: 1100
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 400
QA/QC Samples: Dup
VOA Vials, No Headspace ☒ Initials: CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** T. Joner / C. Williams

DATE: 10/18/16 **WEATHER:** overcast

MONITORING WELL ID: P-93B **SAMPLE ID:** P93B-Rox-101816 / P93B-wrr-101816

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 76.60 ft
Depth to Water (btoc): 42.73 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 74.60 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 33.87 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever Is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = 74.60 ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Dedicated Well Wizard

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
TS 10/17/16 ~~1305~~ 0	1305	42.73	clear	strong HC	7.00	1.361	-97	1.07	7.307	19.43
800	1307	↓	↓	like odor	6.98	1.355	-97	0.98	9.399	19.09
1600	1309				6.95	1.358	-97	1.04	6.869	18.88
2400	1310				6.94	1.358	-98	0.87	4.963	18.77
3200	1311				6.94	1.357	-99	0.88	8.973	18.70

Start Time: 1305
Stop Time: 1311
Elapsed Time (min): 6
Average Purge Rate (mL/min): 400
Water Quality Meter ID & SN: TROLL 9500 - R26968
Date Calibrated: 10/18/16

SAMPLING DATA

Sample Date: 10/18/16
Sample Time: 1315
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 400
QA/QC Samples: none
VOA Vials, No Headspace ☑ Initials: CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: T. Jones / C. Williams

DATE: 10/18/16 WEATHER: Overcast

MONITORING WELL ID: P-93C SAMPLE ID: P93C - WBR-101816 / P93C-ROX-101816

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 97.47 ft
Depth to Water (btoc): 42.49 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 92.47 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 54.98 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = 94.97 ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = ____ ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.2 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-5% +/-20 mV +/-0.2 mg/L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0919	42.49	clear	none	6.88	1.277	-170	0.19	5.938	19.21
800	0921	42.51			6.90	1.277	-171	0.17	5.753	19.22
1600	0922	42.51			6.91	1.278	-171	0.16	5.908	19.26
2400	0924	42.52			6.92	1.278	-172	0.16	6.602	19.27
3200	0925	"			6.93	1.278	-172	0.15	7.371	19.28

Tom 2
10/18/16

Start Time: 0919 Elapsed Time (min): 6 Water Quality Meter ID & SN: TROLL 9500 -- R26968

Stop Time: 0925 Average Purge Rate (mL/min): 400 Date Calibrated: 10/18/16

SAMPLING DATA

Sample Date: 10/18/16 Sample Time: 0935 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 400 QA/QC Samples: MS MSD

VOA Vials, No Headspace ☑ - Initials: CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: T. Jones / C. Williams

DATE: 10/17/16 WEATHER: Sunny 90° / windy

MONITORING WELL ID: P-93D SAMPLE ID: P93D-ROX-101716 and P93D-WRR-101716

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 128.00 ft
Depth to Water (btoc): 42.78 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 125.75 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 85.22 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ⅓ * (Screen Length) = _____ ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ⅓ * (Water Column Height) = _____ ft btoc~~

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = _____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ⅓ * (Water Column Height) = _____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = 126.00 ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Dedicated Well Wizard

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1513	42.78	clear	slight HC	7.14	1.457	-171	2.48	26.51	21.29
600	1515	↓	↓	like	7.13	1.467	-159	2.10	28.42	20.79
1200	1517			↓	7.12	1.471	-145	2.03	31.54	20.39
1800	1519				7.12	1.473	-134	2.12	28.08	20.31
2400	1521				7.12	1.478	-125	2.05	28.86	20.21

Start Time: 1513 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 - R26968

Stop Time: 1521 Average Purge Rate (mL/min): 300 Date Calibrated: 10/17/16

SAMPLING DATA

Sample Date: 10/17/16 Sample Time: 1530 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: None

VOA Vials, No Headspace ☑ Initials: CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: Josh Clark / Dave Haxel

DATE: 10/07/16 WEATHER: 70° Sunny

MONITORING WELL ID: P-114R SAMPLE ID: P114R-ROX-100716

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 33.31 ft
Depth to Water (btoc): 23.89 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 23.01 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.42 ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Top of Screen + ½ * (Screen Length) = — ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at:
Depth to Water + ½ * (Water Column Height) = 28.60 ft btoc 4.71 + 23.89

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.7 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1111	23.89 ~~23.92~~	clear	moderate	6.86	1.109	-119	0.31	26.37	21.60
600	1113	↓	↓	↓	6.83	1.105	-123	0.17	22.31	21.64
1200	1115				6.83	1.101	-125	0.10	21.61	21.65
2100	1118				6.83	1.098	-126	0.06	18.24	21.56
2700	1120				6.83	1.094	-127	0.03	16.25	21.50

JMC

Start Time: 1111 Elapsed Time (min): 9 Water Quality Meter ID & SN: TROLL 9500 R 27278

Stop Time: 1120 Average Purge Rate (mL/min): 300 Date Calibrated: 10/7/16

SAMPLING DATA

Sample Date: 10/7/16 Sample Time: 1125 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: NONE

VOA Vials, No Headspace ~~(X)~~ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2700 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Josh Clark / Dave Haxel

DATE: 10/13/16 **WEATHER:** 52° Cloudy

MONITORING WELL ID: ROST-3-MW **SAMPLE ID:** ROST3MW - ROX - 101316

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 48.06 ft
Depth to Water (btoc): 38.19 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 37.81 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.87 (4.93) ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = 43.12 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 296.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0936	38.19	Black Pellets	moderate	7.11	1.284	-124	0.73	13.48	16.23
600	0938	"	Particles		7.04	1.285	-131	0.31	17.03	16.60
1200	0940	38.19			7.02	1.282	-136	0.13	14.70	16.98
1800	0942	↓			7.02	1.282	-141	0.06	13.14	17.26
2400	0944	~~38.19~~ 38.26			7.01	1.283	-145	0.04	12.82	17.41
3000	0946	"	↓	↓	7.01	1.283	-148	0.03	11.54	17.48
3600	0948	"			7.01	1.283	-152	0.00	8.929	17.52

13 Oct. 2016

Start Time: 0936 Elapsed Time (min): 12 Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 0948 Average Purge Rate (mL/min): 300 Date Calibrated: 10/13/16

SAMPLING DATA

Sample Date: 10/13/16 Sample Time: 0955 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: None

VOA Vials, No Headspace: ☒ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW **PROJECT NUMBER:** 60477387 - 1.03.004 **FIELD PERSONNEL:** Josh Clark / Dave Hassel

DATE: 10/13/16 **WEATHER:** 66° Sunny

MONITORING WELL ID: ROST-4-PZ(C) **SAMPLE ID:** ROST4PZC-ROX-101316

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.20 ft
Depth to Water (btoc): 38.45 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 34.95 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 6.75 (3.37) ft btoc

If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = — ft btoc

If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = 41.82 ft btoc

~~If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = _____ ft btoc~~

~~If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = _____ ft btoc~~

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 2.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1422	38.45		strong	7.38	1.575	-208	0.36	29.99	17.92
600	1424				7.36	1.575	-210	0.19	27.51	18.07
1200	1426				7.34	1.576	-217	0.15	96.14	18.35
1800	1428				7.33	1.575	-227	0.03	10.68	18.30
2400	1430				7.32	1.575	-232	0.01	13.48	18.23
3000	1432	38.96			7.32	1.575	-237	-0.01	8.619	18.19
3600	1434	"			7.31	1.575	-241	-0.01	8.383	18.20

13 Oct. 2016

Start Time: 1422 **Elapsed Time (min):** 12 **Water Quality Meter ID & SN:** TROLL 9500 - R27278

Stop Time: 1434 **Average Purge Rate (mL/min):** 300 **Date Calibrated:** 10/13/16

SAMPLING DATA

Sample Date: 10/13/16 **Sample Time:** 1445 **Lab Analysis:** VOC, SVOC

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300 **QA/QC Samples:** None

VOA Vials, No Headspace - Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3600 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q16 GW PROJECT NUMBER: 60477387 - 1.03.004 FIELD PERSONNEL: S. Fisher, K. Walkowska

DATE: 10-17-16 WEATHER: 85° Sunny

MONITORING WELL ID: T-12 SAMPLE ID: T12-ROX-101716 and T12-WRR-101716

INITIAL DATA

Well Diameter): 6 in
Total Well Depth (btoc): 72.83 ft
Depth to Water (btoc): 41.19 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 46.83 ft
Screen Length: 26 ft

Water Column Height (do not include LNAPL or DNAPL): 31.64 ft btoc

~~If Depth to Top of Screen is greater than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Top of Screen + ½ * (Screen Length) = ft btoc~~

~~If Depth to Top of Screen is less than Depth to Water, and Screen Length is less than or = 10', Place Pump at: Depth to Water + ½ * (Water Column Height) = ft btoc~~

If Screen Length is greater than 10', Place Pump at: 5' Below Top of Screen OR 5' Below Top of Water, Whichever is Deeper = 51.83 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = — ft btoc

If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 17.4 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-5%	+/-20 mV	+/-0.2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
300	1359		CLR	hydrocarbon like	6.96	1.263	-129	0.47	9.6006	27.43
900	1401	41.23	CLR	"	6.93	1.267	-130	0.20	8.044	26.63
1500	1403	41.23	CLR	"	6.92	1.269	-133	0.10	8.754	26.43
2100	1405	↓	CLR	"	6.91	1.269	-134	0.05	10.70	26.35
2700	1407		CLR	"	6.91	1.268	-135	0.04	12.90	26.26

Samuel Fisher

Start Time: 1358 Elapsed Time (min): 9 mins Water Quality Meter ID & SN: TROLL 9500 - R27278

Stop Time: 1407 Average Purge Rate (mL/min): 300 mL/min Date Calibrated: 10-17-2016

SAMPLING DATA

Sample Date: 17 Oct 2016 Sample Time: 1410 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 mL/min QA/QCSamples: NONE

VOA Vials, No Headspace [X] Initials: SF KW

COMMENTS:

water from well has tiny bubbles

Total Purge Volume: 2,700 mL

Appendix C.
Data Review Forms and Laboratory Analytical Reports

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128414-1-R2

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/5/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-100616-8011	TB-ROX-100616-8260
MW4-ROX-100616	MW25-ROX-100616
MW8-ROX-100616	MW7-ROX-100616
MW7-ROX-100616-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 several LCS recoveries were outside evaluation criteria. The SVOC surrogate recovery for 2-fluorophenol was outside criteria in sample MW7-ROX-100616-Dup, and the surrogate recovery for nitrobenzene-d_5 was outside evaluation criteria for the SVOC method blank. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in samples MW8-ROX-100616 and MW7-ROX-100616. Several samples were diluted to bring analyte concentrations within calibration range. These issues are addressed further in the appropriate sections below. Additionally, the laboratory report was revised on October 28, 2016 to correct the sample ID of MW7-ROX-100616-Dup to reflect the COC designation; no qualification of data was required. The laboratory report was also revised on December 5, 2016 to elaborate on PAH QC recoveries; please see Section 5.0 of this review.

Additionally, the continuing calibration verification for acetone, 4-methyl-2-pentanone (MIBK), n-nitrosodimethylamine, bis(2-chloroethyl)ether, and pyridine exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that two of three coolers were received by the laboratory at temperatures of 0.0°C and 1.0°C, which are outside the 4°C ± 2°C criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS Recovery	LCS Criteria
LCS 400-327297/1003	VOCs	Acrylonitrile	**148**	64-142
LCS 400-327297/1003	VOCs	2-Hexanone	**146**	65-137
LCS 400-327297/1003	VOCs	4-Methyl-2-pentanone (MIBK)	**158**	69-138
LCS 400-326226/2-A	SVOCs	Benzenethiol	**12**	20-150
LCS 400-326226/2-A	PAHs	Acenaphthylene	**0.9**	44-120

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. Professional judgment was used to qualify, however not reject, data associated with acenaphthylene in LCS 400-326226/2-A; samples in question were spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criterion).

Sample ID	Parameter	Analyte	Qualification
MW4-ROX-100616	PAHs	Acenaphthylene	**UJ**
MW4-ROX-100616	SVOCs	Benzenethiol	**UJ**
MW25-ROX-100616	PAHs	Acenaphthylene	**UJ**
MW25-ROX-100616	SVOCs	Benzenethiol	**UJ**
MW8-ROX-100616	PAHs	Acenaphthylene	**UJ**
MW8-ROX-100616	SVOCs	Benzenethiol	**UJ**
MW7-ROX-100616	PAHs	Acenaphthylene	**UJ**
MW7-ROX-100616	SVOCs	Benzenethiol	**UJ**
MW7-ROX-100616-Dup	PAHs	Acenaphthylene	**UJ**
MW7-ROX-100616-Dup	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW7-ROX-100616-Dup	SVOCs	2-Fluorophenol	**0.7**	10-120
MB 400-326226/1-A	SVOCs	Nitrobenzene-d_5	**127**	27-120

Qualifications due to surrogate recoveries were not required due to only one of three acid

fraction surrogate recoveries being outside evaluation criteria in sample MW7-ROX-100616-Dup. Method blank MB 400-326226/1-A is a quality control sample, and does not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
MW8-ROX-100616	SVOCs	Perylene-d_{12}	**209766**	228515-914058
MW7-ROX-100616	SVOCs	Perylene-d_{12}	**190874**	228515-914058

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below.

Sample ID	Parameter	Analyte	Qualification
MW8-ROX-100616	SVOCs	Dibenz[a,h]acridine	**UJ**
MW8-ROX-100616	SVOCs	Di-n-octyl phthalate	**UJ**
MW7-ROX-100616	SVOCs	Dibenz[a,h]acridine	**UJ**
MW7-ROX-100616	SVOCs	Di-n-octyl phthalate	**UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW7-ROX-100616	MW7-ROX-100616-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

No

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128414-1
TestAmerica SDG: 60477387-1.03.004/1.03.0044
Client Project/Site: ROXANA QUARTERLY GW (4Q16)
Revision: 2

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
12/5/2016 4:51:52 PM

Carolyn Hooper, Project Manager I
(850)471-6226
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LINKS

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Reviewed 12/5/2016 ky

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128414-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128414-1

Receipt
The samples were received on 10/7/2016 9:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.0°C, 1.0°C and 4.0°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-327297 recovered above the upper control limit for Acetone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 400-327297 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) recovered below the reporting limit (RL) for 2-chloroethyl vinyl ether for batch 327297 due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 327297 was not calculable for 2-chloroethyl vinyl ether due to the recovery being below the reporting limit (RL).

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-100616-8260 (400-128414-2), MW4-ROX-100616 (400-128414-3), MW25-ROX-100616 (400-128414-4), MW8-ROX-100616 (400-128414-5), MW7-ROX-100616 (400-128414-6) and MW7-ROX-100616 (400-128414-7). The requested target analytes list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327297 were outside control limits for 4-Methyl-2-pentanone (MIBK) due to high bias for this analyte on this day of analysis.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 400-326587 recovered above the upper control limit for N-Nitrosodimethylamine, Bis(2-chloroethyl)ether and Pyridine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW4-ROX-100616 (400-128414-3), MW25-ROX-100616 (400-128414-4), MW8-ROX-100616 (400-128414-5), MW7-ROX-100616 (400-128414-6) and MW7-ROX-100616 (400-128414-7).

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW7-ROX-100616 (400-128414-7) and (MB 400-326226/1-A). These results have been reported and qualified.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-326226 and analytical batch 400-326587 recovered outside control limits for the following analyte(s): Phenylmercaptan. Phenylmercaptan has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The following samples was diluted to bring the concentration of target analytes within the calibration range: MW8-ROX-100616 (400-128414-5), MW7-ROX-100616 (400-128414-6) and MW7-ROX-100616 (400-128414-7). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following analyte recovered outside control limits for the LCS, MS &MSD associated with preparation batch 400-326226 and analytical batch 400-326641: Acenaphthylene. Although the minimal recovery of Acenapthylene in the LCS would typically warrant corrective action, the sample in question was itself spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criteria). Qualified results have been reported.

Job ID: 400-128414-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Revision 1
This report has been revised to notate sample (400-128414-7) as MW-7-ROX-100616-DUP.

Revision 2
This report has been revised per client request to elaborate further on Method 8270D LL recovery issues. Please see Method 8270D LL on previous page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128414-1	TB-ROX-100616-8011	Water	10/06/16 00:00	10/07/16 09:12
400-128414-2	TB-ROX-100616-8260	Water	10/06/16 00:00	10/07/16 09:12
400-128414-3	MW4-ROX-100616	Water	10/06/16 10:30	10/07/16 09:12
400-128414-4	MW25-ROX-100616	Water	10/06/16 11:45	10/07/16 09:12
400-128414-5	MW8-ROX-100616	Water	10/06/16 13:50	10/07/16 09:12
400-128414-6	MW7-ROX-100616	Water	10/06/16 15:05	10/07/16 09:12
400-128414-7	MW7-ROX-100616-DUP	Water	10/06/16 15:05	10/07/16 09:12

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Client Sample ID: TB-ROX-100616-8011 — Lab Sample ID: 400-128414-1

No Detections.

Client Sample ID: TB-ROX-100616-8260 — Lab Sample ID: 400-128414-2

No Detections.

Client Sample ID: MW4-ROX-100616 — Lab Sample ID: 400-128414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1.1		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	7.3		1.0	0.74	ug/L	1		8260B	Total/NA
Xylenes, Total	1.9	J	10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.16	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.069	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW25-ROX-100616 — Lab Sample ID: 400-128414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	370		2.0	0.76	ug/L	2		8260B	Total/NA
Methyl tert-butyl ether	39		2.0	1.5	ug/L	2		8260B	Total/NA
1-Methylnaphthalene	0.21		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.049	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Di-n-octyl phthalate	0.64	J	10	0.44	ug/L	1		8270D	Total/NA
Phenol	9.5	J	10	2.6	ug/L	1		8270D	Total/NA

Client Sample ID: MW8-ROX-100616 — Lab Sample ID: 400-128414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	630000		5000	1900	ug/L	5000		8260B	Total/NA
1-Methylnaphthalene	9.8		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	2.8		0.20	0.020	ug/L	1		8270D LL	Total/NA
2,4-Dimethylphenol	3.5	J	10	3.5	ug/L	1		8270D	Total/NA
Phenol	290		100	26	ug/L	10		8270D	Total/NA

Client Sample ID: MW7-ROX-100616 — Lab Sample ID: 400-128414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	910000		10000	3800	ug/L	10000		8260B	Total/NA
Acenaphthene	0.17	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	3.1		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	4.3		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylphenol	4.0	J	10	1.8	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	4.9	J	20	1.0	ug/L	1		8270D	Total/NA
Phenol	460		100	26	ug/L	10		8270D	Total/NA

Client Sample ID: MW7-ROX-100616-DUP — Lab Sample ID: 400-128414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	840000		10000	3800	ug/L	10000		8260B	Total/NA
Acenaphthene	0.16	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	2.9		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	3.9		0.20	0.020	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Client Sample ID: MW7-ROX-100616-DUP (Continued)

Lab Sample ID: 400-128414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.3	J	10	2.3	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	3.8	J	10	3.5	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate	0.46	J	10	0.44	ug/L	1		8270D	Total/NA
2-Methylphenol	4.4	J	10	1.8	ug/L	1		8270D	Total/NA
Phenol	430		100	26	ug/L	10		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-100616-8011
Date Collected: 10/06/16 00:00
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/14/16 11:03	10/14/16 23:34	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/14/16 11:03	10/14/16 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*10/14/16 11:03*	*10/14/16 23:34*	*1*

Client Sample ID: TB-ROX-100616-8260

Date Collected: 10/06/16 00:00
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 08:59	1
Acrolein	ND		20	10	ug/L			10/19/16 08:59	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 08:59	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 08:59	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 08:59	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 08:59	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 08:59	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 08:59	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 08:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 08:59	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 08:59	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 08:59	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 08:59	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 08:59	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 08:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 08:59	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 08:59	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 08:59	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 08:59	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 08:59	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 08:59	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 08:59	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 08:59	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 08:59	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 08:59	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 08:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 08:59	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 08:59	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 08:59	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 08:59	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 08:59	1

Client Sample ID: TB-ROX-100616-8260

Date Collected: 10/06/16 00:00
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 08:59	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 08:59	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 08:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 08:59	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 08:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 08:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:59	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 08:59	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 08:59	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 08:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 08:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 08:59	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 08:59	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 08:59	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/19/16 08:59*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/19/16 08:59*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/19/16 08:59*	*1*

Client Sample ID: MW4-ROX-100616

Date Collected: 10/06/16 10:30
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 13:24	1
Acrolein	ND		20	10	ug/L			10/19/16 13:24	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 13:24	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 13:24	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 13:24	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 13:24	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 13:24	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 13:24	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 13:24	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 13:24	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 13:24	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 13:24	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 13:24	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 13:24	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:24	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 13:24	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 13:24	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 13:24	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 13:24	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 13:24	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 13:24	1
Isopropylbenzene	**1.1**		1.0	0.53	ug/L			10/19/16 13:24	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 13:24	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 13:24	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 13:24	1
Methyl tert-butyl ether	**7.3**		1.0	0.74	ug/L			10/19/16 13:24	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 13:24	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 13:24	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 13:24	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 13:24	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 13:24	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 13:24	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 13:24	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 13:24	1

Client Sample ID: MW4-ROX-100616

Date Collected: 10/06/16 10:30
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 13:24	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 13:24	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 13:24	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 13:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 13:24	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 13:24	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 13:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 13:24	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:24	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 13:24	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 13:24	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 13:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 13:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 13:24	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 13:24	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 13:24	1
Xylenes, Total	**1.9**	**J**	10	1.6	ug/L			10/19/16 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/19/16 13:24*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/19/16 13:24*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*10/19/16 13:24*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 12:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:14	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
1-Methylnaphthalene	**0.16**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1
2-Methylnaphthalene	**0.069**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*49*		*33 - 138*	*10/11/16 09:31*	*10/13/16 12:14*	*1*
2-Fluorobiphenyl	*50*		*15 - 122*	*10/11/16 09:31*	*10/13/16 12:14*	*1*

Client Sample ID: MW4-ROX-100616
Date Collected: 10/06/16 10:30
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	44		19 - 130	10/11/16 09:31	10/13/16 12:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 16:33	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 16:33	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 16:33	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 16:33	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 16:33	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 16:33	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 16:33	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 16:33	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 16:33	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 16:33	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 16:33	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 16:33	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 16:33	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 16:33	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 16:33	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 16:33	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 16:33	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 16:33	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 16:33	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 16:33	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 16:33	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 16:33	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 16:33	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 16:33	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 16:33	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 16:33	1

Client Sample ID: MW4-ROX-100616

Date Collected: 10/06/16 10:30
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 20:43	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 16:33	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 16:33	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 16:33	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 16:33	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 16:33	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*34 - 120*	*10/11/16 09:31*	*10/13/16 16:33*	*1*
2-Fluorophenol	*72*		*10 - 120*	*10/11/16 09:31*	*10/13/16 16:33*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/11/16 09:31*	*10/13/16 16:33*	*1*
Phenol-d5	*69*		*10 - 120*	*10/11/16 09:31*	*10/13/16 16:33*	*1*
Terphenyl-d14	*96*		*53 - 125*	*10/11/16 09:31*	*10/13/16 16:33*	*1*
2,4,6-Tribromophenol	*99*		*15 - 135*	*10/11/16 09:31*	*10/13/16 16:33*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/14/16 11:03	10/15/16 00:04	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/14/16 11:03	10/15/16 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*51 - 149*	*10/14/16 11:03*	*10/15/16 00:04*	*1*

Client Sample ID: MW25-ROX-100616

Date Collected: 10/06/16 11:45
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	20	ug/L			10/19/16 09:47	2
Acrolein	ND		40	20	ug/L			10/19/16 09:47	2
Acrylonitrile	ND	*	20	5.6	ug/L			10/19/16 09:47	2
Benzene	**370**		2.0	0.76	ug/L			10/19/16 09:47	2
Bromobenzene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
Bromochloromethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Bromodichloromethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Bromoform	ND		10	1.4	ug/L			10/19/16 09:47	2
Bromomethane	ND		2.0	2.0	ug/L			10/19/16 09:47	2
2-Butanone (MEK)	ND		50	5.2	ug/L			10/19/16 09:47	2
Carbon disulfide	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Chlorobenzene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Dibromochloromethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Chloroethane	ND		2.0	1.5	ug/L			10/19/16 09:47	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			10/19/16 09:47	2
Chloroform	ND		2.0	1.2	ug/L			10/19/16 09:47	2
1-Chlorohexane	ND		2.0	1.4	ug/L			10/19/16 09:47	2
Chloromethane	ND		2.0	1.7	ug/L			10/19/16 09:47	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			10/19/16 09:47	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			10/19/16 09:47	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			10/19/16 09:47	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Ethylbenzene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			10/19/16 09:47	2
Hexachlorobutadiene	ND		10	1.8	ug/L			10/19/16 09:47	2
2-Hexanone	ND	*	50	6.2	ug/L			10/19/16 09:47	2
Isopropylbenzene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
Methylene bromide	ND		10	1.2	ug/L			10/19/16 09:47	2
Methylene Chloride	ND		10	6.0	ug/L			10/19/16 09:47	2
4-Methyl-2-pentanone (MIBK)	ND	*	50	3.6	ug/L			10/19/16 09:47	2
Methyl tert-butyl ether	**39**		2.0	1.5	ug/L			10/19/16 09:47	2
m-Xylene & p-Xylene	ND		10	3.2	ug/L			10/19/16 09:47	2
Naphthalene	ND		2.0	2.0	ug/L			10/19/16 09:47	2
n-Butylbenzene	ND		2.0	1.5	ug/L			10/19/16 09:47	2
N-Propylbenzene	ND		2.0	1.4	ug/L			10/19/16 09:47	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
o-Xylene	ND		10	1.2	ug/L			10/19/16 09:47	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			10/19/16 09:47	2

Client Sample ID: MW25-ROX-100616

Date Collected: 10/06/16 11:45
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.4	ug/L			10/19/16 09:47	2
Styrene	ND		2.0	2.0	ug/L			10/19/16 09:47	2
tert-Butylbenzene	ND		2.0	1.3	ug/L			10/19/16 09:47	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Tetrachloroethene	ND		2.0	1.2	ug/L			10/19/16 09:47	2
Toluene	ND		2.0	1.4	ug/L			10/19/16 09:47	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			10/19/16 09:47	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			10/19/16 09:47	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			10/19/16 09:47	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			10/19/16 09:47	2
Trichloroethene	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			10/19/16 09:47	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			10/19/16 09:47	2
1,2,4-Trimethylbenzene	ND		2.0	1.6	ug/L			10/19/16 09:47	2
1,3,5-Trimethylbenzene	ND		2.0	1.1	ug/L			10/19/16 09:47	2
Vinyl acetate	ND		50	4.0	ug/L			10/19/16 09:47	2
Vinyl chloride	ND		2.0	1.0	ug/L			10/19/16 09:47	2
Xylenes, Total	ND		20	3.2	ug/L			10/19/16 09:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 09:47*	*2*
Dibromofluoromethane	*101*		*81 - 121*		*10/19/16 09:47*	*2*
Toluene-d8 (Surr)	*89*		*80 - 120*		*10/19/16 09:47*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 12:39	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 12:39	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
1-Methylnaphthalene	**0.21**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1
2-Methylnaphthalene	**0.049**	J	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*54*		*33 - 138*	*10/11/16 09:31*	*10/13/16 12:39*	*1*
2-Fluorobiphenyl	*57*		*15 - 122*	*10/11/16 09:31*	*10/13/16 12:39*	*1*

Client Sample ID: MW25-ROX-100616
Date Collected: 10/06/16 11:45
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	48		19 - 130	10/11/16 09:31	10/13/16 12:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 17:03	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 17:03	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 17:03	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 17:03	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 17:03	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 17:03	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 17:03	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 17:03	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 17:03	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 17:03	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 17:03	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 17:03	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 17:03	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 17:03	1
Di-n-octyl phthalate	**0.64**	**J**	10	0.44	ug/L		10/11/16 09:31	10/13/16 17:03	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 17:03	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 17:03	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 17:03	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 17:03	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 17:03	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 17:03	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 17:03	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 17:03	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 17:03	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 17:03	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 17:03	1

Client Sample ID: MW25-ROX-100616
Date Collected: 10/06/16 11:45
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/17/16 16:35	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 17:03	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 17:03	1
Phenol	**9.5**	**J**	10	2.6	ug/L		10/11/16 09:31	10/13/16 17:03	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 17:03	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 17:03	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/11/16 09:31*	*10/13/16 17:03*	*1*
2-Fluorophenol	*57*		*10 - 120*	*10/11/16 09:31*	*10/13/16 17:03*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/11/16 09:31*	*10/13/16 17:03*	*1*
Phenol-d5	*73*		*10 - 120*	*10/11/16 09:31*	*10/13/16 17:03*	*1*
Terphenyl-d14	*81*		*53 - 125*	*10/11/16 09:31*	*10/13/16 17:03*	*1*
2,4,6-Tribromophenol	*105*		*15 - 135*	*10/11/16 09:31*	*10/13/16 17:03*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/14/16 11:03	10/15/16 00:34	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/14/16 11:03	10/15/16 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*51 - 149*	*10/14/16 11:03*	*10/15/16 00:34*	*1*

Client Sample ID: MW8-ROX-100616

Date Collected: 10/06/16 13:50
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		130000	50000	ug/L			10/19/16 10:11	5000
Acrolein	ND		100000	50000	ug/L			10/19/16 10:11	5000
Acrylonitrile	ND	*	50000	14000	ug/L			10/19/16 10:11	5000
Benzene	**630000**		5000	1900	ug/L			10/19/16 10:11	5000
Bromobenzene	ND		5000	2700	ug/L			10/19/16 10:11	5000
Bromochloromethane	ND		5000	2600	ug/L			10/19/16 10:11	5000
Bromodichloromethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
Bromoform	ND		25000	3600	ug/L			10/19/16 10:11	5000
Bromomethane	ND		5000	4900	ug/L			10/19/16 10:11	5000
2-Butanone (MEK)	ND		130000	13000	ug/L			10/19/16 10:11	5000
Carbon disulfide	ND		5000	2500	ug/L			10/19/16 10:11	5000
Carbon tetrachloride	ND		5000	2500	ug/L			10/19/16 10:11	5000
Chlorobenzene	ND		5000	2500	ug/L			10/19/16 10:11	5000
Dibromochloromethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
Chloroethane	ND		5000	3800	ug/L			10/19/16 10:11	5000
2-Chloroethyl vinyl ether	ND		25000	10000	ug/L			10/19/16 10:11	5000
Chloroform	ND		5000	3000	ug/L			10/19/16 10:11	5000
1-Chlorohexane	ND		5000	3500	ug/L			10/19/16 10:11	5000
Chloromethane	ND		5000	4200	ug/L			10/19/16 10:11	5000
cis-1,2-Dichloroethene	ND		5000	2500	ug/L			10/19/16 10:11	5000
cis-1,3-Dichloropropene	ND		25000	2500	ug/L			10/19/16 10:11	5000
1,2-Dichlorobenzene	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,3-Dichlorobenzene	ND		5000	2700	ug/L			10/19/16 10:11	5000
1,4-Dichlorobenzene	ND		5000	3200	ug/L			10/19/16 10:11	5000
Dichlorodifluoromethane	ND		5000	4300	ug/L			10/19/16 10:11	5000
1,1-Dichloroethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,2-Dichloroethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,1-Dichloroethene	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,2-Dichloropropane	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,3-Dichloropropane	ND		5000	2500	ug/L			10/19/16 10:11	5000
2,2-Dichloropropane	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,1-Dichloropropene	ND		5000	2500	ug/L			10/19/16 10:11	5000
Ethylbenzene	ND		5000	2500	ug/L			10/19/16 10:11	5000
Ethyl methacrylate	ND		5000	3000	ug/L			10/19/16 10:11	5000
Hexachlorobutadiene	ND		25000	4500	ug/L			10/19/16 10:11	5000
2-Hexanone	ND	*	130000	16000	ug/L			10/19/16 10:11	5000
Isopropylbenzene	ND		5000	2700	ug/L			10/19/16 10:11	5000
Methylene bromide	ND		25000	3000	ug/L			10/19/16 10:11	5000
Methylene Chloride	ND		25000	15000	ug/L			10/19/16 10:11	5000
4-Methyl-2-pentanone (MIBK)	ND	*	130000	9000	ug/L			10/19/16 10:11	5000
Methyl tert-butyl ether	ND		5000	3700	ug/L			10/19/16 10:11	5000
m-Xylene & p-Xylene	ND		25000	8000	ug/L			10/19/16 10:11	5000
Naphthalene	ND		5000	5000	ug/L			10/19/16 10:11	5000
n-Butylbenzene	ND		5000	3800	ug/L			10/19/16 10:11	5000
N-Propylbenzene	ND		5000	3500	ug/L			10/19/16 10:11	5000
o-Chlorotoluene	ND		5000	2900	ug/L			10/19/16 10:11	5000
o-Xylene	ND		25000	3000	ug/L			10/19/16 10:11	5000
p-Chlorotoluene	ND		5000	2800	ug/L			10/19/16 10:11	5000
p-Isopropyltoluene	ND		5000	3600	ug/L			10/19/16 10:11	5000

Client Sample ID: MW8-ROX-100616

Date Collected: 10/06/16 13:50
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5000	3500	ug/L			10/19/16 10:11	5000
Styrene	ND		5000	5000	ug/L			10/19/16 10:11	5000
tert-Butylbenzene	ND		5000	3200	ug/L			10/19/16 10:11	5000
1,1,1,2-Tetrachloroethane	ND		5000	2600	ug/L			10/19/16 10:11	5000
1,1,2,2-Tetrachloroethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
Tetrachloroethene	ND		5000	2900	ug/L			10/19/16 10:11	5000
Toluene	ND		5000	3500	ug/L			10/19/16 10:11	5000
trans-1,2-Dichloroethene	ND		5000	2500	ug/L			10/19/16 10:11	5000
trans-1,3-Dichloropropene	ND		25000	2500	ug/L			10/19/16 10:11	5000
1,2,3-Trichlorobenzene	ND		5000	3500	ug/L			10/19/16 10:11	5000
1,2,4-Trichlorobenzene	ND		5000	4100	ug/L			10/19/16 10:11	5000
1,1,1-Trichloroethane	ND		5000	2500	ug/L			10/19/16 10:11	5000
1,1,2-Trichloroethane	ND		25000	2500	ug/L			10/19/16 10:11	5000
Trichloroethene	ND		5000	2500	ug/L			10/19/16 10:11	5000
Trichlorofluoromethane	ND		5000	2600	ug/L			10/19/16 10:11	5000
1,2,3-Trichloropropane	ND		25000	4200	ug/L			10/19/16 10:11	5000
1,2,4-Trimethylbenzene	ND		5000	4100	ug/L			10/19/16 10:11	5000
1,3,5-Trimethylbenzene	ND		5000	2800	ug/L			10/19/16 10:11	5000
Vinyl acetate	ND		130000	10000	ug/L			10/19/16 10:11	5000
Vinyl chloride	ND		5000	2500	ug/L			10/19/16 10:11	5000
Xylenes, Total	ND		50000	8000	ug/L			10/19/16 10:11	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 10:11*	*5000*
Dibromofluoromethane	*106*		*81 - 121*		*10/19/16 10:11*	*5000*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 10:11*	*5000*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 13:05	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:05	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
1-Methylnaphthalene	**9.8**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1
2-Methylnaphthalene	**2.8**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*43*		*33 - 138*	*10/11/16 09:31*	*10/13/16 13:05*	*1*
2-Fluorobiphenyl	*57*		*15 - 122*	*10/11/16 09:31*	*10/13/16 13:05*	*1*

Client Sample ID: MW8-ROX-100616

Date Collected: 10/06/16 13:50
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*49*		*19 - 130*	*10/11/16 09:31*	*10/13/16 13:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 17:34	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 17:34	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 17:34	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 17:34	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 17:34	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 17:34	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 17:34	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 17:34	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 17:34	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Dibenz[a,h]acridine	ND	* UJ	10	3.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 17:34	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4-Dimethylphenol	**3.5**	**J**	10	3.5	ug/L		10/11/16 09:31	10/13/16 17:34	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 17:34	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 17:34	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 17:34	1
Di-n-octyl phthalate	ND	UJ	10	0.44	ug/L		10/11/16 09:31	10/13/16 17:34	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 17:34	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 17:34	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 17:34	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 17:34	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 17:34	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 17:34	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 17:34	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 17:34	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 17:34	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 17:34	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 17:34	1

Client Sample ID: MW8-ROX-100616

Date Collected: 10/06/16 13:50
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		100	33	ug/L		10/11/16 09:31	10/17/16 17:06	10
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 17:34	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 17:34	1
Phenol	**290**		100	26	ug/L		10/11/16 09:31	10/17/16 17:06	10
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 17:34	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 17:34	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/11/16 09:31*	*10/13/16 17:34*	*1*
2-Fluorophenol	*31*		*10 - 120*	*10/11/16 09:31*	*10/13/16 17:34*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*10/11/16 09:31*	*10/13/16 17:34*	*1*
Phenol-d5	*49*		*10 - 120*	*10/11/16 09:31*	*10/13/16 17:34*	*1*
Terphenyl-d14	*82*		*53 - 125*	*10/11/16 09:31*	*10/13/16 17:34*	*1*
2,4,6-Tribromophenol	*109*		*15 - 135*	*10/11/16 09:31*	*10/13/16 17:34*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/14/16 11:03	10/15/16 01:04	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/14/16 11:03	10/15/16 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*62*		*51 - 149*	*10/14/16 11:03*	*10/15/16 01:04*	*1*

Client Sample ID: MW7-ROX-100616

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250000	100000	ug/L			10/19/16 10:35	10000
Acrolein	ND		200000	100000	ug/L			10/19/16 10:35	10000
Acrylonitrile	ND	*	100000	28000	ug/L			10/19/16 10:35	10000
Benzene	**910000**		10000	3800	ug/L			10/19/16 10:35	10000
Bromobenzene	ND		10000	5400	ug/L			10/19/16 10:35	10000
Bromochloromethane	ND		10000	5200	ug/L			10/19/16 10:35	10000
Bromodichloromethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
Bromoform	ND		50000	7100	ug/L			10/19/16 10:35	10000
Bromomethane	ND		10000	9800	ug/L			10/19/16 10:35	10000
2-Butanone (MEK)	ND		250000	26000	ug/L			10/19/16 10:35	10000
Carbon disulfide	ND		10000	5000	ug/L			10/19/16 10:35	10000
Carbon tetrachloride	ND		10000	5000	ug/L			10/19/16 10:35	10000
Chlorobenzene	ND		10000	5000	ug/L			10/19/16 10:35	10000
Dibromochloromethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
Chloroethane	ND		10000	7600	ug/L			10/19/16 10:35	10000
2-Chloroethyl vinyl ether	ND		50000	20000	ug/L			10/19/16 10:35	10000
Chloroform	ND		10000	6000	ug/L			10/19/16 10:35	10000
1-Chlorohexane	ND		10000	7000	ug/L			10/19/16 10:35	10000
Chloromethane	ND		10000	8300	ug/L			10/19/16 10:35	10000
cis-1,2-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:35	10000
cis-1,3-Dichloropropene	ND		50000	5000	ug/L			10/19/16 10:35	10000
1,2-Dichlorobenzene	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,3-Dichlorobenzene	ND		10000	5400	ug/L			10/19/16 10:35	10000
1,4-Dichlorobenzene	ND		10000	6400	ug/L			10/19/16 10:35	10000
Dichlorodifluoromethane	ND		10000	8500	ug/L			10/19/16 10:35	10000
1,1-Dichloroethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,2-Dichloroethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,1-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,2-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,3-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:35	10000
2,2-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,1-Dichloropropene	ND		10000	5000	ug/L			10/19/16 10:35	10000
Ethylbenzene	ND		10000	5000	ug/L			10/19/16 10:35	10000
Ethyl methacrylate	ND		10000	6000	ug/L			10/19/16 10:35	10000
Hexachlorobutadiene	ND		50000	9000	ug/L			10/19/16 10:35	10000
2-Hexanone	ND	*	250000	31000	ug/L			10/19/16 10:35	10000
Isopropylbenzene	ND		10000	5300	ug/L			10/19/16 10:35	10000
Methylene bromide	ND		50000	5900	ug/L			10/19/16 10:35	10000
Methylene Chloride	ND		50000	30000	ug/L			10/19/16 10:35	10000
4-Methyl-2-pentanone (MIBK)	ND	*	250000	18000	ug/L			10/19/16 10:35	10000
Methyl tert-butyl ether	ND		10000	7400	ug/L			10/19/16 10:35	10000
m-Xylene & p-Xylene	ND		50000	16000	ug/L			10/19/16 10:35	10000
Naphthalene	ND		10000	10000	ug/L			10/19/16 10:35	10000
n-Butylbenzene	ND		10000	7600	ug/L			10/19/16 10:35	10000
N-Propylbenzene	ND		10000	6900	ug/L			10/19/16 10:35	10000
o-Chlorotoluene	ND		10000	5700	ug/L			10/19/16 10:35	10000
o-Xylene	ND		50000	6000	ug/L			10/19/16 10:35	10000
p-Chlorotoluene	ND		10000	5600	ug/L			10/19/16 10:35	10000
p-Isopropyltoluene	ND		10000	7100	ug/L			10/19/16 10:35	10000

Client Sample ID: MW7-ROX-100616

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10000	7000	ug/L			10/19/16 10:35	10000
Styrene	ND		10000	10000	ug/L			10/19/16 10:35	10000
tert-Butylbenzene	ND		10000	6300	ug/L			10/19/16 10:35	10000
1,1,1,2-Tetrachloroethane	ND		10000	5200	ug/L			10/19/16 10:35	10000
1,1,2,2-Tetrachloroethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
Tetrachloroethene	ND		10000	5800	ug/L			10/19/16 10:35	10000
Toluene	ND		10000	7000	ug/L			10/19/16 10:35	10000
trans-1,2-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:35	10000
trans-1,3-Dichloropropene	ND		50000	5000	ug/L			10/19/16 10:35	10000
1,2,3-Trichlorobenzene	ND		10000	7000	ug/L			10/19/16 10:35	10000
1,2,4-Trichlorobenzene	ND		10000	8200	ug/L			10/19/16 10:35	10000
1,1,1-Trichloroethane	ND		10000	5000	ug/L			10/19/16 10:35	10000
1,1,2-Trichloroethane	ND		50000	5000	ug/L			10/19/16 10:35	10000
Trichloroethene	ND		10000	5000	ug/L			10/19/16 10:35	10000
Trichlorofluoromethane	ND		10000	5200	ug/L			10/19/16 10:35	10000
1,2,3-Trichloropropane	ND		50000	8400	ug/L			10/19/16 10:35	10000
1,2,4-Trimethylbenzene	ND		10000	8200	ug/L			10/19/16 10:35	10000
1,3,5-Trimethylbenzene	ND		10000	5600	ug/L			10/19/16 10:35	10000
Vinyl acetate	ND		250000	20000	ug/L			10/19/16 10:35	10000
Vinyl chloride	ND		10000	5000	ug/L			10/19/16 10:35	10000
Xylenes, Total	ND		100000	16000	ug/L			10/19/16 10:35	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/19/16 10:35*	*10000*
Dibromofluoromethane	*105*		*81 - 121*		*10/19/16 10:35*	*10000*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 10:35*	*10000*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.17**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 13:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:31	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
1-Methylnaphthalene	**3.1**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1
2-Methylnaphthalene	**4.3**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*52*		*33 - 138*	*10/11/16 09:31*	*10/13/16 13:31*	*1*
2-Fluorobiphenyl	*64*		*15 - 122*	*10/11/16 09:31*	*10/13/16 13:31*	*1*

Client Sample ID: MW7-ROX-100616
Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*56*		*19 - 130*	*10/11/16 09:31*	*10/13/16 13:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 18:04	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 18:04	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 18:04	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 18:04	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 18:04	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 18:04	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 18:04	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 18:04	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 18:04	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Dibenz[a,h]acridine	ND	* UJ	10	3.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 18:04	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 18:04	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 18:04	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 18:04	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 18:04	1
Di-n-octyl phthalate	ND	UJ	10	0.44	ug/L		10/11/16 09:31	10/13/16 18:04	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 18:04	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 18:04	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 18:04	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 18:04	1
2-Methylphenol	**4.0**	**J**	10	1.8	ug/L		10/11/16 09:31	10/13/16 18:04	1
3 & 4 Methylphenol	**4.9**	**J**	20	1.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 18:04	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 18:04	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 18:04	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 18:04	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 18:04	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 18:04	1

Client Sample ID: MW7-ROX-100616

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		100	33	ug/L		10/11/16 09:31	10/17/16 17:36	10
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 18:04	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 18:04	1
Phenol	**460**		100	26	ug/L		10/11/16 09:31	10/17/16 17:36	10
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 18:04	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 18:04	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/11/16 09:31*	*10/13/16 18:04*	*1*
2-Fluorophenol	*41*		*10 - 120*	*10/11/16 09:31*	*10/13/16 18:04*	*1*
Nitrobenzene-d5	*68*		*27 - 120*	*10/11/16 09:31*	*10/13/16 18:04*	*1*
Phenol-d5	*45*		*10 - 120*	*10/11/16 09:31*	*10/13/16 18:04*	*1*
Terphenyl-d14	*65*		*53 - 125*	*10/11/16 09:31*	*10/13/16 18:04*	*1*
2,4,6-Tribromophenol	*93*		*15 - 135*	*10/11/16 09:31*	*10/13/16 18:04*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/14/16 11:03	10/15/16 01:33	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/14/16 11:03	10/15/16 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*148*		*51 - 149*	*10/14/16 11:03*	*10/15/16 01:33*	*1*

Client Sample ID: MW7-ROX-100616-DUP

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250000	100000	ug/L			10/19/16 10:59	10000
Acrolein	ND		200000	100000	ug/L			10/19/16 10:59	10000
Acrylonitrile	ND	*	100000	28000	ug/L			10/19/16 10:59	10000
Benzene	**840000**		10000	3800	ug/L			10/19/16 10:59	10000
Bromobenzene	ND		10000	5400	ug/L			10/19/16 10:59	10000
Bromochloromethane	ND		10000	5200	ug/L			10/19/16 10:59	10000
Bromodichloromethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
Bromoform	ND		50000	7100	ug/L			10/19/16 10:59	10000
Bromomethane	ND		10000	9800	ug/L			10/19/16 10:59	10000
2-Butanone (MEK)	ND		250000	26000	ug/L			10/19/16 10:59	10000
Carbon disulfide	ND		10000	5000	ug/L			10/19/16 10:59	10000
Carbon tetrachloride	ND		10000	5000	ug/L			10/19/16 10:59	10000
Chlorobenzene	ND		10000	5000	ug/L			10/19/16 10:59	10000
Dibromochloromethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
Chloroethane	ND		10000	7600	ug/L			10/19/16 10:59	10000
2-Chloroethyl vinyl ether	ND		50000	20000	ug/L			10/19/16 10:59	10000
Chloroform	ND		10000	6000	ug/L			10/19/16 10:59	10000
1-Chlorohexane	ND		10000	7000	ug/L			10/19/16 10:59	10000
Chloromethane	ND		10000	8300	ug/L			10/19/16 10:59	10000
cis-1,2-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:59	10000
cis-1,3-Dichloropropene	ND		50000	5000	ug/L			10/19/16 10:59	10000
1,2-Dichlorobenzene	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,3-Dichlorobenzene	ND		10000	5400	ug/L			10/19/16 10:59	10000
1,4-Dichlorobenzene	ND		10000	6400	ug/L			10/19/16 10:59	10000
Dichlorodifluoromethane	ND		10000	8500	ug/L			10/19/16 10:59	10000
1,1-Dichloroethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,2-Dichloroethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,1-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,2-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,3-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:59	10000
2,2-Dichloropropane	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,1-Dichloropropene	ND		10000	5000	ug/L			10/19/16 10:59	10000
Ethylbenzene	ND		10000	5000	ug/L			10/19/16 10:59	10000
Ethyl methacrylate	ND		10000	6000	ug/L			10/19/16 10:59	10000
Hexachlorobutadiene	ND		50000	9000	ug/L			10/19/16 10:59	10000
2-Hexanone	ND	*	250000	31000	ug/L			10/19/16 10:59	10000
Isopropylbenzene	ND		10000	5300	ug/L			10/19/16 10:59	10000
Methylene bromide	ND		50000	5900	ug/L			10/19/16 10:59	10000
Methylene Chloride	ND		50000	30000	ug/L			10/19/16 10:59	10000
4-Methyl-2-pentanone (MIBK)	ND	*	250000	18000	ug/L			10/19/16 10:59	10000
Methyl tert-butyl ether	ND		10000	7400	ug/L			10/19/16 10:59	10000
m-Xylene & p-Xylene	ND		50000	16000	ug/L			10/19/16 10:59	10000
Naphthalene	ND		10000	10000	ug/L			10/19/16 10:59	10000
n-Butylbenzene	ND		10000	7600	ug/L			10/19/16 10:59	10000
N-Propylbenzene	ND		10000	6900	ug/L			10/19/16 10:59	10000
o-Chlorotoluene	ND		10000	5700	ug/L			10/19/16 10:59	10000
o-Xylene	ND		50000	6000	ug/L			10/19/16 10:59	10000
p-Chlorotoluene	ND		10000	5600	ug/L			10/19/16 10:59	10000
p-Isopropyltoluene	ND		10000	7100	ug/L			10/19/16 10:59	10000

Client Sample ID: MW7-ROX-100616-DUP
Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10000	7000	ug/L			10/19/16 10:59	10000
Styrene	ND		10000	10000	ug/L			10/19/16 10:59	10000
tert-Butylbenzene	ND		10000	6300	ug/L			10/19/16 10:59	10000
1,1,1,2-Tetrachloroethane	ND		10000	5200	ug/L			10/19/16 10:59	10000
1,1,2,2-Tetrachloroethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
Tetrachloroethene	ND		10000	5800	ug/L			10/19/16 10:59	10000
Toluene	ND		10000	7000	ug/L			10/19/16 10:59	10000
trans-1,2-Dichloroethene	ND		10000	5000	ug/L			10/19/16 10:59	10000
trans-1,3-Dichloropropene	ND		50000	5000	ug/L			10/19/16 10:59	10000
1,2,3-Trichlorobenzene	ND		10000	7000	ug/L			10/19/16 10:59	10000
1,2,4-Trichlorobenzene	ND		10000	8200	ug/L			10/19/16 10:59	10000
1,1,1-Trichloroethane	ND		10000	5000	ug/L			10/19/16 10:59	10000
1,1,2-Trichloroethane	ND		50000	5000	ug/L			10/19/16 10:59	10000
Trichloroethene	ND		10000	5000	ug/L			10/19/16 10:59	10000
Trichlorofluoromethane	ND		10000	5200	ug/L			10/19/16 10:59	10000
1,2,3-Trichloropropane	ND		50000	8400	ug/L			10/19/16 10:59	10000
1,2,4-Trimethylbenzene	ND		10000	8200	ug/L			10/19/16 10:59	10000
1,3,5-Trimethylbenzene	ND		10000	5600	ug/L			10/19/16 10:59	10000
Vinyl acetate	ND		250000	20000	ug/L			10/19/16 10:59	10000
Vinyl chloride	ND		10000	5000	ug/L			10/19/16 10:59	10000
Xylenes, Total	ND		100000	16000	ug/L			10/19/16 10:59	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 10:59*	*10000*
Dibromofluoromethane	*106*		*81 - 121*		*10/19/16 10:59*	*10000*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/19/16 10:59*	*10000*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.16**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 13:58	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 13:58	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
1-Methylnaphthalene	**2.9**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Methylnaphthalene	**3.9**		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*52*		*33 - 138*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
2-Fluorobiphenyl	*60*		*15 - 122*	*10/11/16 09:31*	*10/13/16 13:58*	*1*

Client Sample ID: MW7-ROX-100616-DUP

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*50*		*19 - 130*	*10/11/16 09:31*	*10/13/16 13:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 18:35	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 18:35	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 18:35	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 18:35	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 18:35	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 18:35	1
Bis(2-ethylhexyl) phthalate	**2.3**	**J**	10	2.3	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 18:35	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 18:35	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 18:35	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 18:35	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4-Dimethylphenol	**3.8**	**J**	10	3.5	ug/L		10/11/16 09:31	10/13/16 18:35	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 18:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 18:35	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 18:35	1
Di-n-octyl phthalate	**0.46**	**J**	10	0.44	ug/L		10/11/16 09:31	10/13/16 18:35	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 18:35	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 18:35	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 18:35	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 18:35	1
2-Methylphenol	**4.4**	**J**	10	1.8	ug/L		10/11/16 09:31	10/13/16 18:35	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 18:35	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 18:35	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 18:35	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 18:35	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 18:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 18:35	1

Client Sample ID: MW7-ROX-100616-DUP

Date Collected: 10/06/16 15:05
Date Received: 10/07/16 09:12

Lab Sample ID: 400-128414-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		100	33	ug/L		10/11/16 09:31	10/17/16 18:07	10
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 18:35	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 18:35	1
Phenol	**430**		100	26	ug/L		10/11/16 09:31	10/17/16 18:07	10
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 18:35	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 18:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/11/16 09:31*	*10/13/16 18:35*	*1*
2-Fluorophenol	*0.7*	*X*	*10 - 120*	*10/11/16 09:31*	*10/13/16 18:35*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*10/11/16 09:31*	*10/13/16 18:35*	*1*
Phenol-d5	*50*		*10 - 120*	*10/11/16 09:31*	*10/13/16 18:35*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/11/16 09:31*	*10/13/16 18:35*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*10/11/16 09:31*	*10/13/16 18:35*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/14/16 11:03	10/15/16 02:03	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/14/16 11:03	10/15/16 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*51 - 149*	*10/14/16 11:03*	*10/15/16 02:03*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128414-2	TB-ROX-100616-8260	91	100	90
400-128414-3	MW4-ROX-100616	91	99	88
400-128414-4	MW25-ROX-100616	90	101	89
400-128414-5	MW8-ROX-100616	90	106	91
400-128414-6	MW7-ROX-100616	91	105	91
400-128414-7	MW7-ROX-100616-DUP	90	106	90
400-128416-A-3 MS	Matrix Spike	97	93	98
400-128416-A-3 MSD	Matrix Spike Duplicate	98	95	97
LCS 400-327297/1003	Lab Control Sample	98	93	97
MB 400-327297/5	Method Blank	90	99	91

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128414-3	MW4-ROX-100616	96	72	87	69	96	99
400-128414-4	MW25-ROX-100616	81	57	76	73	81	105
400-128414-5	MW8-ROX-100616	75	31	70	49	82	109
400-128414-6	MW7-ROX-100616	69	41	68	45	65	93
400-128414-7	MW7-ROX-100616-DUP	75	0.7 X	70	50	71	97
400-128416-E-3-B MS	Matrix Spike	71	46	65	60	61	89
400-128416-E-3-C MSD	Matrix Spike Duplicate	74	55	107	54	49 X	85
LCS 400-326226/2-A	Lab Control Sample	92	71	81	88	97	114
MB 400-326226/1-A	Method Blank	90	59	127 X	87	83	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128414-3	MW4-ROX-100616	49	50	44
400-128414-4	MW25-ROX-100616	54	57	48
400-128414-5	MW8-ROX-100616	43	57	49
400-128414-6	MW7-ROX-100616	52	64	56

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128414-7	MW7-ROX-100616-DUP	52	60	50
400-128416-E-3-B MS	Matrix Spike	63	90	77
400-128416-E-3-C MSD	Matrix Spike Duplicate	45	80	70
LCS 400-326226/2-A	Lab Control Sample	86	87	73
MB 400-326226/1-A	Method Blank	61	58	58

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(51-149)
400-128414-1	TB-ROX-100616-8011	111
400-128414-3	MW4-ROX-100616	115
400-128414-4	MW25-ROX-100616	112
400-128414-5	MW8-ROX-100616	62
400-128414-6	MW7-ROX-100616	148
400-128414-7	MW7-ROX-100616-DUP	112
LCS 400-326785/2-A	Lab Control Sample	108
LCSD 400-326785/3-A	Lab Control Sample Dup	105
MB 400-326785/1-A	Method Blank	112

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Client Sample ID: TB-ROX-100616-8011

Lab Sample ID: 400-128414-1
Matrix: Water

Date Collected: 10/06/16 00:00
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.2 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/14/16 23:34	KH1	TAL PEN

Client Sample ID: TB-ROX-100616-8260

Lab Sample ID: 400-128414-2
Matrix: Water

Date Collected: 10/06/16 00:00
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 08:59	CS	TAL PEN

Client Sample ID: MW4-ROX-100616

Lab Sample ID: 400-128414-3
Matrix: Water

Date Collected: 10/06/16 10:30
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 13:24	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 16:33	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 20:43	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326537	10/13/16 12:14	VC1	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/15/16 00:04	KH1	TAL PEN

Client Sample ID: MW25-ROX-100616

Lab Sample ID: 400-128414-4
Matrix: Water

Date Collected: 10/06/16 11:45
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	327297	10/19/16 09:47	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 17:03	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327029	10/17/16 16:35	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326537	10/13/16 12:39	VC1	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/15/16 00:34	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Client Sample ID: MW8-ROX-100616

Lab Sample ID: 400-128414-5

Date Collected: 10/06/16 13:50
Matrix: Water
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5000	5 mL	5 mL	327297	10/19/16 10:11	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 17:34	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		10			327029	10/17/16 17:06	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326537	10/13/16 13:05	VC1	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/15/16 01:04	KH1	TAL PEN

Client Sample ID: MW7-ROX-100616

Lab Sample ID: 400-128414-6

Date Collected: 10/06/16 15:05
Matrix: Water
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10000	5 mL	5 mL	327297	10/19/16 10:35	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 18:04	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		10			327029	10/17/16 17:36	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326537	10/13/16 13:31	VC1	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/15/16 01:33	KH1	TAL PEN

Client Sample ID: MW7-ROX-100616-DUP

Lab Sample ID: 400-128414-7

Date Collected: 10/06/16 15:05
Matrix: Water
Date Received: 10/07/16 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10000	5 mL	5 mL	327297	10/19/16 10:59	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 18:35	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		10			327029	10/17/16 18:07	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326537	10/13/16 13:58	VC1	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/15/16 02:03	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-326226/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 11:56	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 17:40	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326641	10/12/16 21:46	VC1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-326785/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/14/16 16:36	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327297/5

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 08:35	CS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-326226/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 12:26	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 18:10	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:10	VC1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-326785/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/14/16 17:06	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327297/1003

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 07:46	CS	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-326785/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	326785	10/14/16 11:03	KH1	TAL PEN
Total/NA	Analysis	8011		1			326958	10/14/16 17:36	KH1	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128416-A-3 MS

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 11:47	CS	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128416-A-3 MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 12:11	CS	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128416-E-3-B MS

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 20:05	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:32	VC1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128416-E-3-C MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 15:32	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Client Sample ID: Matrix Spike Duplicate
Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:55	VC1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-2	TB-ROX-100616-8260	Total/NA	Water	8260B	
400-128414-3	MW4-ROX-100616	Total/NA	Water	8260B	
400-128414-4	MW25-ROX-100616	Total/NA	Water	8260B	
400-128414-5	MW8-ROX-100616	Total/NA	Water	8260B	
400-128414-6	MW7-ROX-100616	Total/NA	Water	8260B	
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8260B	
MB 400-327297/5	Method Blank	Total/NA	Water	8260B	
LCS 400-327297/1003	Lab Control Sample	Total/NA	Water	8260B	
400-128416-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
400-128416-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 326226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-3	MW4-ROX-100616	Total/NA	Water	3520C	
400-128414-4	MW25-ROX-100616	Total/NA	Water	3520C	
400-128414-5	MW8-ROX-100616	Total/NA	Water	3520C	
400-128414-6	MW7-ROX-100616	Total/NA	Water	3520C	
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	3520C	
MB 400-326226/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	3520C	
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	3520C	
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 326537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-3	MW4-ROX-100616	Total/NA	Water	8270D LL	326226
400-128414-4	MW25-ROX-100616	Total/NA	Water	8270D LL	326226
400-128414-5	MW8-ROX-100616	Total/NA	Water	8270D LL	326226
400-128414-6	MW7-ROX-100616	Total/NA	Water	8270D LL	326226
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8270D LL	326226

Analysis Batch: 326587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-3	MW4-ROX-100616	Total/NA	Water	8270D	326226
400-128414-4	MW25-ROX-100616	Total/NA	Water	8270D	326226
400-128414-5	MW8-ROX-100616	Total/NA	Water	8270D	326226
400-128414-6	MW7-ROX-100616	Total/NA	Water	8270D	326226
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8270D	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D	326226
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	8270D	326226
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	326226

Analysis Batch: 326641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D LL	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D LL	326226
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	8270D LL	326226

GC/MS Semi VOA (Continued)

Analysis Batch: 326641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D LL	326226

Analysis Batch: 326743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-3	MW4-ROX-100616	Total/NA	Water	8270D	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D	326226

Analysis Batch: 327029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-4	MW25-ROX-100616	Total/NA	Water	8270D	326226
400-128414-5	MW8-ROX-100616	Total/NA	Water	8270D	326226
400-128414-6	MW7-ROX-100616	Total/NA	Water	8270D	326226
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8270D	326226

GC Semi VOA

Prep Batch: 326785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-1	TB-ROX-100616-8011	Total/NA	Water	8011	
400-128414-3	MW4-ROX-100616	Total/NA	Water	8011	
400-128414-4	MW25-ROX-100616	Total/NA	Water	8011	
400-128414-5	MW8-ROX-100616	Total/NA	Water	8011	
400-128414-6	MW7-ROX-100616	Total/NA	Water	8011	
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8011	
MB 400-326785/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-326785/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-326785/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 326958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128414-1	TB-ROX-100616-8011	Total/NA	Water	8011	326785
400-128414-3	MW4-ROX-100616	Total/NA	Water	8011	326785
400-128414-4	MW25-ROX-100616	Total/NA	Water	8011	326785
400-128414-5	MW8-ROX-100616	Total/NA	Water	8011	326785
400-128414-6	MW7-ROX-100616	Total/NA	Water	8011	326785
400-128414-7	MW7-ROX-100616-DUP	Total/NA	Water	8011	326785
MB 400-326785/1-A	Method Blank	Total/NA	Water	8011	326785
LCS 400-326785/2-A	Lab Control Sample	Total/NA	Water	8011	326785
LCSD 400-326785/3-A	Lab Control Sample Dup	Total/NA	Water	8011	326785

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 08:35	1
Acrolein	ND		20	10	ug/L			10/19/16 08:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/19/16 08:35	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 08:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 08:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 08:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 08:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 08:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 08:35	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 08:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 08:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 08:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 08:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 08:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 08:35	1
2-Hexanone	ND		25	3.1	ug/L			10/19/16 08:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 08:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 08:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 08:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/19/16 08:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 08:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 08:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 08:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 08:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 08:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 08:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 08:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 08:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 08:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 08:35	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 08:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 08:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 08:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 08:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 08:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 08:35*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/19/16 08:35*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 08:35*	*1*

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	302		ug/L		151	43 - 160
Acrolein	500	549		ug/L		110	38 - 160
Acrylonitrile	500	739	*	ug/L		148	64 - 142
Benzene	50.0	55.6		ug/L		111	70 - 130
Bromobenzene	50.0	58.4		ug/L		117	70 - 132
Bromochloromethane	50.0	51.0		ug/L		102	70 - 130
Bromodichloromethane	50.0	50.4		ug/L		101	67 - 133
Bromoform	50.0	50.6		ug/L		101	57 - 140
Bromomethane	50.0	32.9		ug/L		66	10 - 160
2-Butanone (MEK)	200	226		ug/L		113	61 - 145
Carbon disulfide	50.0	51.9		ug/L		104	61 - 137
Carbon tetrachloride	50.0	48.8		ug/L		98	61 - 137
Chlorobenzene	50.0	56.0		ug/L		112	70 - 130
Dibromochloromethane	50.0	52.3		ug/L		105	67 - 135
Chloroethane	50.0	47.0		ug/L		94	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	36.9		ug/L		74	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	61.0		ug/L		122	69 - 130
Chloromethane	50.0	56.1		ug/L		112	58 - 137
cis-1,2-Dichloroethene	50.0	57.9		ug/L		116	68 - 130
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	56.2		ug/L		112	67 - 130
1,3-Dichlorobenzene	50.0	57.4		ug/L		115	70 - 130
1,4-Dichlorobenzene	50.0	59.6		ug/L		119	70 - 130
Dichlorodifluoromethane	50.0	37.3		ug/L		75	41 - 146
1,1-Dichloroethane	50.0	57.2		ug/L		114	70 - 130
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	59.9		ug/L		120	70 - 130
1,3-Dichloropropane	50.0	55.6		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	46.1		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	51.9		ug/L		104	70 - 130
Ethylbenzene	50.0	55.4		ug/L		111	70 - 130
Ethyl methacrylate	50.0	56.1		ug/L		112	68 - 130
Hexachlorobutadiene	50.0	51.6		ug/L		103	53 - 140
2-Hexanone	200	293	*	ug/L		146	65 - 137
Isopropylbenzene	50.0	55.9		ug/L		112	70 - 130
Methylene bromide	50.0	51.8		ug/L		104	70 - 130
Methylene Chloride	50.0	53.3		ug/L		107	66 - 135
4-Methyl-2-pentanone (MIBK)	200	315	*	ug/L		158	69 - 138
Methyl tert-butyl ether	50.0	51.6		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	70 - 130
Naphthalene	50.0	54.8		ug/L		110	47 - 149
n-Butylbenzene	50.0	54.3		ug/L		109	67 - 130
N-Propylbenzene	50.0	56.5		ug/L		113	70 - 130
o-Chlorotoluene	50.0	52.5		ug/L		105	70 - 130
o-Xylene	50.0	54.0		ug/L		108	70 - 130
p-Chlorotoluene	50.0	54.1		ug/L		108	70 - 130
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	56.2		ug/L		112	66 - 130
Styrene	50.0	55.5		ug/L		111	70 - 130
tert-Butylbenzene	50.0	58.5		ug/L		117	64 - 139
1,1,1,2-Tetrachloroethane	50.0	55.1		ug/L		110	67 - 131
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	70 - 131
Tetrachloroethene	50.0	52.4		ug/L		105	65 - 130
Toluene	50.0	54.3		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 138
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	60 - 140
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	68 - 130
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	70 - 130
Trichloroethene	50.0	56.6		ug/L		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.7		ug/L		85	65 - 138
1,2,3-Trichloropropane	50.0	56.3		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	50.0	53.4		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	50.0	57.8		ug/L		116	69 - 130
Vinyl acetate	100	93.1		ug/L		93	26 - 160
Vinyl chloride	50.0	47.4		ug/L		95	59 - 136
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-128416-A-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	215		ug/L		107	43 - 160
Acrolein	ND		500	549		ug/L		110	38 - 160
Acrylonitrile	ND	*	500	726		ug/L		145	62 - 149
Benzene	ND		50.0	53.5		ug/L		107	56 - 142
Bromobenzene	ND		50.0	53.5		ug/L		107	59 - 136
Bromochloromethane	ND		50.0	49.4		ug/L		99	64 - 140
Bromodichloromethane	ND		50.0	47.4		ug/L		95	59 - 143
Bromoform	ND		50.0	45.9		ug/L		92	50 - 140
Bromomethane	ND		50.0	30.0		ug/L		60	10 - 160
2-Butanone (MEK)	ND		200	204		ug/L		102	55 - 150
Carbon disulfide	ND		50.0	47.6		ug/L		95	48 - 152
Carbon tetrachloride	ND		50.0	45.6		ug/L		91	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	49.3		ug/L		99	56 - 143
Chloroethane	ND		50.0	45.9		ug/L		92	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141
1-Chlorohexane	ND		50.0	55.2		ug/L		110	56 - 136
Chloromethane	ND		50.0	50.7		ug/L		101	49 - 148
cis-1,2-Dichloroethene	ND		50.0	56.0		ug/L		112	59 - 143
cis-1,3-Dichloropropene	ND		50.0	50.9		ug/L		102	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.8		ug/L		102	52 - 137
1,3-Dichlorobenzene	ND		50.0	51.4		ug/L		103	54 - 135
1,4-Dichlorobenzene	ND		50.0	53.1		ug/L		106	53 - 135
Dichlorodifluoromethane	ND		50.0	32.2		ug/L		64	16 - 160
1,1-Dichloroethane	ND		50.0	54.4		ug/L		109	61 - 144
1,2-Dichloroethane	ND		50.0	50.0		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	44.6		ug/L		89	54 - 147
1,2-Dichloropropane	ND		50.0	57.9		ug/L		116	66 - 137
1,3-Dichloropropane	ND		50.0	54.1		ug/L		108	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.4		ug/L		87	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	51.7		ug/L		103	58 - 131
Ethyl methacrylate	ND		50.0	54.2		ug/L		108	64 - 130
Hexachlorobutadiene	ND		50.0	42.6		ug/L		85	31 - 149
2-Hexanone	ND	*	200	271		ug/L		136	65 - 140
Isopropylbenzene	ND		50.0	51.8		ug/L		104	56 - 133
Methylene bromide	ND		50.0	49.2		ug/L		98	63 - 138
Methylene Chloride	ND		50.0	50.4		ug/L		101	60 - 146
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146
Methyl tert-butyl ether	1.0		50.0	49.6		ug/L		97	59 - 137
m-Xylene & p-Xylene	ND		50.0	50.6		ug/L		101	57 - 130
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	47.7		ug/L		95	41 - 142
N-Propylbenzene	ND		50.0	50.8		ug/L		102	51 - 138
o-Chlorotoluene	ND		50.0	49.1		ug/L		98	53 - 134
o-Xylene	ND		50.0	50.7		ug/L		101	61 - 130
p-Chlorotoluene	ND		50.0	49.3		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	50.7		ug/L		101	48 - 139
sec-Butylbenzene	ND		50.0	49.5		ug/L		99	50 - 138
Styrene	ND		50.0	51.5		ug/L		103	58 - 131
tert-Butylbenzene	ND		50.0	53.3		ug/L		107	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	50.3		ug/L		101	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	53.8		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	48.9		ug/L		98	52 - 133
Toluene	ND		50.0	51.9		ug/L		104	65 - 130
trans-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.2		ug/L		92	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	47.6		ug/L		95	39 - 148
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	57 - 142
1,1,2-Trichloroethane	ND		50.0	53.1		ug/L		106	66 - 131
Trichloroethene	ND		50.0	53.7		ug/L		107	64 - 136
Trichlorofluoromethane	ND		50.0	41.9		ug/L		84	54 - 156
1,2,3-Trichloropropane	ND		50.0	53.1		ug/L		106	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	48.7		ug/L		97	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.8		ug/L		104	52 - 135
Vinyl acetate	ND		100	92.2		ug/L		92	26 - 160
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152
Xylenes, Total	ND		100	101		ug/L		101	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	221		ug/L		110	43 - 160	3	30
Acrolein	ND		500	605		ug/L		121	38 - 160	10	31
Acrylonitrile	ND	*	500	713		ug/L		143	62 - 149	2	30
Benzene	ND		50.0	52.8		ug/L		106	56 - 142	1	30
Bromobenzene	ND		50.0	50.6		ug/L		101	59 - 136	5	30
Bromochloromethane	ND		50.0	48.2		ug/L		96	64 - 140	2	30
Bromodichloromethane	ND		50.0	46.6		ug/L		93	59 - 143	2	30
Bromoform	ND		50.0	45.2		ug/L		90	50 - 140	2	30
Bromomethane	ND		50.0	39.6		ug/L		79	10 - 160	28	50
2-Butanone (MEK)	ND		200	203		ug/L		101	55 - 150	1	30
Carbon disulfide	ND		50.0	46.8		ug/L		94	48 - 152	2	30
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	55 - 145	1	30
Chlorobenzene	ND		50.0	50.8		ug/L		102	64 - 130	4	30
Dibromochloromethane	ND		50.0	48.5		ug/L		97	56 - 143	2	30
Chloroethane	ND		50.0	50.5		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.4		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	54.1		ug/L		108	56 - 136	2	30
Chloromethane	ND		50.0	55.2		ug/L		110	49 - 148	8	31
cis-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	57 - 140	0	30
1,2-Dichlorobenzene	ND		50.0	48.9		ug/L		98	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	49.6		ug/L		99	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	50.8		ug/L		102	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	36.3		ug/L		73	16 - 160	12	31
1,1-Dichloroethane	ND		50.0	52.9		ug/L		106	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	48.8		ug/L		98	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	43.8		ug/L		88	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	57.1		ug/L		114	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	43.5		ug/L		87	42 - 144	0	31
1,1-Dichloropropene	ND		50.0	49.2		ug/L		98	65 - 136	1	30
Ethylbenzene	ND		50.0	50.6		ug/L		101	58 - 131	2	30
Ethyl methacrylate	ND		50.0	52.9		ug/L		106	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	42.2		ug/L		84	31 - 149	1	36
2-Hexanone	ND	*	200	270		ug/L		135	65 - 140	1	30
Isopropylbenzene	ND		50.0	50.6		ug/L		101	56 - 133	2	30
Methylene bromide	ND		50.0	48.9		ug/L		98	63 - 138	1	30
Methylene Chloride	ND		50.0	49.3		ug/L		99	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146	0	30
Methyl tert-butyl ether	1.0		50.0	49.7		ug/L		97	59 - 137	0	30
m-Xylene & p-Xylene	ND		50.0	48.5		ug/L		97	57 - 130	4	30
Naphthalene	ND		50.0	49.2		ug/L		98	25 - 160	1	30
n-Butylbenzene	ND		50.0	45.2		ug/L		90	41 - 142	5	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	3	30
o-Chlorotoluene	ND		50.0	47.1		ug/L		94	53 - 134	4	30
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130	3	30
p-Chlorotoluene	ND		50.0	47.2		ug/L		94	54 - 133	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	48.6		ug/L		97	48 - 139	4	30
sec-Butylbenzene	ND		50.0	48.3		ug/L		97	50 - 138	2	30
Styrene	ND		50.0	50.0		ug/L		100	58 - 131	3	30
tert-Butylbenzene	ND		50.0	52.0		ug/L		104	54 - 146	2	30
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	52.7		ug/L		105	66 - 135	2	30
Tetrachloroethene	ND		50.0	47.9		ug/L		96	52 - 133	2	30
Toluene	ND		50.0	50.4		ug/L		101	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	48.5		ug/L		97	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	44.9		ug/L		90	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	44.6		ug/L		89	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	47.7		ug/L		95	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	52.2		ug/L		104	66 - 131	2	30
Trichloroethene	ND		50.0	53.0		ug/L		106	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	46.2		ug/L		92	54 - 156	10	30
1,2,3-Trichloropropane	ND		50.0	52.4		ug/L		105	65 - 133	1	30
1,2,4-Trimethylbenzene	ND		50.0	46.4		ug/L		93	50 - 139	5	30
1,3,5-Trimethylbenzene	ND		50.0	50.3		ug/L		101	52 - 135	3	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 160	11	33
Vinyl chloride	ND		50.0	49.3		ug/L		99	46 - 152	9	30
Xylenes, Total	ND		100	97.8		ug/L		98	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzenethiol	ND		10	1.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 11:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 11:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 11:56	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2-Fluorophenol	*59*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Nitrobenzene-d5	*127*	*X*	*27 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Phenol-d5	*87*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Terphenyl-d14	*83*		*53 - 125*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/11/16 09:31*	*10/13/16 11:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 17:40	1

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	22.9		ug/L		76	10 - 145
Benzenethiol	100	12.3	*	ug/L		12	20 - 150
Benzoic acid	126	107		ug/L		85	10 - 120
Benzyl alcohol	30.0	25.7		ug/L		86	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	27.7		ug/L		92	47 - 120
bis (2-chloroisopropyl) ether	30.0	28.2		ug/L		94	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.9		ug/L		93	62 - 140
4-Bromophenyl phenyl ether	30.0	27.9		ug/L		93	62 - 132
Butyl benzyl phthalate	30.0	26.8		ug/L		89	51 - 150
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	27.3		ug/L		91	24 - 150
2-Chlorophenol	30.0	24.1		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.4		ug/L		98	61 - 133
Dibenz[a,h]acridine	30.0	32.6		ug/L		109	60 - 131
Dibenzofuran	30.0	27.7		ug/L		92	62 - 124
3,3'-Dichlorobenzidine	40.0	31.3		ug/L		78	16 - 167
2,4-Dichlorophenol	30.0	27.7		ug/L		92	52 - 125
Diethyl phthalate	30.0	27.4		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	25.7		ug/L		86	52 - 121
Dimethyl phthalate	30.0	28.2		ug/L		94	50 - 133
Di-n-butyl phthalate	30.0	27.5		ug/L		92	59 - 144
4,6-Dinitro-ortho-cresol	60.0	58.7		ug/L		98	46 - 136
2,4-Dinitrophenol	101	110		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	29.1		ug/L		97	54 - 141
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130
Di-n-octyl phthalate	30.0	29.4		ug/L		98	55 - 140
1,4-Dioxane	30.0	13.8		ug/L		46	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.5		ug/L		75	55 - 139
Hexachlorobenzene	30.0	29.3		ug/L		98	60 - 138
Hexachlorocyclopentadiene	30.0	22.4		ug/L		75	1 - 139
Hexachloroethane	30.0	18.0		ug/L		60	46 - 121
Indene	30.0	13.1		ug/L		44	17 - 141
Isophorone	30.0	24.0		ug/L		80	57 - 122
2-Methylphenol	30.0	28.3		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	17.5	J	ug/L		58	43 - 126
2-Nitroaniline	30.0	29.8		ug/L		99	52 - 135
3-Nitroaniline	30.0	22.7		ug/L		76	51 - 128
4-Nitroaniline	30.0	24.8		ug/L		83	38 - 141

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	30.0	23.9		ug/L		80	52 - 128
2-Nitrophenol	30.0	29.0		ug/L		97	47 - 129
4-Nitrophenol	60.0	54.4		ug/L		91	34 - 137
N-Nitrosodimethylamine	30.0	29.2		ug/L		97	21 - 134
N-Nitrosodiphenylamine	29.8	25.7		ug/L		86	10 - 185
Pentachlorophenol	60.0	51.8		ug/L		86	38 - 138
Phenol	30.0	25.8		ug/L		86	37 - 120
Pyridine	30.0	18.9		ug/L		63	10 - 127
Quinoline	30.0	28.4		ug/L		95	10 - 164
2,4,5-Trichlorophenol	30.0	30.5		ug/L		102	53 - 130
2,4,6-Trichlorophenol	30.0	27.6		ug/L		92	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*81*		*27 - 120*
Phenol-d5	*88*		*10 - 120*
Terphenyl-d14	*97*		*53 - 125*
2,4,6-Tribromophenol	*114*		*15 - 135*

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	30.0	24.0		ug/L		80	41 - 143

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		30.0	13.1		ug/L		44	10 - 143
Benzenethiol	ND	F1 *	100	ND	F1	ug/L		0	50 - 150
Benzoic acid	ND		126	79.9		ug/L		64	10 - 134
Benzyl alcohol	ND		30.0	19.8		ug/L		66	10 - 154
Bis(2-chloroethoxy)methane	ND		30.0	19.3		ug/L		64	14 - 147
Bis(2-chloroethyl)ether	ND		30.0	18.3		ug/L		61	28 - 130
bis (2-chloroisopropyl) ether	ND		30.0	16.0		ug/L		53	10 - 141
Bis(2-ethylhexyl) phthalate	ND	F2 F1	30.0	20.2		ug/L		67	43 - 160
4-Bromophenyl phenyl ether	ND		30.0	20.7		ug/L		69	26 - 159
Butyl benzyl phthalate	ND		30.0	19.5		ug/L		65	43 - 151
4-Chloroaniline	ND		30.0	10.9		ug/L		36	10 - 152
4-Chloro-3-methylphenol	ND		30.0	20.2		ug/L		67	17 - 156
2-Chloronaphthalene	ND		30.0	22.3		ug/L		74	10 - 155
2-Chlorophenol	ND		30.0	16.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		30.0	22.4		ug/L		75	25 - 161
Dibenz[a,h]acridine	ND	*	30.0	25.5		ug/L		85	42 - 147

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	ND		30.0	21.7		ug/L		72	18 - 157
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		30.0	19.4		ug/L		65	16 - 147
Diethyl phthalate	ND		30.0	18.4		ug/L		61	23 - 160
2,4-Dimethylphenol	ND		30.0	18.9		ug/L		63	25 - 146
Dimethyl phthalate	ND		30.0	19.2		ug/L		64	11 - 158
Di-n-butyl phthalate	ND		30.0	20.1		ug/L		67	28 - 162
4,6-Dinitro-ortho-cresol	ND		60.0	42.5		ug/L		71	10 - 168
2,4-Dinitrophenol	ND		101	79.1		ug/L		78	10 - 166
2,4-Dinitrotoluene	ND		30.0	23.2		ug/L		77	26 - 158
2,6-Dinitrotoluene	ND		30.0	22.3		ug/L		74	19 - 157
Di-n-octyl phthalate	ND		30.0	18.3		ug/L		61	42 - 150
1,4-Dioxane	ND		30.0	12.7		ug/L		42	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	17.2		ug/L		57	19 - 162
Hexachlorobenzene	ND		30.0	20.5		ug/L		68	45 - 145
Hexachlorocyclopentadiene	ND		30.0	13.3	J	ug/L		44	10 - 151
Hexachloroethane	ND		30.0	17.9		ug/L		60	29 - 130
Indene	ND		30.0	17.0		ug/L		57	22 - 130
Isophorone	ND	F2	30.0	18.8		ug/L		63	24 - 144
2-Methylphenol	ND		30.0	17.4		ug/L		58	22 - 130
3 & 4 Methylphenol	ND		30.0	16.2	J	ug/L		54	31 - 130
2-Nitroaniline	ND		30.0	22.5		ug/L		75	10 - 162
3-Nitroaniline	ND		30.0	13.2		ug/L		44	10 - 163
4-Nitroaniline	ND		30.0	16.9		ug/L		56	10 - 162
Nitrobenzene	ND	F2	30.0	19.0		ug/L		63	34 - 135
2-Nitrophenol	ND		30.0	21.1		ug/L		70	27 - 134
4-Nitrophenol	ND		60.0	37.7		ug/L		63	10 - 175
N-Nitrosodimethylamine	ND		30.0	17.7		ug/L		59	10 - 139
N-Nitrosodi-n-propylamine	ND	F2	30.0	17.4		ug/L		58	13 - 147
N-Nitrosodiphenylamine	ND	F2	29.8	9.77	J	ug/L		33	31 - 150
Pentachlorophenol	ND		60.0	46.0		ug/L		77	10 - 180
Phenol	ND		30.0	16.9		ug/L		56	23 - 130
Pyridine	ND		30.0	12.3		ug/L		41	10 - 130
Quinoline	ND		30.0	21.2		ug/L		71	10 - 180
2,4,5-Trichlorophenol	ND		30.0	21.4		ug/L		71	43 - 137
2,4,6-Trichlorophenol	ND		30.0	20.9		ug/L		70	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 120*
2-Fluorophenol	*46*		*10 - 120*
Nitrobenzene-d5	*65*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*61*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		30.0	11.4		ug/L		38	10 - 143	14	63
Benzenethiol	ND	F1 *	100	ND	F1	ug/L		0	50 - 150	NC	40
Benzoic acid	ND		126	85.7		ug/L		68	10 - 134	7	49
Benzyl alcohol	ND		30.0	21.8		ug/L		73	10 - 154	10	37
Bis(2-chloroethoxy)methane	ND		30.0	20.9		ug/L		70	14 - 147	8	70
Bis(2-chloroethyl)ether	ND		30.0	22.9		ug/L		76	28 - 130	22	42
bis (2-chloroisopropyl) ether	ND		30.0	22.4		ug/L		75	10 - 141	33	41
Bis(2-ethylhexyl) phthalate	ND	F2 F1	30.0	53.4	F1 F2	ug/L		178	43 - 160	90	35
4-Bromophenyl phenyl ether	ND		30.0	24.0		ug/L		80	26 - 159	15	30
Butyl benzyl phthalate	ND		30.0	23.2		ug/L		77	43 - 151	17	32
4-Chloroaniline	ND		30.0	10.1		ug/L		34	10 - 152	8	94
4-Chloro-3-methylphenol	ND		30.0	21.0		ug/L		70	17 - 156	4	40
2-Chloronaphthalene	ND		30.0	23.7		ug/L		79	10 - 155	6	29
2-Chlorophenol	ND		30.0	20.6		ug/L		69	19 - 130	23	42
4-Chlorophenyl phenyl ether	ND		30.0	25.2		ug/L		84	25 - 161	12	27
Dibenz[a,h]acridine	ND	*	30.0	26.1		ug/L		87	42 - 147	2	40
Dibenzofuran	ND		30.0	24.4		ug/L		81	18 - 157	12	29
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		30.0	19.9		ug/L		66	16 - 147	2	43
Diethyl phthalate	ND		30.0	20.5		ug/L		68	23 - 160	11	40
2,4-Dimethylphenol	ND		30.0	20.5		ug/L		68	25 - 146	8	47
Dimethyl phthalate	ND		30.0	20.5		ug/L		68	11 - 158	7	36
Di-n-butyl phthalate	ND		30.0	23.4		ug/L		78	28 - 162	15	32
4,6-Dinitro-ortho-cresol	ND		60.0	40.2		ug/L		67	10 - 168	6	42
2,4-Dinitrophenol	ND		101	69.9		ug/L		69	10 - 166	12	36
2,4-Dinitrotoluene	ND		30.0	25.4		ug/L		85	26 - 158	9	28
2,6-Dinitrotoluene	ND		30.0	24.2		ug/L		81	19 - 157	8	28
Di-n-octyl phthalate	ND		30.0	23.8		ug/L		79	42 - 150	26	35
1,4-Dioxane	ND		30.0	12.2		ug/L		41	10 - 130	4	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	19.8		ug/L		66	19 - 162	14	40
Hexachlorobenzene	ND		30.0	24.5		ug/L		82	45 - 145	18	33
Hexachlorocyclopentadiene	ND		30.0	13.5	J	ug/L		45	10 - 151	1	50
Hexachloroethane	ND		30.0	23.2		ug/L		77	29 - 130	26	41
Indene	ND		30.0	22.2		ug/L		74	22 - 130	27	40
Isophorone	ND	F2	30.0	30.4	F2	ug/L		101	24 - 144	47	33
2-Methylphenol	ND		30.0	20.5		ug/L		68	22 - 130	17	47
3 & 4 Methylphenol	ND		30.0	20.4		ug/L		68	31 - 130	23	47
2-Nitroaniline	ND		30.0	24.2		ug/L		81	10 - 162	8	33
3-Nitroaniline	ND		30.0	13.4		ug/L		45	10 - 163	2	39
4-Nitroaniline	ND		30.0	18.0		ug/L		60	10 - 162	7	50
Nitrobenzene	ND	F2	30.0	32.1	F2	ug/L		107	34 - 135	51	35
2-Nitrophenol	ND		30.0	23.5		ug/L		78	27 - 134	11	43
4-Nitrophenol	ND		60.0	34.9		ug/L		58	10 - 175	8	82
N-Nitrosodimethylamine	ND		30.0	23.0		ug/L		77	10 - 139	26	62
N-Nitrosodi-n-propylamine	ND	F2	30.0	25.6	F2	ug/L		85	13 - 147	38	36
N-Nitrosodiphenylamine	ND	F2	29.8	16.8	F2	ug/L		57	31 - 150	53	34
Pentachlorophenol	ND		60.0	53.1		ug/L		89	10 - 180	14	42

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND		30.0	16.0		ug/L		53	23 - 130	5	52
Pyridine	ND		30.0	10.9		ug/L		36	10 - 130	12	55
Quinoline	ND		30.0	14.7		ug/L		49	10 - 180	36	40
2,4,5-Trichlorophenol	ND		30.0	22.1		ug/L		74	43 - 137	3	42
2,4,6-Trichlorophenol	ND		30.0	21.4		ug/L		71	42 - 135	3	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol	*55*		*10 - 120*
Nitrobenzene-d5	*107*		*27 - 120*
Phenol-d5	*54*		*10 - 120*
Terphenyl-d14	*49*	*X*	*53 - 125*
2,4,6-Tribromophenol	*85*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/12/16 21:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*33 - 138*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
2-Fluorobiphenyl	*58*		*15 - 122*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
Nitrobenzene-d5	*58*		*19 - 130*	*10/11/16 09:31*	*10/12/16 21:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.2		ug/L		91	41 - 120
Acenaphthylene	30.0	0.274	J *	ug/L		0.9	44 - 120
Anthracene	30.0	28.0		ug/L		93	49 - 120
Benzo[a]anthracene	30.0	26.9		ug/L		90	61 - 135
Benzo[a]pyrene	30.0	26.8		ug/L		89	52 - 120
Benzo[b]fluoranthene	30.0	27.5		ug/L		92	53 - 134
Benzo[g,h,i]perylene	30.0	27.9		ug/L		93	47 - 133
Benzo[k]fluoranthene	30.0	27.5		ug/L		92	57 - 134
Chrysene	30.0	27.1		ug/L		90	55 - 122
Dibenz(a,h)anthracene	30.0	29.1		ug/L		97	48 - 146
Fluoranthene	30.0	29.2		ug/L		97	54 - 128
Fluorene	30.0	28.5		ug/L		95	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	28.4		ug/L		95	43 - 142
Phenanthrene	30.0	27.7		ug/L		92	48 - 120
Pyrene	30.0	25.8		ug/L		86	48 - 132
1-Methylnaphthalene	30.0	23.4		ug/L		78	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*86*		*33 - 138*
2-Fluorobiphenyl	*87*		*15 - 122*
Nitrobenzene-d5	*73*		*19 - 130*

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		30.0	27.7		ug/L		92	35 - 113
Acenaphthylene	ND	* F1	30.0	9.41	F1	ug/L		31	41 - 118
Anthracene	ND		30.0	25.4		ug/L		85	45 - 122
Benzo[a]anthracene	ND		30.0	22.3		ug/L		74	55 - 133
Benzo[a]pyrene	ND		30.0	19.9		ug/L		66	50 - 108
Benzo[b]fluoranthene	ND		30.0	21.9		ug/L		73	50 - 128
Benzo[g,h,i]perylene	ND		30.0	21.0		ug/L		70	46 - 133
Benzo[k]fluoranthene	ND		30.0	21.7		ug/L		72	52 - 128
Chrysene	ND		30.0	23.1		ug/L		77	52 - 116
Dibenz(a,h)anthracene	ND		30.0	21.3		ug/L		71	52 - 143
Fluoranthene	ND		30.0	27.6		ug/L		92	32 - 150
Fluorene	ND		30.0	28.4		ug/L		95	15 - 150
Indeno[1,2,3-cd]pyrene	ND		30.0	21.0		ug/L		70	41 - 141
Phenanthrene	ND		30.0	28.1		ug/L		94	36 - 125
Pyrene	ND		30.0	25.5		ug/L		85	41 - 127
1-Methylnaphthalene	0.020	J	30.0	23.4		ug/L		78	10 - 150
2-Methylnaphthalene	0.024	J	30.0	23.3		ug/L		78	10 - 150

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*63*		*33 - 138*
2-Fluorobiphenyl	*90*		*15 - 122*
Nitrobenzene-d5	*77*		*19 - 130*

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		30.0	26.1		ug/L		87	35 - 113	6	49
Acenaphthylene	ND	* F1	30.0	11.0	F1	ug/L		37	41 - 118	16	48
Anthracene	ND		30.0	25.1		ug/L		84	45 - 122	1	56
Benzo[a]anthracene	ND		30.0	22.5		ug/L		75	55 - 133	1	57
Benzo[a]pyrene	ND		30.0	21.2		ug/L		71	50 - 108	6	59
Benzo[b]fluoranthene	ND		30.0	22.0		ug/L		73	50 - 128	0	62
Benzo[g,h,i]perylene	ND		30.0	22.1		ug/L		74	46 - 133	5	58
Benzo[k]fluoranthene	ND		30.0	22.7		ug/L		76	52 - 128	4	58
Chrysene	ND		30.0	23.0		ug/L		77	52 - 116	0	59
Dibenz(a,h)anthracene	ND		30.0	23.1		ug/L		77	52 - 143	8	60
Fluoranthene	ND		30.0	27.0		ug/L		90	32 - 150	2	59
Fluorene	ND		30.0	27.2		ug/L		91	15 - 150	4	49
Indeno[1,2,3-cd]pyrene	ND		30.0	22.4		ug/L		75	41 - 141	7	58
Phenanthrene	ND		30.0	26.6		ug/L		89	36 - 125	5	69
Pyrene	ND		30.0	24.1		ug/L		80	41 - 127	6	58
1-Methylnaphthalene	0.020	J	30.0	22.3		ug/L		74	10 - 150	5	66
2-Methylnaphthalene	0.024	J	30.0	22.2		ug/L		74	10 - 150	5	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*45*		*33 - 138*
2-Fluorobiphenyl	*80*		*15 - 122*
Nitrobenzene-d5	*70*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-326785/1-A
Matrix: Water
Analysis Batch: 326958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/14/16 11:03	10/14/16 16:36	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/14/16 11:03	10/14/16 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*51 - 149*	*10/14/16 11:03*	*10/14/16 16:36*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCS 400-326785/2-A
Matrix: Water
Analysis Batch: 326958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0746		ug/L		75	60 - 140
1,2-Dibromoethane	0.100	0.0910		ug/L		91	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*51 - 149*

Lab Sample ID: LCSD 400-326785/3-A
Matrix: Water
Analysis Batch: 326958

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0686		ug/L		69	60 - 140	8	30
1,2-Dibromoethane	0.100	0.0924		ug/L		92	60 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 136-599 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES

Print Bill To Contact Name: Bob Billman

PO #: 60477387 - 1.03.004 / 1.03.0044

PlaNet Site or Project ID: 25278

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 6 Oct. 2016

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID:

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): J. CLARK / L. RATHNOW / D. HAKEL

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Cc To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- Please include "J" values on Reports
- Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044

NON-UNIT COST 60477387 - 1.03.004

400-128414 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-100616-8011	10/6/16	0000	WATER	2					2	X			
	TB-ROX-100616-8260	"	0000	"	2					2			X	
	MW4-ROX-100616		1030		4			2		6	X	X	X	X
	MW25-ROX-100616		1145		4			2		6	X	X	X	X
	MW8-ROX-100616		1350		4			2		6	X	X	X	X
	MW7-ROX-100616		1505		4			2		6	X	X	X	X
	MW7-ROX-100616-DUP		1505		4			2		6	X	X	X	X

D. Hakel 6 Oct. 2016

Relinquished by: (Signature) D. Hakel — Received by: — Date: 6 Oct. 2016 — Time: 1730

Relinquished by: (Signature) — Received by — Date: — Time:

Relinquished by: (Signature) — Received by — Date: 10/07/16 — Time: 0912

Ref: S400-53959
Dep:
Date: 18Mar16
Wgt: 10.00 LBS
DV:
Svcs: PRIORITY OVERNIGHT
TRCK: 6546 8383 9262

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
0.00 TOTAL: 0.00

Version: 14Dec15

0.0°C, 1.0°, 4.0°C JRS

12/5/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128414-1
SDG Number: 60477387-1.03.004/1.03.0044

Login Number: 128414
List Number: 1
Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 1.0°C, 4.0°C IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128414-1
SDG: 60477387-1.03.004/1.03.0044

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128416-1-R2

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/2/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-BP-100716-8011	TB-ROX-BP-100716-8260
MW23-ROX-100716	

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 several LCS recoveries were outside evaluation criteria. The SVOC surrogate recovery for terphenyl-d_{14} was outside criteria in matrix spike duplicate MW23-ROX-100716-MSD. Method 8260 VOC, Method 8011 VOCs, Method 8270 SVOC, and Method 8270_LL PAH MS/MSD recoveries and RPDs were outside evaluation criteria in sample MW23-ROX-100716. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in sample MW23-ROX-100716. These issues are addressed further in the appropriate sections below. Additionally, the laboratory report was revised on October 28, 2016 to correct the sample ID of MW23-ROX-100716 to reflect the COC designation; no qualification of data was required. The laboratory report was also revised on November 2, 2016 to elaborate on PAH QC recoveries; please see Sections 5.0 and 7.0 of this review.

Additionally, the continuing calibration verification for acetone and 4-methyl-2-pentanone (MIBK) exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that five of five coolers were received by the laboratory at temperatures of 0.0°C, 0.9°C, 1.2°C, 1.5°C and 1.9°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS Recovery	LCS Criteria
LCS 400-327297/1003	VOCs	Acrylonitrile	**148**	64-142
LCS 400-327297/1003	VOCs	2-Hexanone	**146**	65-137
LCS 400-327297/1003	VOCs	4-Methyl-2-pentanone (MIBK)	**158**	69-138
LCS 400-326226/2-A	SVOCs	Benzenethiol	**12**	20-150
LCS 400-326226/2-A	PAHs	Acenaphthylene	**0.9**	44-120

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. Professional judgment was used to qualify, however not reject, data associated with acenaphthylene in LCS 400-326226/2-A; the sample in question was itself spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criterion).

Sample ID	Parameter	Analyte	Qualification
MW23-ROX-100716	PAHs	Acenaphthylene	**UJ**
MW23-ROX-100716	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW23-ROX-100716-MSD	SVOCs	Terphenyl-d_{14}	**49**	53-125

MW23-ROX-100716 MSD is a quality control sample, and does not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, sample MW23-ROX-100716 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW23-ROX-100716	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW23-ROX-100716	VOCs	4-Methyl-2-pentanone (MIBK)	**152/152**	0	63-146/30
MW23-ROX-100716	SVOCs	Benzenethiol	**0/0**	**NC**	50-150/40
MW23-ROX-100716	SVOCs	Bis(2-ethylhexyl) phthalate	67/**178**	**90**	43-160/35
MW23-ROX-100716	SVOCs	3,3'-Dichlorobenzidine	**0/0**	**NC**	10-172/58
MW23-ROX-100716	SVOCs	Isophorone	63/101	**47**	24-144/33
MW23-ROX-100716	SVOCs	Nitrobenzene	63/107	**51**	34-135/35
MW23-ROX-100716	SVOCs	N-Nitrosodiphenylamine	33/57	**53**	31-150/34
MW23-ROX-100716	PAHs	Acenaphthylene	**31/37**	16	41-118/48
MW23-ROX-100716	VOCs by 8011	1,2-Dibromo-3-Chloropropane	101/**50**	3	65-135/20
MW23-ROX-100716	VOCs by 8011	1,2-Dibromoethane	96/**56**	19	65-135/20

LCS/LCSD recoveries were within evaluation criteria, with the exception of those analytes listed in Section 5.0 of this review; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
MW23-ROX-100716	SVOCs	Perylene-d_{12}	**222690**	228515-914058

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below.

Sample ID	Parameter	Analyte	Qualification
MW23-ROX-100716	SVOCs	Dibenz[a,h]acridine	**UJ**
MW23-ROX-100716	SVOCs	Di-n-octyl phthalate	**UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

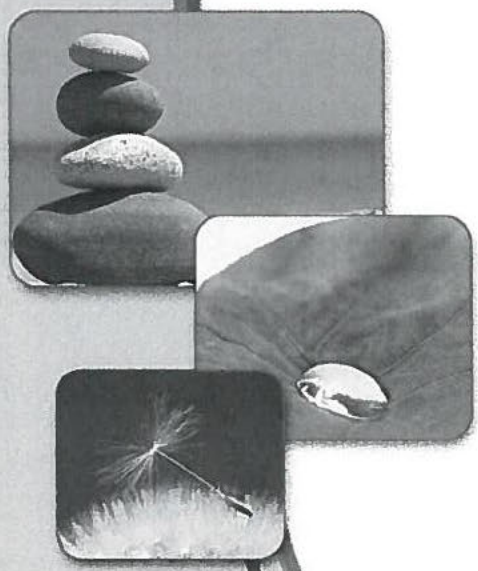
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128416-1
TestAmerica SDG: 60477387-1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY GW (4Q16)
Revision: 2

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn K. Hooper

Authorized for release by:
11/2/2016 6:44:16 PM

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Reviewed 11/2/2016 MH

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128416-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128416-1

Receipt
The samples were received on 10/8/2016 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.0°C, 0.9°C, 1.2°C, 1.5°C and 1.9°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-327297 recovered above the upper control limit for Acetone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 400-327297 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) recovered below the reporting limit (RL) for 2-chloroethyl vinyl ether for batch 327297 due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 327297 was not calculable for 2-chloroethyl vinyl ether due to the recovery being below the reporting limit (RL).

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-BP-100716-8260 (400-128416-2) and MW23-ROX-BP-100716 (400-128416-3). The requested target analytes list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327297 were outside control limits for 4-Methyl-2-pentanone (MIBK) due to high bias for this analyte on this day of analysis.

GC/MS Semi VOA
Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-326226 and analytical batch 400-326587 recovered outside control limits for the following analyte: Phenylmercaptan. Phenylmercaptan has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-326226 and analytical batch 400-326587 were outside control limits. Sample matrix interference is suspected.

Surrogate recovery for the following sample was outside control limits: MW23-ROX-BP-100716-MSD (400-128416-3[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D LL: The following analyte recovered outside control limits for the LCS, MS &MSD associated with preparation batch 400-326226 and analytical batch 400-326641: Acenaphthylene. Although the minimal recovery of Acenapthylene in the LCS would typically warrant corrective action, the sample in question was itself spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criteria). Qualified results have been reported.

GC Semi VOA
Method 8011: The matrix spike duplicate (MSD) recoveries for preparation batch 400-326420 and analytical batch 400-326585 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 400-128416-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Revision 1
This report has been revised to remove "BP" from the sample description for MW23.

Revision 2
This report has been revised per client request to elaborate further on Method 8270D LL recovery issues. Please see paragraph above for Method 8270D LL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128416-1	TB-ROX-BP-100716-8011	Water	10/07/16 00:00	10/08/16 09:05
400-128416-2	TB-ROX-BP-100716-8260	Water	10/07/16 00:00	10/08/16 09:05
400-128416-3	MW23-ROX-100716	Water	10/07/16 09:30	10/08/16 09:05

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-BP-100716-8011 — Lab Sample ID: 400-128416-1

No Detections.

Client Sample ID: TB-ROX-BP-100716-8260 — Lab Sample ID: 400-128416-2

No Detections.

Client Sample ID: MW23-ROX-100716 — Lab Sample ID: 400-128416-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.0		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.020	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.024	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-BP-100716-8011
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/12/16 10:34	10/13/16 02:59	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/12/16 10:34	10/13/16 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*61*		*51 - 149*	*10/12/16 10:34*	*10/13/16 02:59*	*1*

Client Sample ID: TB-ROX-BP-100716-8260
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 13:00	1
Acrolein	ND		20	10	ug/L			10/19/16 13:00	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 13:00	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 13:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 13:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 13:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 13:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 13:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 13:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 13:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 13:00	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 13:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 13:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 13:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 13:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 13:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 13:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 13:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 13:00	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 13:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 13:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 13:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 13:00	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 13:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 13:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 13:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 13:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 13:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 13:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 13:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 13:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 13:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 13:00	1

Client Sample ID: TB-ROX-BP-100716-8260
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 13:00	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 13:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 13:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 13:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 13:00	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 13:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 13:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 13:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 13:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 13:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 13:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 13:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 13:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 13:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 13:00	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/19/16 13:00*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/19/16 13:00*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 13:00*	*1*

Client Sample ID: MW23-ROX-100716

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 09:23	1
Acrolein	ND		20	10	ug/L			10/19/16 09:23	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 09:23	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 09:23	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 09:23	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 09:23	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 09:23	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 09:23	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 09:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 09:23	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/19/16 09:23	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 09:23	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 09:23	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 09:23	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 09:23	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 09:23	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 09:23	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 09:23	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 09:23	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 09:23	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 09:23	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 09:23	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 09:23	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 09:23	1
4-Methyl-2-pentanone (MIBK)	ND	F1 *	25	1.8	ug/L			10/19/16 09:23	1
Methyl tert-butyl ether	**1.0**		1.0	0.74	ug/L			10/19/16 09:23	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 09:23	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 09:23	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 09:23	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 09:23	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 09:23	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 09:23	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 09:23	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 09:23	1

Client Sample ID: MW23-ROX-100716

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 09:23	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 09:23	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 09:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 09:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 09:23	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 09:23	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 09:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 09:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 09:23	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 09:23	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 09:23	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 09:23	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 09:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 09:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 09:23	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 09:23	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 09:23	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 09:23*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/19/16 09:23*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/19/16 09:23*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Acenaphthylene	ND	F1 * UJ	0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Chrysene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Fluorene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/11/16 09:31	10/12/16 23:18	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
1-Methylnaphthalene	**0.020**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1
2-Methylnaphthalene	**0.024**	**J**	0.20	0.020	ug/L		10/11/16 09:31	10/12/16 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*51*		*33 - 138*	*10/11/16 09:31*	*10/12/16 23:18*	*1*
2-Fluorobiphenyl	*62*		*15 - 122*	*10/11/16 09:31*	*10/12/16 23:18*	*1*

Client Sample ID: MW23-ROX-100716

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*19 - 130*	*10/11/16 09:31*	*10/12/16 23:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/11/16 09:31	10/13/16 16:02	1
Benzenethiol	ND	F1 UJ	9.8	1.7	ug/L		10/11/16 09:31	10/13/16 16:02	1
Benzoic acid	ND		29	7.1	ug/L		10/11/16 09:31	10/13/16 16:02	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/11/16 09:31	10/13/16 16:02	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/11/16 09:31	10/13/16 16:02	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/11/16 09:31	10/13/16 16:02	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/11/16 09:31	10/13/16 16:02	1
Bis(2-ethylhexyl) phthalate	ND	F1 F2	9.8	2.2	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/11/16 09:31	10/13/16 16:02	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/11/16 09:31	10/13/16 16:02	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/11/16 09:31	10/13/16 16:02	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/11/16 09:31	10/13/16 16:02	1
Dibenz[a,h]acridine	ND	* UJ	9.8	2.9	ug/L		10/11/16 09:31	10/13/16 16:02	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/11/16 09:31	10/13/16 16:02	1
3,3'-Dichlorobenzidine	ND	F1	9.8	2.5	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/11/16 09:31	10/13/16 16:02	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/11/16 09:31	10/13/16 16:02	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/11/16 09:31	10/13/16 16:02	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/11/16 09:31	10/13/16 16:02	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/11/16 09:31	10/13/16 16:02	1
Di-n-octyl phthalate	ND	UJ	9.8	0.43	ug/L		10/11/16 09:31	10/13/16 16:02	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/11/16 09:31	10/13/16 16:02	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/11/16 09:31	10/13/16 16:02	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/11/16 09:31	10/13/16 16:02	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/11/16 09:31	10/13/16 16:02	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/11/16 09:31	10/13/16 16:02	1
Indene	ND		9.8	0.98	ug/L		10/11/16 09:31	10/13/16 16:02	1
Isophorone	ND	F2	9.8	0.56	ug/L		10/11/16 09:31	10/13/16 16:02	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/11/16 09:31	10/13/16 16:02	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 16:02	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/11/16 09:31	10/13/16 16:02	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/11/16 09:31	10/13/16 16:02	1
Nitrobenzene	ND	F2	9.8	0.54	ug/L		10/11/16 09:31	10/13/16 16:02	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/11/16 09:31	10/13/16 16:02	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/11/16 09:31	10/13/16 16:02	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/11/16 09:31	10/13/16 16:02	1

Client Sample ID: MW23-ROX-100716
Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/11/16 09:31	10/17/16 18:42	1
N-Nitrosodiphenylamine	ND	F2	9.8	0.46	ug/L		10/11/16 09:31	10/13/16 16:02	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 16:02	1
Phenol	ND		9.8	2.5	ug/L		10/11/16 09:31	10/13/16 16:02	1
Pyridine	ND		9.8	3.1	ug/L		10/11/16 09:31	10/13/16 16:02	1
Quinoline	ND		9.8	5.9	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/11/16 09:31	10/13/16 16:02	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/11/16 09:31	10/13/16 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*34 - 120*	*10/11/16 09:31*	*10/13/16 16:02*	*1*
2-Fluorophenol	*49*		*10 - 120*	*10/11/16 09:31*	*10/13/16 16:02*	*1*
Nitrobenzene-d5	*93*		*27 - 120*	*10/11/16 09:31*	*10/13/16 16:02*	*1*
Phenol-d5	*68*		*10 - 120*	*10/11/16 09:31*	*10/13/16 16:02*	*1*
Terphenyl-d14	*82*		*53 - 125*	*10/11/16 09:31*	*10/13/16 16:02*	*1*
2,4,6-Tribromophenol	*96*		*15 - 135*	*10/11/16 09:31*	*10/13/16 16:02*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	F1	0.030	0.0055	ug/L		10/12/16 10:34	10/13/16 03:59	1
1,2-Dibromoethane	ND	F1	0.020	0.0050	ug/L		10/12/16 10:34	10/13/16 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*		*51 - 149*	*10/12/16 10:34*	*10/13/16 03:59*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128416-2	TB-ROX-BP-100716-8260	92	100	91
400-128416-3	MW23-ROX-100716	90	98	94
400-128416-3 MS	MW23-ROX-100716-MS	97	93	98
400-128416-3 MSD	MW23-ROX-100716-MSD	98	95	97
LCS 400-327297/1003	Lab Control Sample	98	93	97
MB 400-327297/5	Method Blank	90	99	91

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128416-3	MW23-ROX-100716	85	49	93	68	82	96
400-128416-3 MS	MW23-ROX-100716-MS	71	46	65	60	61	89
400-128416-3 MSD	MW23-ROX-100716-MSD	74	55	107	54	49 X	85
LCS 400-326226/2-A	Lab Control Sample	92	71	81	88	97	114
MB 400-326226/1-A	Method Blank	90	59		87	83	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128416-3	MW23-ROX-100716	51	62	64
400-128416-3 MS	MW23-ROX-100716-MS	63	90	77
400-128416-3 MSD	MW23-ROX-100716-MSD	45	80	70
LCS 400-326226/2-A	Lab Control Sample	86	87	73
MB 400-326226/1-A	Method Blank	61	58	58

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	**Client Sample ID**	**(51-149)**
400-128416-1	TB-ROX-BP-100716-8011	61
400-128416-3	MW23-ROX-100716	121
400-128416-3 MS	MW23-ROX-100716-MS	109
400-128416-3 MSD	MW23-ROX-100716-MSD	58
LCS 400-326420/2-A	Lab Control Sample	122
MB 400-326420/1-A	Method Blank	128

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-BP-100716-8011

Lab Sample ID: 400-128416-1
Matrix: Water
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.8 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/13/16 02:59	KH1	TAL PEN

Client Sample ID: TB-ROX-BP-100716-8260

Lab Sample ID: 400-128416-2
Matrix: Water
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 13:00	CS	TAL PEN

Client Sample ID: MW23-ROX-100716

Lab Sample ID: 400-128416-3
Matrix: Water
Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 09:23	CS	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326985	10/17/16 18:42	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 16:02	KJA	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326641	10/12/16 23:18	VC1	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/13/16 03:59	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 11:56	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326641	10/12/16 21:46	VC1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-326420/1-A
Matrix: Water
Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/12/16 17:03	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327297/5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 08:35	CS	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-326226/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 12:26	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:10	VC1	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-326420/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/12/16 17:33	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327297/1003

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 07:46	CS	TAL PEN

Client Sample ID: MW23-ROX-100716-MS

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3 MS

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 11:47	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326985	10/17/16 19:15	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 20:05	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:32	VC1	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/13/16 04:28	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW23-ROX-100716-MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128416-3 MSD

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 12:11	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326985	10/17/16 19:48	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 15:32	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:55	VC1	TAL PEN
Total/NA	Prep	8011			34.2 mL	35 mL	326420	10/12/16 10:34	KH1	TAL PEN
Total/NA	Analysis	8011		1			326585	10/13/16 04:58	KH1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-2	TB-ROX-BP-100716-8260	Total/NA	Water	8260B	
400-128416-3	MW23-ROX-100716	Total/NA	Water	8260B	
MB 400-327297/5	Method Blank	Total/NA	Water	8260B	
LCS 400-327297/1003	Lab Control Sample	Total/NA	Water	8260B	
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8260B	
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 326226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-3	MW23-ROX-100716	Total/NA	Water	3520C	
MB 400-326226/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	3520C	
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	3520C	
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	3520C	

Analysis Batch: 326587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-3	MW23-ROX-100716	Total/NA	Water	8270D	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D	326226
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8270D	326226
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8270D	326226

Analysis Batch: 326641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-3	MW23-ROX-100716	Total/NA	Water	8270D LL	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D LL	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D LL	326226
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8270D LL	326226
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8270D LL	326226

Analysis Batch: 326985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-3	MW23-ROX-100716	Total/NA	Water	8270D	326226
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8270D	326226
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8270D	326226

GC Semi VOA

Prep Batch: 326420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-1	TB-ROX-BP-100716-8011	Total/NA	Water	8011	
400-128416-3	MW23-ROX-100716	Total/NA	Water	8011	
MB 400-326420/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-326420/2-A	Lab Control Sample	Total/NA	Water	8011	
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8011	
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8011	

GC Semi VOA (Continued)

Analysis Batch: 326585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128416-1	TB-ROX-BP-100716-8011	Total/NA	Water	8011	326420
400-128416-3	MW23-ROX-100716	Total/NA	Water	8011	326420
MB 400-326420/1-A	Method Blank	Total/NA	Water	8011	326420
LCS 400-326420/2-A	Lab Control Sample	Total/NA	Water	8011	326420
400-128416-3 MS	MW23-ROX-100716-MS	Total/NA	Water	8011	326420
400-128416-3 MSD	MW23-ROX-100716-MSD	Total/NA	Water	8011	326420

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 08:35	1
Acrolein	ND		20	10	ug/L			10/19/16 08:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/19/16 08:35	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 08:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 08:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 08:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 08:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 08:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 08:35	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 08:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 08:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 08:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 08:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 08:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 08:35	1
2-Hexanone	ND		25	3.1	ug/L			10/19/16 08:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 08:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 08:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 08:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/19/16 08:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 08:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 08:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 08:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 08:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 08:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 08:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 08:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 08:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 08:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 08:35	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 08:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 08:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 08:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 08:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 08:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 08:35*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/19/16 08:35*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 08:35*	*1*

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	302		ug/L		151	43 - 160
Acrolein	500	549		ug/L		110	38 - 160
Acrylonitrile	500	739	*	ug/L		148	64 - 142
Benzene	50.0	55.6		ug/L		111	70 - 130
Bromobenzene	50.0	58.4		ug/L		117	70 - 132
Bromochloromethane	50.0	51.0		ug/L		102	70 - 130
Bromodichloromethane	50.0	50.4		ug/L		101	67 - 133
Bromoform	50.0	50.6		ug/L		101	57 - 140
Bromomethane	50.0	32.9		ug/L		66	10 - 160
2-Butanone (MEK)	200	226		ug/L		113	61 - 145
Carbon disulfide	50.0	51.9		ug/L		104	61 - 137
Carbon tetrachloride	50.0	48.8		ug/L		98	61 - 137
Chlorobenzene	50.0	56.0		ug/L		112	70 - 130
Dibromochloromethane	50.0	52.3		ug/L		105	67 - 135
Chloroethane	50.0	47.0		ug/L		94	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	36.9		ug/L		74	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	61.0		ug/L		122	69 - 130
Chloromethane	50.0	56.1		ug/L		112	58 - 137
cis-1,2-Dichloroethene	50.0	57.9		ug/L		116	68 - 130
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	56.2		ug/L		112	67 - 130
1,3-Dichlorobenzene	50.0	57.4		ug/L		115	70 - 130
1,4-Dichlorobenzene	50.0	59.6		ug/L		119	70 - 130
Dichlorodifluoromethane	50.0	37.3		ug/L		75	41 - 146
1,1-Dichloroethane	50.0	57.2		ug/L		114	70 - 130
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	59.9		ug/L		120	70 - 130
1,3-Dichloropropane	50.0	55.6		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	46.1		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	51.9		ug/L		104	70 - 130
Ethylbenzene	50.0	55.4		ug/L		111	70 - 130
Ethyl methacrylate	50.0	56.1		ug/L		112	68 - 130
Hexachlorobutadiene	50.0	51.6		ug/L		103	53 - 140
2-Hexanone	200	293	*	ug/L		146	65 - 137
Isopropylbenzene	50.0	55.9		ug/L		112	70 - 130
Methylene bromide	50.0	51.8		ug/L		104	70 - 130
Methylene Chloride	50.0	53.3		ug/L		107	66 - 135
4-Methyl-2-pentanone (MIBK)	200	315	*	ug/L		158	69 - 138
Methyl tert-butyl ether	50.0	51.6		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	70 - 130
Naphthalene	50.0	54.8		ug/L		110	47 - 149
n-Butylbenzene	50.0	54.3		ug/L		109	67 - 130
N-Propylbenzene	50.0	56.5		ug/L		113	70 - 130
o-Chlorotoluene	50.0	52.5		ug/L		105	70 - 130
o-Xylene	50.0	54.0		ug/L		108	70 - 130
p-Chlorotoluene	50.0	54.1		ug/L		108	70 - 130
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	56.2		ug/L		112	66 - 130
Styrene	50.0	55.5		ug/L		111	70 - 130
tert-Butylbenzene	50.0	58.5		ug/L		117	64 - 139
1,1,1,2-Tetrachloroethane	50.0	55.1		ug/L		110	67 - 131
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	70 - 131
Tetrachloroethene	50.0	52.4		ug/L		105	65 - 130
Toluene	50.0	54.3		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 138
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	60 - 140
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	68 - 130
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	70 - 130
Trichloroethene	50.0	56.6		ug/L		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.7		ug/L		85	65 - 138
1,2,3-Trichloropropane	50.0	56.3		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	50.0	53.4		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	50.0	57.8		ug/L		116	69 - 130
Vinyl acetate	100	93.1		ug/L		93	26 - 160
Vinyl chloride	50.0	47.4		ug/L		95	59 - 136
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	215		ug/L		107	43 - 160
Acrolein	ND		500	549		ug/L		110	38 - 160
Acrylonitrile	ND	*	500	726		ug/L		145	62 - 149
Benzene	ND		50.0	53.5		ug/L		107	56 - 142
Bromobenzene	ND		50.0	53.5		ug/L		107	59 - 136
Bromochloromethane	ND		50.0	49.4		ug/L		99	64 - 140
Bromodichloromethane	ND		50.0	47.4		ug/L		95	59 - 143
Bromoform	ND		50.0	45.9		ug/L		92	50 - 140
Bromomethane	ND		50.0	30.0		ug/L		60	10 - 160
2-Butanone (MEK)	ND		200	204		ug/L		102	55 - 150
Carbon disulfide	ND		50.0	47.6		ug/L		95	48 - 152
Carbon tetrachloride	ND		50.0	45.6		ug/L		91	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	49.3		ug/L		99	56 - 143
Chloroethane	ND		50.0	45.9		ug/L		92	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141
1-Chlorohexane	ND		50.0	55.2		ug/L		110	56 - 136
Chloromethane	ND		50.0	50.7		ug/L		101	49 - 148
cis-1,2-Dichloroethene	ND		50.0	56.0		ug/L		112	59 - 143
cis-1,3-Dichloropropene	ND		50.0	50.9		ug/L		102	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.8		ug/L		102	52 - 137
1,3-Dichlorobenzene	ND		50.0	51.4		ug/L		103	54 - 135
1,4-Dichlorobenzene	ND		50.0	53.1		ug/L		106	53 - 135
Dichlorodifluoromethane	ND		50.0	32.2		ug/L		64	16 - 160
1,1-Dichloroethane	ND		50.0	54.4		ug/L		109	61 - 144
1,2-Dichloroethane	ND		50.0	50.0		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	44.6		ug/L		89	54 - 147
1,2-Dichloropropane	ND		50.0	57.9		ug/L		116	66 - 137
1,3-Dichloropropane	ND		50.0	54.1		ug/L		108	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.4		ug/L		87	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	51.7		ug/L		103	58 - 131
Ethyl methacrylate	ND		50.0	54.2		ug/L		108	64 - 130
Hexachlorobutadiene	ND		50.0	42.6		ug/L		85	31 - 149
2-Hexanone	ND	*	200	271		ug/L		136	65 - 140
Isopropylbenzene	ND		50.0	51.8		ug/L		104	56 - 133
Methylene bromide	ND		50.0	49.2		ug/L		98	63 - 138
Methylene Chloride	ND		50.0	50.4		ug/L		101	60 - 146
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146
Methyl tert-butyl ether	1.0		50.0	49.6		ug/L		97	59 - 137
m-Xylene & p-Xylene	ND		50.0	50.6		ug/L		101	57 - 130
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	47.7		ug/L		95	41 - 142
N-Propylbenzene	ND		50.0	50.8		ug/L		102	51 - 138
o-Chlorotoluene	ND		50.0	49.1		ug/L		98	53 - 134
o-Xylene	ND		50.0	50.7		ug/L		101	61 - 130
p-Chlorotoluene	ND		50.0	49.3		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	50.7		ug/L		101	48 - 139
sec-Butylbenzene	ND		50.0	49.5		ug/L		99	50 - 138
Styrene	ND		50.0	51.5		ug/L		103	58 - 131
tert-Butylbenzene	ND		50.0	53.3		ug/L		107	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	50.3		ug/L		101	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	53.8		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	48.9		ug/L		98	52 - 133
Toluene	ND		50.0	51.9		ug/L		104	65 - 130
trans-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.2		ug/L		92	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	47.6		ug/L		95	39 - 148
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	57 - 142
1,1,2-Trichloroethane	ND		50.0	53.1		ug/L		106	66 - 131
Trichloroethene	ND		50.0	53.7		ug/L		107	64 - 136
Trichlorofluoromethane	ND		50.0	41.9		ug/L		84	54 - 156
1,2,3-Trichloropropane	ND		50.0	53.1		ug/L		106	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	48.7		ug/L		97	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.8		ug/L		104	52 - 135
Vinyl acetate	ND		100	92.2		ug/L		92	26 - 160
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152
Xylenes, Total	ND		100	101		ug/L		101	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	221		ug/L		110	43 - 160	3	30
Acrolein	ND		500	605		ug/L		121	38 - 160	10	31
Acrylonitrile	ND	*	500	713		ug/L		143	62 - 149	2	30
Benzene	ND		50.0	52.8		ug/L		106	56 - 142	1	30
Bromobenzene	ND		50.0	50.6		ug/L		101	59 - 136	5	30
Bromochloromethane	ND		50.0	48.2		ug/L		96	64 - 140	2	30
Bromodichloromethane	ND		50.0	46.6		ug/L		93	59 - 143	2	30
Bromoform	ND		50.0	45.2		ug/L		90	50 - 140	2	30
Bromomethane	ND		50.0	39.6		ug/L		79	10 - 160	28	50
2-Butanone (MEK)	ND		200	203		ug/L		101	55 - 150	1	30
Carbon disulfide	ND		50.0	46.8		ug/L		94	48 - 152	2	30
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	55 - 145	1	30
Chlorobenzene	ND		50.0	50.8		ug/L		102	64 - 130	4	30
Dibromochloromethane	ND		50.0	48.5		ug/L		97	56 - 143	2	30
Chloroethane	ND		50.0	50.5		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.4		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	54.1		ug/L		108	56 - 136	2	30
Chloromethane	ND		50.0	55.2		ug/L		110	49 - 148	8	31
cis-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	57 - 140	0	30
1,2-Dichlorobenzene	ND		50.0	48.9		ug/L		98	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	49.6		ug/L		99	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	50.8		ug/L		102	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	36.3		ug/L		73	16 - 160	12	31
1,1-Dichloroethane	ND		50.0	52.9		ug/L		106	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	48.8		ug/L		98	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	43.8		ug/L		88	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	57.1		ug/L		114	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	43.5		ug/L		87	42 - 144	0	31
1,1-Dichloropropene	ND		50.0	49.2		ug/L		98	65 - 136	1	30
Ethylbenzene	ND		50.0	50.6		ug/L		101	58 - 131	2	30
Ethyl methacrylate	ND		50.0	52.9		ug/L		106	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	42.2		ug/L		84	31 - 149	1	36
2-Hexanone	ND	*	200	270		ug/L		135	65 - 140	1	30
Isopropylbenzene	ND		50.0	50.6		ug/L		101	56 - 133	2	30
Methylene bromide	ND		50.0	48.9		ug/L		98	63 - 138	1	30
Methylene Chloride	ND		50.0	49.3		ug/L		99	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146	0	30
Methyl tert-butyl ether	1.0		50.0	49.7		ug/L		97	59 - 137	0	30
m-Xylene & p-Xylene	ND		50.0	48.5		ug/L		97	57 - 130	4	30
Naphthalene	ND		50.0	49.2		ug/L		98	25 - 160	1	30
n-Butylbenzene	ND		50.0	45.2		ug/L		90	41 - 142	5	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	3	30
o-Chlorotoluene	ND		50.0	47.1		ug/L		94	53 - 134	4	30
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130	3	30
p-Chlorotoluene	ND		50.0	47.2		ug/L		94	54 - 133	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	48.6		ug/L		97	48 - 139	4	30
sec-Butylbenzene	ND		50.0	48.3		ug/L		97	50 - 138	2	30
Styrene	ND		50.0	50.0		ug/L		100	58 - 131	3	30
tert-Butylbenzene	ND		50.0	52.0		ug/L		104	54 - 146	2	30
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	52.7		ug/L		105	66 - 135	2	30
Tetrachloroethene	ND		50.0	47.9		ug/L		96	52 - 133	2	30
Toluene	ND		50.0	50.4		ug/L		101	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	48.5		ug/L		97	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	44.9		ug/L		90	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	44.6		ug/L		89	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	47.7		ug/L		95	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	52.2		ug/L		104	66 - 131	2	30
Trichloroethene	ND		50.0	53.0		ug/L		106	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	46.2		ug/L		92	54 - 156	10	30
1,2,3-Trichloropropane	ND		50.0	52.4		ug/L		105	65 - 133	1	30
1,2,4-Trimethylbenzene	ND		50.0	46.4		ug/L		93	50 - 139	5	30
1,3,5-Trimethylbenzene	ND		50.0	50.3		ug/L		101	52 - 135	3	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 160	11	33
Vinyl chloride	ND		50.0	49.3		ug/L		99	46 - 152	9	30
Xylenes, Total	ND		100	97.8		ug/L		98	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzenethiol	ND		10	1.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 11:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 11:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 11:56	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2-Fluorophenol	*59*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Phenol-d5	*87*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Terphenyl-d14	*83*		*53 - 125*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/11/16 09:31*	*10/13/16 11:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	22.9		ug/L		76	10 - 145
Benzenethiol	100	12.3	*	ug/L		12	20 - 150
Benzoic acid	126	107		ug/L		85	10 - 120
Benzyl alcohol	30.0	25.7		ug/L		86	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	27.7		ug/L		92	47 - 120
bis (2-chloroisopropyl) ether	30.0	28.2		ug/L		94	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.9		ug/L		93	62 - 140
4-Bromophenyl phenyl ether	30.0	27.9		ug/L		93	62 - 132
Butyl benzyl phthalate	30.0	26.8		ug/L		89	51 - 150
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	27.3		ug/L		91	24 - 150
2-Chlorophenol	30.0	24.1		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.4		ug/L		98	61 - 133
Dibenz[a,h]acridine	30.0	32.6		ug/L		109	60 - 131
Dibenzofuran	30.0	27.7		ug/L		92	62 - 124
3,3'-Dichlorobenzidine	40.0	31.3		ug/L		78	16 - 167
2,4-Dichlorophenol	30.0	27.7		ug/L		92	52 - 125
Diethyl phthalate	30.0	27.4		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	25.7		ug/L		86	52 - 121
Dimethyl phthalate	30.0	28.2		ug/L		94	50 - 133
Di-n-butyl phthalate	30.0	27.5		ug/L		92	59 - 144
4,6-Dinitro-ortho-cresol	60.0	58.7		ug/L		98	46 - 136
2,4-Dinitrophenol	101	110		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	29.1		ug/L		97	54 - 141
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130
Di-n-octyl phthalate	30.0	29.4		ug/L		98	55 - 140
1,4-Dioxane	30.0	13.8		ug/L		46	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.5		ug/L		75	55 - 139
Hexachlorobenzene	30.0	29.3		ug/L		98	60 - 138
Hexachlorocyclopentadiene	30.0	22.4		ug/L		75	1 - 139
Hexachloroethane	30.0	18.0		ug/L		60	46 - 121
Indene	30.0	13.1		ug/L		44	17 - 141
Isophorone	30.0	24.0		ug/L		80	57 - 122
2-Methylphenol	30.0	28.3		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	17.5	J	ug/L		58	43 - 126
2-Nitroaniline	30.0	29.8		ug/L		99	52 - 135
3-Nitroaniline	30.0	22.7		ug/L		76	51 - 128
4-Nitroaniline	30.0	24.8		ug/L		83	38 - 141
Nitrobenzene	30.0	23.9		ug/L		80	52 - 128
2-Nitrophenol	30.0	29.0		ug/L		97	47 - 129
4-Nitrophenol	60.0	54.4		ug/L		91	34 - 137
N-Nitrosodimethylamine	30.0	29.2		ug/L		97	21 - 134
N-Nitrosodiphenylamine	29.8	25.7		ug/L		86	10 - 185
Pentachlorophenol	60.0	51.8		ug/L		86	38 - 138
Phenol	30.0	25.8		ug/L		86	37 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	30.0	18.9		ug/L		63	10 - 127
Quinoline	30.0	28.4		ug/L		95	10 - 164
2,4,5-Trichlorophenol	30.0	30.5		ug/L		102	53 - 130
2,4,6-Trichlorophenol	30.0	27.6		ug/L		92	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*81*		*27 - 120*
Phenol-d5	*88*		*10 - 120*
Terphenyl-d14	*97*		*53 - 125*
2,4,6-Tribromophenol	*114*		*15 - 135*

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 326587

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		30.0	13.1		ug/L		44	10 - 143
Benzenethiol	ND	F1	100	ND	F1	ug/L		0	50 - 150
Benzoic acid	ND		126	79.9		ug/L		64	10 - 134
Benzyl alcohol	ND		30.0	19.8		ug/L		66	10 - 154
Bis(2-chloroethoxy)methane	ND		30.0	19.3		ug/L		64	14 - 147
Bis(2-chloroethyl)ether	ND		30.0	18.3		ug/L		61	28 - 130
bis (2-chloroisopropyl) ether	ND		30.0	16.0		ug/L		53	10 - 141
Bis(2-ethylhexyl) phthalate	ND	F1 F2	30.0	20.2		ug/L		67	43 - 160
4-Bromophenyl phenyl ether	ND		30.0	20.7		ug/L		69	26 - 159
Butyl benzyl phthalate	ND		30.0	19.5		ug/L		65	43 - 151
4-Chloroaniline	ND		30.0	10.9		ug/L		36	10 - 152
4-Chloro-3-methylphenol	ND		30.0	20.2		ug/L		67	17 - 156
2-Chloronaphthalene	ND		30.0	22.3		ug/L		74	10 - 155
2-Chlorophenol	ND		30.0	16.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		30.0	22.4		ug/L		75	25 - 161
Dibenz[a,h]acridine	ND	*	30.0	25.5		ug/L		85	42 - 147
Dibenzofuran	ND		30.0	21.7		ug/L		72	18 - 157
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		30.0	19.4		ug/L		65	16 - 147
Diethyl phthalate	ND		30.0	18.4		ug/L		61	23 - 160
2,4-Dimethylphenol	ND		30.0	18.9		ug/L		63	25 - 146
Dimethyl phthalate	ND		30.0	19.2		ug/L		64	11 - 158
Di-n-butyl phthalate	ND		30.0	20.1		ug/L		67	28 - 162
4,6-Dinitro-ortho-cresol	ND		60.0	42.5		ug/L		71	10 - 168
2,4-Dinitrophenol	ND		101	79.1		ug/L		78	10 - 166
2,4-Dinitrotoluene	ND		30.0	23.2		ug/L		77	26 - 158
2,6-Dinitrotoluene	ND		30.0	22.3		ug/L		74	19 - 157
Di-n-octyl phthalate	ND		30.0	18.3		ug/L		61	42 - 150
1,4-Dioxane	ND		30.0	12.7		ug/L		42	10 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MS — **Client Sample ID: MW23-ROX-100716-MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587 — **Prep Batch: 326226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	17.2		ug/L		57	19 - 162
Hexachlorobenzene	ND		30.0	20.5		ug/L		68	45 - 145
Hexachlorocyclopentadiene	ND		30.0	13.3	J	ug/L		44	10 - 151
Hexachloroethane	ND		30.0	17.9		ug/L		60	29 - 130
Indene	ND		30.0	17.0		ug/L		57	22 - 130
Isophorone	ND	F2	30.0	18.8		ug/L		63	24 - 144
2-Methylphenol	ND		30.0	17.4		ug/L		58	22 - 130
3 & 4 Methylphenol	ND		30.0	16.2	J	ug/L		54	31 - 130
2-Nitroaniline	ND		30.0	22.5		ug/L		75	10 - 162
3-Nitroaniline	ND		30.0	13.2		ug/L		44	10 - 163
4-Nitroaniline	ND		30.0	16.9		ug/L		56	10 - 162
Nitrobenzene	ND	F2	30.0	19.0		ug/L		63	34 - 135
2-Nitrophenol	ND		30.0	21.1		ug/L		70	27 - 134
4-Nitrophenol	ND		60.0	37.7		ug/L		63	10 - 175
N-Nitrosodimethylamine	ND		30.0	17.7		ug/L		59	10 - 139
N-Nitrosodiphenylamine	ND	F2	29.8	9.77	J	ug/L		33	31 - 150
Pentachlorophenol	ND		60.0	46.0		ug/L		77	10 - 180
Phenol	ND		30.0	16.9		ug/L		56	23 - 130
Pyridine	ND		30.0	12.3		ug/L		41	10 - 130
Quinoline	ND		30.0	21.2		ug/L		71	10 - 180
2,4,5-Trichlorophenol	ND		30.0	21.4		ug/L		71	43 - 137
2,4,6-Trichlorophenol	ND		30.0	20.9		ug/L		70	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 120*
2-Fluorophenol	*46*		*10 - 120*
Nitrobenzene-d5	*65*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*61*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: 400-128416-3 MS — **Client Sample ID: MW23-ROX-100716-MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326985 — **Prep Batch: 326226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	ND		30.0	19.4		ug/L		65	13 - 147

Lab Sample ID: 400-128416-3 MSD — **Client Sample ID: MW23-ROX-100716-MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587 — **Prep Batch: 326226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		30.0	11.4		ug/L		38	10 - 143	14	63
Benzenethiol	ND	F1	100	ND	F1	ug/L		0	50 - 150	NC	40
Benzoic acid	ND		126	85.7		ug/L		68	10 - 134	7	49
Benzyl alcohol	ND		30.0	21.8		ug/L		73	10 - 154	10	37

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	ND		30.0	20.9		ug/L		70	14 - 147	8	70
Bis(2-chloroethyl)ether	ND		30.0	22.9		ug/L		76	28 - 130	22	42
bis (2-chloroisopropyl) ether	ND		30.0	22.4		ug/L		75	10 - 141	33	41
Bis(2-ethylhexyl) phthalate	ND	F1 F2	30.0	53.4	F1 F2	ug/L		178	43 - 160	90	35
4-Bromophenyl phenyl ether	ND		30.0	24.0		ug/L		80	26 - 159	15	30
Butyl benzyl phthalate	ND		30.0	23.2		ug/L		77	43 - 151	17	32
4-Chloroaniline	ND		30.0	10.1		ug/L		34	10 - 152	8	94
4-Chloro-3-methylphenol	ND		30.0	21.0		ug/L		70	17 - 156	4	40
2-Chloronaphthalene	ND		30.0	23.7		ug/L		79	10 - 155	6	29
2-Chlorophenol	ND		30.0	20.6		ug/L		69	19 - 130	23	42
4-Chlorophenyl phenyl ether	ND		30.0	25.2		ug/L		84	25 - 161	12	27
Dibenz[a,h]acridine	ND	*	30.0	26.1		ug/L		87	42 - 147	2	40
Dibenzofuran	ND		30.0	24.4		ug/L		81	18 - 157	12	29
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		30.0	19.9		ug/L		66	16 - 147	2	43
Diethyl phthalate	ND		30.0	20.5		ug/L		68	23 - 160	11	40
2,4-Dimethylphenol	ND		30.0	20.5		ug/L		68	25 - 146	8	47
Dimethyl phthalate	ND		30.0	20.5		ug/L		68	11 - 158	7	36
Di-n-butyl phthalate	ND		30.0	23.4		ug/L		78	28 - 162	15	32
4,6-Dinitro-ortho-cresol	ND		60.0	40.2		ug/L		67	10 - 168	6	42
2,4-Dinitrophenol	ND		101	69.9		ug/L		69	10 - 166	12	36
2,4-Dinitrotoluene	ND		30.0	25.4		ug/L		85	26 - 158	9	28
2,6-Dinitrotoluene	ND		30.0	24.2		ug/L		81	19 - 157	8	28
Di-n-octyl phthalate	ND		30.0	23.8		ug/L		79	42 - 150	26	35
1,4-Dioxane	ND		30.0	12.2		ug/L		41	10 - 130	4	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	19.8		ug/L		66	19 - 162	14	40
Hexachlorobenzene	ND		30.0	24.5		ug/L		82	45 - 145	18	33
Hexachlorocyclopentadiene	ND		30.0	13.5	J	ug/L		45	10 - 151	1	50
Hexachloroethane	ND		30.0	23.2		ug/L		77	29 - 130	26	41
Indene	ND		30.0	22.2		ug/L		74	22 - 130	27	40
Isophorone	ND	F2	30.0	30.4	F2	ug/L		101	24 - 144	47	33
2-Methylphenol	ND		30.0	20.5		ug/L		68	22 - 130	17	47
3 & 4 Methylphenol	ND		30.0	20.4		ug/L		68	31 - 130	23	47
2-Nitroaniline	ND		30.0	24.2		ug/L		81	10 - 162	8	33
3-Nitroaniline	ND		30.0	13.4		ug/L		45	10 - 163	2	39
4-Nitroaniline	ND		30.0	18.0		ug/L		60	10 - 162	7	50
Nitrobenzene	ND	F2	30.0	32.1	F2	ug/L		107	34 - 135	51	35
2-Nitrophenol	ND		30.0	23.5		ug/L		78	27 - 134	11	43
4-Nitrophenol	ND		60.0	34.9		ug/L		58	10 - 175	8	82
N-Nitrosodimethylamine	ND		30.0	23.0		ug/L		77	10 - 139	26	62
N-Nitrosodiphenylamine	ND	F2	29.8	16.8	F2	ug/L		57	31 - 150	53	34
Pentachlorophenol	ND		60.0	53.1		ug/L		89	10 - 180	14	42
Phenol	ND		30.0	16.0		ug/L		53	23 - 130	5	52
Pyridine	ND		30.0	10.9		ug/L		36	10 - 130	12	55
Quinoline	ND		30.0	14.7		ug/L		49	10 - 180	36	40
2,4,5-Trichlorophenol	ND		30.0	22.1		ug/L		74	43 - 137	3	42
2,4,6-Trichlorophenol	ND		30.0	21.4		ug/L		71	42 - 135	3	44

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA
Prep Batch: 326226

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol	*55*		*10 - 120*
Nitrobenzene-d5	*107*		*27 - 120*
Phenol-d5	*54*		*10 - 120*
Terphenyl-d14	*49*	X	*53 - 125*
2,4,6-Tribromophenol	*85*		*15 - 135*

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 326985

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine	ND		30.0	20.9		ug/L		70	13 - 147	7	36

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/12/16 21:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*33 - 138*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
2-Fluorobiphenyl	*58*		*15 - 122*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
Nitrobenzene-d5	*58*		*19 - 130*	*10/11/16 09:31*	*10/12/16 21:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.2		ug/L		91	41 - 120
Acenaphthylene	30.0	0.274	J *	ug/L		0.9	44 - 120
Anthracene	30.0	28.0		ug/L		93	49 - 120
Benzo[a]anthracene	30.0	26.9		ug/L		90	61 - 135
Benzo[a]pyrene	30.0	26.8		ug/L		89	52 - 120
Benzo[b]fluoranthene	30.0	27.5		ug/L		92	53 - 134
Benzo[g,h,i]perylene	30.0	27.9		ug/L		93	47 - 133
Benzo[k]fluoranthene	30.0	27.5		ug/L		92	57 - 134
Chrysene	30.0	27.1		ug/L		90	55 - 122
Dibenz(a,h)anthracene	30.0	29.1		ug/L		97	48 - 146
Fluoranthene	30.0	29.2		ug/L		97	54 - 128
Fluorene	30.0	28.5		ug/L		95	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	28.4		ug/L		95	43 - 142
Phenanthrene	30.0	27.7		ug/L		92	48 - 120
Pyrene	30.0	25.8		ug/L		86	48 - 132
1-Methylnaphthalene	30.0	23.4		ug/L		78	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*86*		*33 - 138*
2-Fluorobiphenyl	*87*		*15 - 122*
Nitrobenzene-d5	*73*		*19 - 130*

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 326641

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		30.0	27.7		ug/L		92	35 - 113
Acenaphthylene	ND	F1 *	30.0	9.41	F1	ug/L		31	41 - 118
Anthracene	ND		30.0	25.4		ug/L		85	45 - 122
Benzo[a]anthracene	ND		30.0	22.3		ug/L		74	55 - 133
Benzo[a]pyrene	ND		30.0	19.9		ug/L		66	50 - 108
Benzo[b]fluoranthene	ND		30.0	21.9		ug/L		73	50 - 128
Benzo[g,h,i]perylene	ND		30.0	21.0		ug/L		70	46 - 133
Benzo[k]fluoranthene	ND		30.0	21.7		ug/L		72	52 - 128
Chrysene	ND		30.0	23.1		ug/L		77	52 - 116
Dibenz(a,h)anthracene	ND		30.0	21.3		ug/L		71	52 - 143
Fluoranthene	ND		30.0	27.6		ug/L		92	32 - 150
Fluorene	ND		30.0	28.4		ug/L		95	15 - 150
Indeno[1,2,3-cd]pyrene	ND		30.0	21.0		ug/L		70	41 - 141
Phenanthrene	ND		30.0	28.1		ug/L		94	36 - 125
Pyrene	ND		30.0	25.5		ug/L		85	41 - 127
1-Methylnaphthalene	0.020	J	30.0	23.4		ug/L		78	10 - 150
2-Methylnaphthalene	0.024	J	30.0	23.3		ug/L		78	10 - 150

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 326641

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA
Prep Batch: 326226

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	*63*		*33 - 138*
2-Fluorobiphenyl	*90*		*15 - 122*
Nitrobenzene-d5	*77*		*19 - 130*

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 326641

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		30.0	26.1		ug/L		87	35 - 113	6	49
Acenaphthylene	ND	F1 *	30.0	11.0	F1	ug/L		37	41 - 118	16	48
Anthracene	ND		30.0	25.1		ug/L		84	45 - 122	1	56
Benzo[a]anthracene	ND		30.0	22.5		ug/L		75	55 - 133	1	57
Benzo[a]pyrene	ND		30.0	21.2		ug/L		71	50 - 108	6	59
Benzo[b]fluoranthene	ND		30.0	22.0		ug/L		73	50 - 128	0	62
Benzo[g,h,i]perylene	ND		30.0	22.1		ug/L		74	46 - 133	5	58
Benzo[k]fluoranthene	ND		30.0	22.7		ug/L		76	52 - 128	4	58
Chrysene	ND		30.0	23.0		ug/L		77	52 - 116	0	59
Dibenz(a,h)anthracene	ND		30.0	23.1		ug/L		77	52 - 143	8	60
Fluoranthene	ND		30.0	27.0		ug/L		90	32 - 150	2	59
Fluorene	ND		30.0	27.2		ug/L		91	15 - 150	4	49
Indeno[1,2,3-cd]pyrene	ND		30.0	22.4		ug/L		75	41 - 141	7	58
Phenanthrene	ND		30.0	26.6		ug/L		89	36 - 125	5	69
Pyrene	ND		30.0	24.1		ug/L		80	41 - 127	6	58
1-Methylnaphthalene	0.020	J	30.0	22.3		ug/L		74	10 - 150	5	66
2-Methylnaphthalene	0.024	J	30.0	22.2		ug/L		74	10 - 150	5	66

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Terphenyl-d14	*45*		*33 - 138*
2-Fluorobiphenyl	*80*		*15 - 122*
Nitrobenzene-d5	*70*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-326420/1-A
Matrix: Water
Analysis Batch: 326585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/16 10:34	10/12/16 17:03	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/16 10:34	10/12/16 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*128*		*51 - 149*	*10/12/16 10:34*	*10/12/16 17:03*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCS 400-326420/2-A
Matrix: Water
Analysis Batch: 326585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0995		ug/L		100	60 - 140
1,2-Dibromoethane	0.100	0.110		ug/L		110	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*122*		*51 - 149*

Lab Sample ID: 400-128416-3 MS
Matrix: Water
Analysis Batch: 326585

Client Sample ID: MW23-ROX-100716-MS
Prep Type: Total/NA
Prep Batch: 326420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND	F1	0.0980	0.0994		ug/L		101	65 - 135
1,2-Dibromoethane	ND	F1	0.0980	0.0944		ug/L		96	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*51 - 149*

Lab Sample ID: 400-128416-3 MSD
Matrix: Water
Analysis Batch: 326585

Client Sample ID: MW23-ROX-100716-MSD
Prep Type: Total/NA
Prep Batch: 326420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND	F1	0.205	0.103	F1	ug/L		50	65 - 135	3	20
1,2-Dibromoethane	ND	F1	0.205	0.114	F1	ug/L		56	65 - 135	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*58*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER ENV. SERVICES

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 7 Oct 2016

PAGE: 1 of 1

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO:

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Josh Clark / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

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

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports
* Please provide sample receipt upon login

MW-23 BP

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044

NON-UNIT COST 60477387 - 1.03.004

400-128416 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-BP-100716-8011	10/7/16	0000	Water	2					2	X			
	TB-ROX-BP-100716-8260		0000		2					2			X	
	MW23-ROX-100716		0930		4			2		6	X	X	X	X
	MW23-ROX-100716-MS		0930		4			2		6	X	X	X	X
	MW23-ROX-100716-MSD		0930		4			2		6	X	X	X	X

7 Oct. 2016

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Ref: S400-52240 Date: 25Jan16 Wgt: 10.00 LBS Dep:

DV: 0.00

Svcs: PRIORITY OVERNIGHT TRCK: 6545 8382 3550

SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00

Ref: S400-52240 Date: 25Jan16 Wgt: 10.00 LBS Dep:

DV: 0.00

Svcs: PRIORITY OVERNIGHT TRCK: 6546 8382 3561

SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00

Date: 7 Oct. 2016 Time: 1730

Date: Time:

Date: Time:

Version: 14Dec15

10/7/16 905

0.0°C, 0.2, 1.2 1.9 1.5

Page 39 of 41

11/2/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128416-1
SDG Number: 60477387-1.03.0044/1.03.004

Login Number: 128416
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C,0.9°C,1.2°C-IR6 1.9°C,1.5°C-IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128416-1
SDG: 60477387-1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128424-1-R1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/5/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-100716-8011	TB-ROX-100716-8260
P114R-ROX-100716	MW13-ROX-100716-EB
MW13-ROX-100716	MW3-ROX-100716

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, diethyl phthalate and di-n-octyl phthalate were detected in the equipment blank. The laboratory case narrative indicated several LCS recoveries were outside evaluation criteria. The SVOC surrogate recovery for terphenyl-d_{14} was outside criteria in sample P114R-ROX-100716, and the SVOC surrogate recovery for nitrobenzene-d_5 was outside evaluation criteria in the SVOC method blank. Method 8260 VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample P114R-ROX-100716. These issues are addressed further in the appropriate sections below. The laboratory report was also revised on December 5, 2016 to elaborate on PAH QC recoveries; please see Section 5.0 of this review.

Additionally, the continuing calibration verification for acetone and 4-methyl-2-pentanone (MIBK) exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that five of five coolers were received by the laboratory at temperatures of 0.0°C, 0.9°C, 1.2°C, 1.5°C and 1.9°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MW13-ROX-100716-EB	SVOCs	Diethyl phthalate	1.6 µg/L
MW13-ROX-100716-EB	SVOCs	Di-n-octyl phthalate	0.52 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 Recovery	LCS Criteria
LCS 400-327297/1003	VOCs	Acrylonitrile	**148**	64-142
LCS 400-327297/1003	VOCs	2-Hexanone	**146**	65-137
LCS 400-327297/1003	VOCs	4-Methyl-2-pentanone (MIBK)	**158**	69-138
LCS 400-326226/2-A	SVOCs	Benzenethiol	**12**	20-150
LCS 400-326226/2-A	PAHs	Acenaphthylene	**0.9**	44-120

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. Professional judgment was used to qualify, however not reject, data associated with acenaphthylene in LCS 400-326226/2-A; samples in question were spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criterion).

Sample ID	Parameter	Analyte	Qualification
P114R-ROX-100716	PAHs	Acenaphthylene	**UJ**
P114R-ROX-100716	SVOCs	Benzenethiol	**UJ**
MW13-ROX-100716	PAHs	Acenaphthylene	**UJ**
MW13-ROX-100716	SVOCs	Benzenethiol	**UJ**
MW3-ROX-100716	PAHs	Acenaphthylene	**UJ**
MW3-ROX-100716	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P114R-ROX-100716	SVOCs	Terphenyl-d_{14}	**52**	53-125
MB 400-326226/1-A	SVOCs	Nitrobenzene-d_5	**127**	27-120

Qualifications due to surrogate recoveries were not required due to only one of three

base fraction surrogate recoveries being outside evaluation criteria in sample P114R-ROX-100716. No qualification of data was required. Method blank MB 400-326226/1-A is a quality control sample, and does not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, although not requested, sample P114R-ROX-100716 was spiked and analyzed for Method 8260 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
P114R-ROX-100716	VOCs	2-Chloroethyl vinyl ether	**6/7**	3	10-160/50

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

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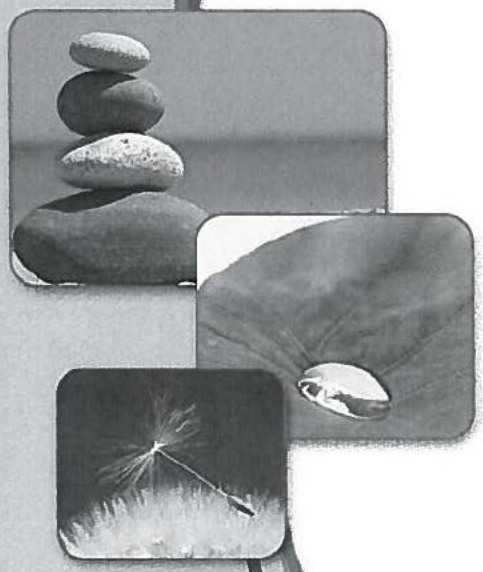

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
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Pensacola, FL 32514
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TestAmerica Job ID: 400-128424-1
TestAmerica SDG: 60477387-1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY GW (4Q16)
Revision: 1

For:
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Authorized for release by:
12/5/2016 5:09:06 PM

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Reviewed 12/5/2016

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Job ID: 400-128424-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128424-1

Receipt
The samples were received on 10/8/2016 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.0°C, 0.9°C, 1.2°C, 1.5°C and 1.9°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-327297 recovered above the upper control limit for Acetone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 400-327297 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) recovered below the reporting limit (RL) for 2-chloroethyl vinyl ether for batch 327297 due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 327297 was not calculable for 2-chloroethyl vinyl ether due to the recovery being below the reporting limit (RL).

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-100716-8260 (400-128424-2), MW13-ROX100716-EB (400-128424-4), MW13-ROX100716 (400-128424-5) and MW3-ROX100716 (400-128424-6). The requested target analytes list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: P114R-ROX-100716 (400-128424-3). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327672 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-327672 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327297 were outside control limits for 4-Methyl-2-pentanone (MIBK) due to high bias for this analyte on this day of analysis.

Job ID: 400-128424-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

GC/MS Semi VOA

Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-326226 and analytical batch 400-326587 recovered outside control limits for the following analyte: Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: P114R-ROX-100716 (400-128424-3) and (MB 400-326226/1-A). These results have been reported and qualified.

Method 8270D LL: The following analyte recovered outside control limits for the LCS, MS &MSD associated with preparation batch 400-326226 and analytical batch 400-326641: Acenaphthylene. Although the minimal recovery of Acenapthylene in the LCS would typically warrant corrective action, the sample in question was itself spiked and the recoveries were within the 4 standard deviations (a secondary marginal exceedance criteria). Qualified results have been reported.

Revision 1

This report has been revised per client request to elaborate further on Method 8270D LL recovery issues. Please see paragraph above for Method 8270D LL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128424-1	TB-ROX-100716-8011	Water	10/07/16 00:00	10/08/16 09:05
400-128424-2	TB-ROX-100716-8260	Water	10/07/16 00:00	10/08/16 09:05
400-128424-3	P114R-ROX-100716	Water	10/07/16 11:25	10/08/16 09:05
400-128424-4	MW13-ROX100716-EB	Water	10/07/16 12:05	10/08/16 09:05
400-128424-5	MW13-ROX100716	Water	10/07/16 12:35	10/08/16 09:05
400-128424-6	MW3-ROX100716	Water	10/07/16 14:55	10/08/16 09:05

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-100716-8011 — Lab Sample ID: 400-128424-1

No Detections.

Client Sample ID: TB-ROX-100716-8260 — Lab Sample ID: 400-128424-2

No Detections.

Client Sample ID: P114R-ROX-100716 — Lab Sample ID: 400-128424-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	9.8	J	29	7.0	ug/L	1		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	2.5	J	9.5	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW13-ROX100716-EB — Lab Sample ID: 400-128424-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	1.6	J	10	0.70	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate	0.52	J	10	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW13-ROX100716 — Lab Sample ID: 400-128424-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	7.6		1.0	0.74	ug/L	1		8260B	Total/NA

Client Sample ID: MW3-ROX100716 — Lab Sample ID: 400-128424-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	4.2		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	3.6		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	8.9		5.0	1.6	ug/L	1		8260B	Total/NA
N-Propylbenzene	8.5		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	1.0	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	2.5		1.0	0.70	ug/L	1		8260B	Total/NA
Xylenes, Total	10		10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.41		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.22		0.20	0.020	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-100716-8011
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/17/16 13:11	10/19/16 01:46	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/17/16 13:11	10/19/16 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*139*		*51 - 149*	*10/17/16 13:11*	*10/19/16 01:46*	*1*

Client Sample ID: TB-ROX-100716-8260
Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 13:50	1
Acrolein	ND		20	10	ug/L			10/19/16 13:50	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 13:50	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 13:50	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 13:50	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 13:50	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 13:50	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 13:50	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 13:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 13:50	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 13:50	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 13:50	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 13:50	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 13:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 13:50	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 13:50	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 13:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 13:50	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 13:50	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 13:50	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 13:50	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 13:50	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 13:50	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 13:50	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 13:50	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 13:50	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 13:50	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 13:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 13:50	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 13:50	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 13:50	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 13:50	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 13:50	1

Client Sample ID: TB-ROX-100716-8260

Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 13:50	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 13:50	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 13:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 13:50	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 13:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 13:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 13:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 13:50	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 13:50	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 13:50	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 13:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 13:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 13:50	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 13:50	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 13:50	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/19/16 13:50*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/19/16 13:50*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/19/16 13:50*	*1*

Client Sample ID: P114R-ROX-100716
Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 10:15	1
Acrolein	ND		20	10	ug/L			10/21/16 10:15	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 10:15	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 10:15	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 10:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 10:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 10:15	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 10:15	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 10:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 10:15	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/21/16 10:15	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 10:15	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 10:15	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 10:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 10:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 10:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 10:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 10:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 10:15	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 10:15	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 10:15	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 10:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 10:15	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 10:15	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 10:15	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 10:15	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 10:15	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 10:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 10:15	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 10:15	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 10:15	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 10:15	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 10:15	1

Client Sample ID: P114R-ROX-100716

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 10:15	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 10:15	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 10:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 10:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 10:15	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 10:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 10:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 10:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 10:15	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 10:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 10:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 10:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 10:15	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 10:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 10:15	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/21/16 10:15*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/21/16 10:15*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/21/16 10:15*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
Acenaphthylene	ND	* UJ	0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
Anthracene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Chrysene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Fluoranthene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
Fluorene	ND		0.19	0.020	ug/L		10/11/16 09:31	10/13/16 23:50	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		10/11/16 09:31	10/13/16 23:50	1
Phenanthrene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
Pyrene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		10/11/16 09:31	10/13/16 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*49*		*33 - 138*	*10/11/16 09:31*	*10/13/16 23:50*	*1*
2-Fluorobiphenyl	*67*		*15 - 122*	*10/11/16 09:31*	*10/13/16 23:50*	*1*

Client Sample ID: P114R-ROX-100716

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*53*		*19 - 130*	*10/11/16 09:31*	*10/13/16 23:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	3.6	ug/L		10/11/16 09:31	10/13/16 12:56	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		10/11/16 09:31	10/13/16 12:56	1
Benzoic acid	**9.8**	**J**	29	7.0	ug/L		10/11/16 09:31	10/13/16 12:56	1
Benzyl alcohol	ND		9.5	1.9	ug/L		10/11/16 09:31	10/13/16 12:56	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		10/11/16 09:31	10/13/16 12:56	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		10/11/16 09:31	10/13/16 12:56	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		10/11/16 09:31	10/13/16 12:56	1
Bis(2-ethylhexyl) phthalate	**2.5**	**J**	9.5	2.2	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		10/11/16 09:31	10/13/16 12:56	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Chloroaniline	ND		9.5	3.2	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		10/11/16 09:31	10/13/16 12:56	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		10/11/16 09:31	10/13/16 12:56	1
2-Chlorophenol	ND		9.5	2.1	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		10/11/16 09:31	10/13/16 12:56	1
Dibenz[a,h]acridine	ND		9.5	2.9	ug/L		10/11/16 09:31	10/13/16 12:56	1
Dibenzofuran	ND		9.5	0.50	ug/L		10/11/16 09:31	10/13/16 12:56	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		10/11/16 09:31	10/13/16 12:56	1
Diethyl phthalate	ND		9.5	0.67	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		10/11/16 09:31	10/13/16 12:56	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		10/11/16 09:31	10/13/16 12:56	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		10/11/16 09:31	10/13/16 12:56	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		10/11/16 09:31	10/13/16 12:56	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		10/11/16 09:31	10/13/16 12:56	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/11/16 09:31	10/13/16 12:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		10/11/16 09:31	10/13/16 12:56	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		10/11/16 09:31	10/13/16 12:56	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		10/11/16 09:31	10/13/16 12:56	1
Hexachloroethane	ND		9.5	4.0	ug/L		10/11/16 09:31	10/13/16 12:56	1
Indene	ND		9.5	0.95	ug/L		10/11/16 09:31	10/13/16 12:56	1
Isophorone	ND		9.5	0.54	ug/L		10/11/16 09:31	10/13/16 12:56	1
2-Methylphenol	ND		9.5	1.7	ug/L		10/11/16 09:31	10/13/16 12:56	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		10/11/16 09:31	10/13/16 12:56	1
2-Nitroaniline	ND		9.5	2.1	ug/L		10/11/16 09:31	10/13/16 12:56	1
3-Nitroaniline	ND		9.5	1.7	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Nitroaniline	ND		9.5	2.4	ug/L		10/11/16 09:31	10/13/16 12:56	1
Nitrobenzene	ND		9.5	0.52	ug/L		10/11/16 09:31	10/13/16 12:56	1
2-Nitrophenol	ND		9.5	0.62	ug/L		10/11/16 09:31	10/13/16 12:56	1
4-Nitrophenol	ND		9.5	2.0	ug/L		10/11/16 09:31	10/13/16 12:56	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		10/11/16 09:31	10/13/16 12:56	1

Client Sample ID: P114R-ROX-100716

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.5	3.1	ug/L		10/11/16 09:31	10/14/16 18:41	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		10/11/16 09:31	10/13/16 12:56	1
Pentachlorophenol	ND		19	1.7	ug/L		10/11/16 09:31	10/13/16 12:56	1
Phenol	ND		9.5	2.5	ug/L		10/11/16 09:31	10/13/16 12:56	1
Pyridine	ND		9.5	3.0	ug/L		10/11/16 09:31	10/13/16 12:56	1
Quinoline	ND		9.5	5.7	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		10/11/16 09:31	10/13/16 12:56	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		10/11/16 09:31	10/13/16 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/11/16 09:31*	*10/13/16 12:56*	*1*
2-Fluorophenol	*39*		*10 - 120*	*10/11/16 09:31*	*10/13/16 12:56*	*1*
Nitrobenzene-d5	*58*		*27 - 120*	*10/11/16 09:31*	*10/13/16 12:56*	*1*
Phenol-d5	*52*		*10 - 120*	*10/11/16 09:31*	*10/13/16 12:56*	*1*
Terphenyl-d14	*52*	*X*	*53 - 125*	*10/11/16 09:31*	*10/13/16 12:56*	*1*
2,4,6-Tribromophenol	*76*		*15 - 135*	*10/11/16 09:31*	*10/13/16 12:56*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/17/16 13:11	10/19/16 02:16	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/17/16 13:11	10/19/16 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*122*		*51 - 149*	*10/17/16 13:11*	*10/19/16 02:16*	*1*

Client Sample ID: MW13-ROX100716-EB

Date Collected: 10/07/16 12:05
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 14:14	1
Acrolein	ND		20	10	ug/L			10/19/16 14:14	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 14:14	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 14:14	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 14:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 14:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 14:14	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 14:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 14:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 14:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 14:14	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 14:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 14:14	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 14:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 14:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 14:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 14:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 14:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 14:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 14:14	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 14:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 14:14	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 14:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 14:14	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 14:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 14:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 14:14	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 14:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 14:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 14:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 14:14	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 14:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 14:14	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 14:14	1

Client Sample ID: MW13-ROX100716-EB

Date Collected: 10/07/16 12:05
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 14:14	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 14:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 14:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 14:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 14:14	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 14:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 14:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 14:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 14:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 14:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 14:14	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 14:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 14:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 14:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 14:14	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 14:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 14:14	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 14:14*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/19/16 14:14*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/19/16 14:14*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
Acenaphthylene	ND	*	0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/13/16 01:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/13/16 01:36	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/13/16 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*70*		*33 - 138*	*10/11/16 09:31*	*10/13/16 01:36*	*1*
2-Fluorobiphenyl	*62*		*15 - 122*	*10/11/16 09:31*	*10/13/16 01:36*	*1*

Client Sample ID: MW13-ROX100716-EB

Date Collected: 10/07/16 12:05
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		19 - 130	10/11/16 09:31	10/13/16 01:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 13:27	1
Benzenethiol	ND	*	10	1.7	ug/L		10/11/16 09:31	10/13/16 13:27	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 13:27	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 13:27	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 13:27	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 13:27	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 13:27	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 13:27	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 13:27	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 13:27	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Diethyl phthalate	**1.6**	J	10	0.70	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:27	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 13:27	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 13:27	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 13:27	1
Di-n-octyl phthalate	**0.52**	J	10	0.44	ug/L		10/11/16 09:31	10/13/16 13:27	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 13:27	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 13:27	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 13:27	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 13:27	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 13:27	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 13:27	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 13:27	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 13:27	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 13:27	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 13:27	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:27	1

Client Sample ID: MW13-ROX100716-EB

Date Collected: 10/07/16 12:05
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 19:11	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 13:27	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 13:27	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 13:27	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 13:27	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 13:27	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/11/16 09:31*	*10/13/16 13:27*	*1*
2-Fluorophenol	*39*		*10 - 120*	*10/11/16 09:31*	*10/13/16 13:27*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/11/16 09:31*	*10/13/16 13:27*	*1*
Phenol-d5	*65*		*10 - 120*	*10/11/16 09:31*	*10/13/16 13:27*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/11/16 09:31*	*10/13/16 13:27*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/11/16 09:31*	*10/13/16 13:27*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/17/16 13:11	10/19/16 02:46	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/17/16 13:11	10/19/16 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/17/16 13:11*	*10/19/16 02:46*	*1*

Client Sample ID: MW13-ROX100716

Date Collected: 10/07/16 12:35
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 15:05	1
Acrolein	ND		20	10	ug/L			10/19/16 15:05	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 15:05	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 15:05	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 15:05	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 15:05	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 15:05	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 15:05	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 15:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 15:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 15:05	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 15:05	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 15:05	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 15:05	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 15:05	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 15:05	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 15:05	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 15:05	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 15:05	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 15:05	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 15:05	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 15:05	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 15:05	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 15:05	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 15:05	1
Methyl tert-butyl ether	**7.6**		1.0	0.74	ug/L			10/19/16 15:05	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 15:05	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 15:05	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 15:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 15:05	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 15:05	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 15:05	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 15:05	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 15:05	1

Client Sample ID: MW13-ROX100716

Date Collected: 10/07/16 12:35
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 15:05	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 15:05	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 15:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 15:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 15:05	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 15:05	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 15:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 15:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 15:05	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:05	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 15:05	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 15:05	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 15:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 15:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 15:05	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 15:05	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 15:05	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 15:05*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/19/16 15:05*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/19/16 15:05*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/14/16 00:15	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:15	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*63*		*33 - 138*	*10/11/16 09:31*	*10/14/16 00:15*	*1*
2-Fluorobiphenyl	*72*		*15 - 122*	*10/11/16 09:31*	*10/14/16 00:15*	*1*

Client Sample ID: MW13-ROX100716

Date Collected: 10/07/16 12:35
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		19 - 130	10/11/16 09:31	10/14/16 00:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 13:58	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 13:58	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 13:58	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 13:58	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 13:58	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 13:58	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:58	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 13:58	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 13:58	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 13:58	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 13:58	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 13:58	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 13:58	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 13:58	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 13:58	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 13:58	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 13:58	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 13:58	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 13:58	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 13:58	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:58	1

Client Sample ID: MW13-ROX100716

Date Collected: 10/07/16 12:35
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 19:42	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 13:58	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 13:58	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 13:58	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 13:58	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 13:58	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
2-Fluorophenol	*21*		*10 - 120*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
Nitrobenzene-d5	*88*		*27 - 120*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
Phenol-d5	*63*		*10 - 120*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/11/16 09:31*	*10/13/16 13:58*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/11/16 09:31*	*10/13/16 13:58*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/17/16 13:11	10/19/16 03:15	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/17/16 13:11	10/19/16 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*	*p*	*51 - 149*	*10/17/16 13:11*	*10/19/16 03:15*	*1*

Client Sample ID: MW3-ROX100716

Date Collected: 10/07/16 14:55
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 15:31	1
Acrolein	ND		20	10	ug/L			10/19/16 15:31	1
Acrylonitrile	ND	*	10	2.8	ug/L			10/19/16 15:31	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 15:31	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 15:31	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 15:31	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 15:31	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 15:31	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 15:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 15:31	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 15:31	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 15:31	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 15:31	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 15:31	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 15:31	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 15:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 15:31	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 15:31	1
2-Hexanone	ND	*	25	3.1	ug/L			10/19/16 15:31	1
Isopropylbenzene	**4.2**		1.0	0.53	ug/L			10/19/16 15:31	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 15:31	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 15:31	1
4-Methyl-2-pentanone (MIBK)	ND	*	25	1.8	ug/L			10/19/16 15:31	1
Methyl tert-butyl ether	**3.6**		1.0	0.74	ug/L			10/19/16 15:31	1
m-Xylene & p-Xylene	**8.9**		5.0	1.6	ug/L			10/19/16 15:31	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 15:31	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 15:31	1
N-Propylbenzene	**8.5**		1.0	0.69	ug/L			10/19/16 15:31	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 15:31	1
o-Xylene	**1.0**	J	5.0	0.60	ug/L			10/19/16 15:31	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 15:31	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 15:31	1

Client Sample ID: MW3-ROX100716

Date Collected: 10/07/16 14:55
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 15:31	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 15:31	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 15:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 15:31	1
Toluene	**2.5**		1.0	0.70	ug/L			10/19/16 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 15:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 15:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 15:31	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 15:31	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 15:31	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 15:31	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 15:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 15:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 15:31	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 15:31	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 15:31	1
Xylenes, Total	**10**		10	1.6	ug/L			10/19/16 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/19/16 15:31*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/19/16 15:31*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/19/16 15:31*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
Acenaphthylene	ND	* UJ	0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/14/16 00:41	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/14/16 00:41	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
1-Methylnaphthalene	**0.41**		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1
2-Methylnaphthalene	**0.22**		0.20	0.020	ug/L		10/11/16 09:31	10/14/16 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*67*		*33 - 138*	*10/11/16 09:31*	*10/14/16 00:41*	*1*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/11/16 09:31*	*10/14/16 00:41*	*1*

Client Sample ID: MW3-ROX100716

Date Collected: 10/07/16 14:55
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-6

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*19 - 130*	*10/11/16 09:31*	*10/14/16 00:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 14:30	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/11/16 09:31	10/13/16 14:30	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 14:30	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 14:30	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 14:30	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 14:30	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 14:30	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 14:30	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 14:30	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 14:30	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 14:30	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 14:30	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 14:30	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 14:30	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 14:30	1
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 14:30	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 14:30	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 14:30	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 14:30	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 14:30	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 14:30	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 14:30	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 14:30	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 14:30	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 14:30	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 14:30	1

Client Sample ID: MW3-ROX100716

Date Collected: 10/07/16 14:55
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 20:13	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 14:30	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 14:30	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 14:30	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 14:30	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 14:30	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/11/16 09:31*	*10/13/16 14:30*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/11/16 09:31*	*10/13/16 14:30*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/11/16 09:31*	*10/13/16 14:30*	*1*
Phenol-d5	*80*		*10 - 120*	*10/11/16 09:31*	*10/13/16 14:30*	*1*
Terphenyl-d14	*72*		*53 - 125*	*10/11/16 09:31*	*10/13/16 14:30*	*1*
2,4,6-Tribromophenol	*87*		*15 - 135*	*10/11/16 09:31*	*10/13/16 14:30*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/17/16 13:11	10/19/16 03:45	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/17/16 13:11	10/19/16 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*73*		*51 - 149*	*10/17/16 13:11*	*10/19/16 03:45*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128416-A-3 MS	Matrix Spike	97	93	98
400-128416-A-3 MSD	Matrix Spike Duplicate	98	95	97
400-128424-2	TB-ROX-100716-8260	92	98	92
400-128424-3	P114R-ROX-100716	95	103	106
400-128424-3 MS	P114R-ROX-100716	94	105	102
400-128424-3 MSD	P114R-ROX-100716	97	109	101
400-128424-4	MW13-ROX100716-EB	90	98	90
400-128424-5	MW13-ROX100716	90	99	92
400-128424-6	MW3-ROX100716	92	101	90
LCS 400-327297/1003	Lab Control Sample	98	93	97
LCS 400-327672/1002	Lab Control Sample	99	105	103
MB 400-327297/5	Method Blank	90	99	91
MB 400-327672/4	Method Blank	98	102	104

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128416-E-3-B MS	Matrix Spike	71	46	65	60	61	89
400-128416-E-3-C MSD	Matrix Spike Duplicate	74	55	107	54	49 X	85
400-128424-3	P114R-ROX-100716	69	39	58	52	52 X	76
400-128424-4	MW13-ROX100716-EB	79	39	74	65	98	89
400-128424-5	MW13-ROX100716	82	21	88	63	89	83
400-128424-6	MW3-ROX100716	72	56	81	80	72	87
400-128442-D-1-B MS	Matrix Spike	99	86	84	86	99	144 X
400-128442-D-1-C MSD	Matrix Spike Duplicate	94	76	80	88	102	130
LCS 400-326226/2-A	Lab Control Sample	92	71	81	88	97	114
MB 400-326226/1-A	Method Blank	90	59	127 X	87	83	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128416-E-3-B MS	Matrix Spike	63	90	77
400-128416-E-3-C MSD	Matrix Spike Duplicate	45	80	70
400-128424-3	P114R-ROX-100716	49	67	53
400-128424-4	MW13-ROX100716-EB	70	62	61
400-128424-5	MW13-ROX100716	63	72	75
400-128424-6	MW3-ROX100716	67	85	80
LCS 400-326226/2-A	Lab Control Sample	86	87	73
MB 400-326226/1-A	Method Blank	61	58	58

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(51-149)
400-128424-1	TB-ROX-100716-8011	139
400-128424-3	P114R-ROX-100716	122
400-128424-4	MW13-ROX100716-EB	136
400-128424-5	MW13-ROX100716	109 p
400-128424-6	MW3-ROX100716	73
LCS 400-327020/2-A	Lab Control Sample	135
LCSD 400-327020/3-A	Lab Control Sample Dup	124
MB 400-327020/1-A	Method Blank	126

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-100716-8011

Lab Sample ID: 400-128424-1
Matrix: Water

Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.9 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 01:46	KH1	TAL PEN

Client Sample ID: TB-ROX-100716-8260

Lab Sample ID: 400-128424-2
Matrix: Water

Date Collected: 10/07/16 00:00
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 13:50	CS	TAL PEN

Client Sample ID: P114R-ROX-100716

Lab Sample ID: 400-128424-3
Matrix: Water

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327672	10/21/16 10:15	CAR	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 12:56	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 18:41	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326697	10/13/16 23:50	VC1	TAL PEN
Total/NA	Prep	8011			33.8 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 02:16	KH1	TAL PEN

Client Sample ID: MW13-ROX100716-EB

Lab Sample ID: 400-128424-4
Matrix: Water

Date Collected: 10/07/16 12:05
Date Received: 10/08/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 14:14	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 13:27	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 19:11	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326641	10/13/16 01:36	VC1	TAL PEN
Total/NA	Prep	8011			36.3 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 02:46	KH1	TAL PEN

Client Sample ID: MW13-ROX100716

Date Collected: 10/07/16 12:35
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 15:05	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 13:58	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 19:42	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326697	10/14/16 00:15	VC1	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 03:15	KH1	TAL PEN

Client Sample ID: MW3-ROX100716

Date Collected: 10/07/16 14:55
Date Received: 10/08/16 09:05

Lab Sample ID: 400-128424-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 15:31	CS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 14:30	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 20:13	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326697	10/14/16 00:41	VC1	TAL PEN
Total/NA	Prep	8011			34.1 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 03:45	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-326226/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 11:56	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 17:40	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			326641	10/12/16 21:46	VC1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327020/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-327020/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1			327319	10/18/16 19:20	KH1	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-327297/5

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 08:35	CS	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-327672/4

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327672	10/21/16 09:51	CAR	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-326226/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 12:26	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326743	10/14/16 18:10	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:10	VC1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327020/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/18/16 19:50	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327297/1003

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 07:46	CS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327672/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327672	10/21/16 08:56	CAR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327020/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/18/16 20:19	KH1	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128416-A-3 MS

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 11:47	CS	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128416-A-3 MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327297	10/19/16 12:11	CS	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128416-E-3-B MS

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 20:05	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:32	VC1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128416-E-3-C MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326587	10/13/16 15:32	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: Matrix Spike Duplicate
Lab Sample ID: 400-128416-E-3-C MSD

Date Collected: 10/07/16 09:30
Date Received: 10/08/16 09:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5			326641	10/12/16 22:55	VC1	TAL PEN

Client Sample ID: P114R-ROX-100716
Lab Sample ID: 400-128424-3 MS

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327672	10/21/16 18:27	CAR	TAL PEN

Client Sample ID: P114R-ROX-100716
Lab Sample ID: 400-128424-3 MSD

Date Collected: 10/07/16 11:25
Date Received: 10/08/16 09:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327672	10/21/16 18:50	CAR	TAL PEN

Client Sample ID: Matrix Spike
Lab Sample ID: 400-128442-D-1-B MS

Date Collected: 10/07/16 13:38
Date Received: 10/10/16 13:33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			240 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326590	10/13/16 16:38	MAM	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Lab Sample ID: 400-128442-D-1-C MSD

Date Collected: 10/07/16 13:38
Date Received: 10/10/16 13:33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			240 mL	1 mL	326226	10/11/16 09:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			326590	10/13/16 17:12	MAM	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-2	TB-ROX-100716-8260	Total/NA	Water	8260B	
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8260B	
400-128424-5	MW13-ROX100716	Total/NA	Water	8260B	
400-128424-6	MW3-ROX100716	Total/NA	Water	8260B	
MB 400-327297/5	Method Blank	Total/NA	Water	8260B	
LCS 400-327297/1003	Lab Control Sample	Total/NA	Water	8260B	
400-128416-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
400-128416-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 327672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-3	P114R-ROX-100716	Total/NA	Water	8260B	
MB 400-327672/4	Method Blank	Total/NA	Water	8260B	
LCS 400-327672/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128424-3 MS	P114R-ROX-100716	Total/NA	Water	8260B	
400-128424-3 MSD	P114R-ROX-100716	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 326226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-3	P114R-ROX-100716	Total/NA	Water	3520C	
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	3520C	
400-128424-5	MW13-ROX100716	Total/NA	Water	3520C	
400-128424-6	MW3-ROX100716	Total/NA	Water	3520C	
MB 400-326226/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	3520C	
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	3520C	
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	
400-128442-D-1-B MS	Matrix Spike	Total/NA	Water	3520C	
400-128442-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 326587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-3	P114R-ROX-100716	Total/NA	Water	8270D	326226
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8270D	326226
400-128424-5	MW13-ROX100716	Total/NA	Water	8270D	326226
400-128424-6	MW3-ROX100716	Total/NA	Water	8270D	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D	326226
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	8270D	326226
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	326226

Analysis Batch: 326590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128442-D-1-B MS	Matrix Spike	Total/NA	Water	8270D	326226
400-128442-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	326226

GC/MS Semi VOA (Continued)

Analysis Batch: 326641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8270D LL	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D LL	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D LL	326226
400-128416-E-3-B MS	Matrix Spike	Total/NA	Water	8270D LL	326226
400-128416-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D LL	326226

Analysis Batch: 326697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-3	P114R-ROX-100716	Total/NA	Water	8270D LL	326226
400-128424-5	MW13-ROX100716	Total/NA	Water	8270D LL	326226
400-128424-6	MW3-ROX100716	Total/NA	Water	8270D LL	326226

Analysis Batch: 326743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-3	P114R-ROX-100716	Total/NA	Water	8270D	326226
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8270D	326226
400-128424-5	MW13-ROX100716	Total/NA	Water	8270D	326226
400-128424-6	MW3-ROX100716	Total/NA	Water	8270D	326226
MB 400-326226/1-A	Method Blank	Total/NA	Water	8270D	326226
LCS 400-326226/2-A	Lab Control Sample	Total/NA	Water	8270D	326226

GC Semi VOA

Prep Batch: 327020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-1	TB-ROX-100716-8011	Total/NA	Water	8011	
400-128424-3	P114R-ROX-100716	Total/NA	Water	8011	
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8011	
400-128424-5	MW13-ROX100716	Total/NA	Water	8011	
400-128424-6	MW3-ROX100716	Total/NA	Water	8011	
MB 400-327020/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327020/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327020/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 327319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128424-1	TB-ROX-100716-8011	Total/NA	Water	8011	327020
400-128424-3	P114R-ROX-100716	Total/NA	Water	8011	327020
400-128424-4	MW13-ROX100716-EB	Total/NA	Water	8011	327020
400-128424-5	MW13-ROX100716	Total/NA	Water	8011	327020
400-128424-6	MW3-ROX100716	Total/NA	Water	8011	327020
MB 400-327020/1-A	Method Blank	Total/NA	Water	8011	327020
LCS 400-327020/2-A	Lab Control Sample	Total/NA	Water	8011	327020
LCSD 400-327020/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327020

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/19/16 08:35	1
Acrolein	ND		20	10	ug/L			10/19/16 08:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/19/16 08:35	1
Benzene	ND		1.0	0.38	ug/L			10/19/16 08:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Bromoform	ND		5.0	0.71	ug/L			10/19/16 08:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/19/16 08:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/19/16 08:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/19/16 08:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/19/16 08:35	1
Chloroform	ND		1.0	0.60	ug/L			10/19/16 08:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/19/16 08:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/19/16 08:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/19/16 08:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/19/16 08:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/19/16 08:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/19/16 08:35	1
2-Hexanone	ND		25	3.1	ug/L			10/19/16 08:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/19/16 08:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/19/16 08:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/19/16 08:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/19/16 08:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/19/16 08:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/19/16 08:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/19/16 08:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/19/16 08:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/19/16 08:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/19/16 08:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/19/16 08:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327297/5
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/19/16 08:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
Styrene	ND		1.0	1.0	ug/L			10/19/16 08:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/19/16 08:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/19/16 08:35	1
Toluene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/19/16 08:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/19/16 08:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/19/16 08:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/19/16 08:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/19/16 08:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/19/16 08:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/19/16 08:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/19/16 08:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/19/16 08:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/19/16 08:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/19/16 08:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/19/16 08:35*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/19/16 08:35*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/19/16 08:35*	*1*

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	302		ug/L		151	43 - 160
Acrolein	500	549		ug/L		110	38 - 160
Acrylonitrile	500	739	*	ug/L		148	64 - 142
Benzene	50.0	55.6		ug/L		111	70 - 130
Bromobenzene	50.0	58.4		ug/L		117	70 - 132
Bromochloromethane	50.0	51.0		ug/L		102	70 - 130
Bromodichloromethane	50.0	50.4		ug/L		101	67 - 133
Bromoform	50.0	50.6		ug/L		101	57 - 140
Bromomethane	50.0	32.9		ug/L		66	10 - 160
2-Butanone (MEK)	200	226		ug/L		113	61 - 145
Carbon disulfide	50.0	51.9		ug/L		104	61 - 137
Carbon tetrachloride	50.0	48.8		ug/L		98	61 - 137
Chlorobenzene	50.0	56.0		ug/L		112	70 - 130
Dibromochloromethane	50.0	52.3		ug/L		105	67 - 135
Chloroethane	50.0	47.0		ug/L		94	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	36.9		ug/L		74	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	61.0		ug/L		122	69 - 130
Chloromethane	50.0	56.1		ug/L		112	58 - 137
cis-1,2-Dichloroethene	50.0	57.9		ug/L		116	68 - 130
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	56.2		ug/L		112	67 - 130
1,3-Dichlorobenzene	50.0	57.4		ug/L		115	70 - 130
1,4-Dichlorobenzene	50.0	59.6		ug/L		119	70 - 130
Dichlorodifluoromethane	50.0	37.3		ug/L		75	41 - 146
1,1-Dichloroethane	50.0	57.2		ug/L		114	70 - 130
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	59.9		ug/L		120	70 - 130
1,3-Dichloropropane	50.0	55.6		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	46.1		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	51.9		ug/L		104	70 - 130
Ethylbenzene	50.0	55.4		ug/L		111	70 - 130
Ethyl methacrylate	50.0	56.1		ug/L		112	68 - 130
Hexachlorobutadiene	50.0	51.6		ug/L		103	53 - 140
2-Hexanone	200	293	*	ug/L		146	65 - 137
Isopropylbenzene	50.0	55.9		ug/L		112	70 - 130
Methylene bromide	50.0	51.8		ug/L		104	70 - 130
Methylene Chloride	50.0	53.3		ug/L		107	66 - 135
4-Methyl-2-pentanone (MIBK)	200	315	*	ug/L		158	69 - 138
Methyl tert-butyl ether	50.0	51.6		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	70 - 130
Naphthalene	50.0	54.8		ug/L		110	47 - 149
n-Butylbenzene	50.0	54.3		ug/L		109	67 - 130
N-Propylbenzene	50.0	56.5		ug/L		113	70 - 130
o-Chlorotoluene	50.0	52.5		ug/L		105	70 - 130
o-Xylene	50.0	54.0		ug/L		108	70 - 130
p-Chlorotoluene	50.0	54.1		ug/L		108	70 - 130
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	56.2		ug/L		112	66 - 130
Styrene	50.0	55.5		ug/L		111	70 - 130
tert-Butylbenzene	50.0	58.5		ug/L		117	64 - 139
1,1,1,2-Tetrachloroethane	50.0	55.1		ug/L		110	67 - 131
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	70 - 131
Tetrachloroethene	50.0	52.4		ug/L		105	65 - 130
Toluene	50.0	54.3		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 138
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	60 - 140
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	68 - 130
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	70 - 130
Trichloroethene	50.0	56.6		ug/L		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327297/1003
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.7		ug/L		85	65 - 138
1,2,3-Trichloropropane	50.0	56.3		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	50.0	53.4		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	50.0	57.8		ug/L		116	69 - 130
Vinyl acetate	100	93.1		ug/L		93	26 - 160
Vinyl chloride	50.0	47.4		ug/L		95	59 - 136
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-128416-A-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	215		ug/L		107	43 - 160
Acrolein	ND		500	549		ug/L		110	38 - 160
Acrylonitrile	ND	*	500	726		ug/L		145	62 - 149
Benzene	ND		50.0	53.5		ug/L		107	56 - 142
Bromobenzene	ND		50.0	53.5		ug/L		107	59 - 136
Bromochloromethane	ND		50.0	49.4		ug/L		99	64 - 140
Bromodichloromethane	ND		50.0	47.4		ug/L		95	59 - 143
Bromoform	ND		50.0	45.9		ug/L		92	50 - 140
Bromomethane	ND		50.0	30.0		ug/L		60	10 - 160
2-Butanone (MEK)	ND		200	204		ug/L		102	55 - 150
Carbon disulfide	ND		50.0	47.6		ug/L		95	48 - 152
Carbon tetrachloride	ND		50.0	45.6		ug/L		91	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	49.3		ug/L		99	56 - 143
Chloroethane	ND		50.0	45.9		ug/L		92	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141
1-Chlorohexane	ND		50.0	55.2		ug/L		110	56 - 136
Chloromethane	ND		50.0	50.7		ug/L		101	49 - 148
cis-1,2-Dichloroethene	ND		50.0	56.0		ug/L		112	59 - 143
cis-1,3-Dichloropropene	ND		50.0	50.9		ug/L		102	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.8		ug/L		102	52 - 137
1,3-Dichlorobenzene	ND		50.0	51.4		ug/L		103	54 - 135
1,4-Dichlorobenzene	ND		50.0	53.1		ug/L		106	53 - 135
Dichlorodifluoromethane	ND		50.0	32.2		ug/L		64	16 - 160
1,1-Dichloroethane	ND		50.0	54.4		ug/L		109	61 - 144
1,2-Dichloroethane	ND		50.0	50.0		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	44.6		ug/L		89	54 - 147
1,2-Dichloropropane	ND		50.0	57.9		ug/L		116	66 - 137
1,3-Dichloropropane	ND		50.0	54.1		ug/L		108	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MS
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.4		ug/L		87	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	51.7		ug/L		103	58 - 131
Ethyl methacrylate	ND		50.0	54.2		ug/L		108	64 - 130
Hexachlorobutadiene	ND		50.0	42.6		ug/L		85	31 - 149
2-Hexanone	ND	*	200	271		ug/L		136	65 - 140
Isopropylbenzene	ND		50.0	51.8		ug/L		104	56 - 133
Methylene bromide	ND		50.0	49.2		ug/L		98	63 - 138
Methylene Chloride	ND		50.0	50.4		ug/L		101	60 - 146
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146
Methyl tert-butyl ether	1.0		50.0	49.6		ug/L		97	59 - 137
m-Xylene & p-Xylene	ND		50.0	50.6		ug/L		101	57 - 130
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	47.7		ug/L		95	41 - 142
N-Propylbenzene	ND		50.0	50.8		ug/L		102	51 - 138
o-Chlorotoluene	ND		50.0	49.1		ug/L		98	53 - 134
o-Xylene	ND		50.0	50.7		ug/L		101	61 - 130
p-Chlorotoluene	ND		50.0	49.3		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	50.7		ug/L		101	48 - 139
sec-Butylbenzene	ND		50.0	49.5		ug/L		99	50 - 138
Styrene	ND		50.0	51.5		ug/L		103	58 - 131
tert-Butylbenzene	ND		50.0	53.3		ug/L		107	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	50.3		ug/L		101	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	53.8		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	48.9		ug/L		98	52 - 133
Toluene	ND		50.0	51.9		ug/L		104	65 - 130
trans-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.2		ug/L		92	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	47.6		ug/L		95	39 - 148
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	57 - 142
1,1,2-Trichloroethane	ND		50.0	53.1		ug/L		106	66 - 131
Trichloroethene	ND		50.0	53.7		ug/L		107	64 - 136
Trichlorofluoromethane	ND		50.0	41.9		ug/L		84	54 - 156
1,2,3-Trichloropropane	ND		50.0	53.1		ug/L		106	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	48.7		ug/L		97	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.8		ug/L		104	52 - 135
Vinyl acetate	ND		100	92.2		ug/L		92	26 - 160
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152
Xylenes, Total	ND		100	101		ug/L		101	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	221		ug/L		110	43 - 160	3	30
Acrolein	ND		500	605		ug/L		121	38 - 160	10	31
Acrylonitrile	ND	*	500	713		ug/L		143	62 - 149	2	30
Benzene	ND		50.0	52.8		ug/L		106	56 - 142	1	30
Bromobenzene	ND		50.0	50.6		ug/L		101	59 - 136	5	30
Bromochloromethane	ND		50.0	48.2		ug/L		96	64 - 140	2	30
Bromodichloromethane	ND		50.0	46.6		ug/L		93	59 - 143	2	30
Bromoform	ND		50.0	45.2		ug/L		90	50 - 140	2	30
Bromomethane	ND		50.0	39.6		ug/L		79	10 - 160	28	50
2-Butanone (MEK)	ND		200	203		ug/L		101	55 - 150	1	30
Carbon disulfide	ND		50.0	46.8		ug/L		94	48 - 152	2	30
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	55 - 145	1	30
Chlorobenzene	ND		50.0	50.8		ug/L		102	64 - 130	4	30
Dibromochloromethane	ND		50.0	48.5		ug/L		97	56 - 143	2	30
Chloroethane	ND		50.0	50.5		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.4		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	54.1		ug/L		108	56 - 136	2	30
Chloromethane	ND		50.0	55.2		ug/L		110	49 - 148	8	31
cis-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	57 - 140	0	30
1,2-Dichlorobenzene	ND		50.0	48.9		ug/L		98	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	49.6		ug/L		99	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	50.8		ug/L		102	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	36.3		ug/L		73	16 - 160	12	31
1,1-Dichloroethane	ND		50.0	52.9		ug/L		106	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	48.8		ug/L		98	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	43.8		ug/L		88	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	57.1		ug/L		114	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	43.5		ug/L		87	42 - 144	0	31
1,1-Dichloropropene	ND		50.0	49.2		ug/L		98	65 - 136	1	30
Ethylbenzene	ND		50.0	50.6		ug/L		101	58 - 131	2	30
Ethyl methacrylate	ND		50.0	52.9		ug/L		106	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	42.2		ug/L		84	31 - 149	1	36
2-Hexanone	ND	*	200	270		ug/L		135	65 - 140	1	30
Isopropylbenzene	ND		50.0	50.6		ug/L		101	56 - 133	2	30
Methylene bromide	ND		50.0	48.9		ug/L		98	63 - 138	1	30
Methylene Chloride	ND		50.0	49.3		ug/L		99	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND	F1 *	200	304	F1	ug/L		152	63 - 146	0	30
Methyl tert-butyl ether	1.0		50.0	49.7		ug/L		97	59 - 137	0	30
m-Xylene & p-Xylene	ND		50.0	48.5		ug/L		97	57 - 130	4	30
Naphthalene	ND		50.0	49.2		ug/L		98	25 - 160	1	30
n-Butylbenzene	ND		50.0	45.2		ug/L		90	41 - 142	5	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	3	30
o-Chlorotoluene	ND		50.0	47.1		ug/L		94	53 - 134	4	30
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130	3	30
p-Chlorotoluene	ND		50.0	47.2		ug/L		94	54 - 133	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-A-3 MSD
Matrix: Water
Analysis Batch: 327297

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	48.6		ug/L		97	48 - 139	4	30
sec-Butylbenzene	ND		50.0	48.3		ug/L		97	50 - 138	2	30
Styrene	ND		50.0	50.0		ug/L		100	58 - 131	3	30
tert-Butylbenzene	ND		50.0	52.0		ug/L		104	54 - 146	2	30
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	52.7		ug/L		105	66 - 135	2	30
Tetrachloroethene	ND		50.0	47.9		ug/L		96	52 - 133	2	30
Toluene	ND		50.0	50.4		ug/L		101	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	48.5		ug/L		97	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	44.9		ug/L		90	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	44.6		ug/L		89	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	47.7		ug/L		95	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	52.2		ug/L		104	66 - 131	2	30
Trichloroethene	ND		50.0	53.0		ug/L		106	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	46.2		ug/L		92	54 - 156	10	30
1,2,3-Trichloropropane	ND		50.0	52.4		ug/L		105	65 - 133	1	30
1,2,4-Trimethylbenzene	ND		50.0	46.4		ug/L		93	50 - 139	5	30
1,3,5-Trimethylbenzene	ND		50.0	50.3		ug/L		101	52 - 135	3	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 160	11	33
Vinyl chloride	ND		50.0	49.3		ug/L		99	46 - 152	9	30
Xylenes, Total	ND		100	97.8		ug/L		98	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 400-327672/4
Matrix: Water
Analysis Batch: 327672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 09:51	1
Acrolein	ND		20	10	ug/L			10/21/16 09:51	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 09:51	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 09:51	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 09:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 09:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 09:51	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 09:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 09:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 09:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327672/4
Matrix: Water
Analysis Batch: 327672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 09:51	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 09:51	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 09:51	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 09:51	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 09:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 09:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 09:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 09:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 09:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 09:51	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 09:51	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 09:51	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 09:51	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 09:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 09:51	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 09:51	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 09:51	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 09:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 09:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 09:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 09:51	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 09:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 09:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 09:51	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 09:51	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 09:51	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 09:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 09:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 09:51	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 09:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 09:51	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 09:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 09:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 09:51	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 09:51	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 09:51	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 09:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327672/4
Matrix: Water
Analysis Batch: 327672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 09:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 09:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 09:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 09:51	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 09:51	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 09:51	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 09:51*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/21/16 09:51*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/21/16 09:51*	*1*

Lab Sample ID: LCS 400-327672/1002
Matrix: Water
Analysis Batch: 327672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	244		ug/L		122	43 - 160
Acrolein	500	498		ug/L		100	38 - 160
Acrylonitrile	500	471		ug/L		94	64 - 142
Benzene	50.0	49.9		ug/L		100	70 - 130
Bromobenzene	50.0	53.2		ug/L		106	70 - 132
Bromochloromethane	50.0	49.3		ug/L		99	70 - 130
Bromodichloromethane	50.0	48.7		ug/L		97	67 - 133
Bromoform	50.0	43.7		ug/L		87	57 - 140
Bromomethane	50.0	54.5		ug/L		109	10 - 160
2-Butanone (MEK)	200	216		ug/L		108	61 - 145
Carbon disulfide	50.0	46.7		ug/L		93	61 - 137
Carbon tetrachloride	50.0	51.6		ug/L		103	61 - 137
Chlorobenzene	50.0	54.5		ug/L		109	70 - 130
Dibromochloromethane	50.0	48.0		ug/L		96	67 - 135
Chloroethane	50.0	55.0		ug/L		110	55 - 141
2-Chloroethyl vinyl ether	50.0	31.2		ug/L		62	10 - 160
Chloroform	50.0	52.6		ug/L		105	69 - 130
1-Chlorohexane	50.0	52.5		ug/L		105	69 - 130
Chloromethane	50.0	42.6		ug/L		85	58 - 137
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	68 - 130
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	69 - 132
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	67 - 130
1,3-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130
1,4-Dichlorobenzene	50.0	54.8		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	42.1		ug/L		84	41 - 146
1,1-Dichloroethane	50.0	52.0		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	52.4		ug/L		105	69 - 130
1,1-Dichloroethene	50.0	49.8		ug/L		100	63 - 134
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
1,3-Dichloropropane	50.0	54.5		ug/L		109	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327672/1002
Matrix: Water
Analysis Batch: 327672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	48.1		ug/L		96	52 - 135
1,1-Dichloropropene	50.0	53.8		ug/L		108	70 - 130
Ethylbenzene	50.0	52.8		ug/L		106	70 - 130
Ethyl methacrylate	50.0	49.0		ug/L		98	68 - 130
Hexachlorobutadiene	50.0	54.9		ug/L		110	53 - 140
2-Hexanone	200	208		ug/L		104	65 - 137
Isopropylbenzene	50.0	55.1		ug/L		110	70 - 130
Methylene bromide	50.0	50.3		ug/L		101	70 - 130
Methylene Chloride	50.0	46.3		ug/L		93	66 - 135
4-Methyl-2-pentanone (MIBK)	200	195		ug/L		98	69 - 138
Methyl tert-butyl ether	50.0	46.8		ug/L		94	66 - 130
m-Xylene & p-Xylene	50.0	53.0		ug/L		106	70 - 130
Naphthalene	50.0	50.3		ug/L		101	47 - 149
n-Butylbenzene	50.0	60.9		ug/L		122	67 - 130
N-Propylbenzene	50.0	57.4		ug/L		115	70 - 130
o-Chlorotoluene	50.0	54.9		ug/L		110	70 - 130
o-Xylene	50.0	52.0		ug/L		104	70 - 130
p-Chlorotoluene	50.0	55.6		ug/L		111	70 - 130
p-Isopropyltoluene	50.0	56.8		ug/L		114	65 - 130
sec-Butylbenzene	50.0	57.6		ug/L		115	66 - 130
Styrene	50.0	51.2		ug/L		102	70 - 130
tert-Butylbenzene	50.0	55.5		ug/L		111	64 - 139
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/L		100	67 - 131
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 131
Tetrachloroethene	50.0	49.1		ug/L		98	65 - 130
Toluene	50.0	51.4		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	63 - 130
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 138
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	60 - 140
1,1,1-Trichloroethane	50.0	49.5		ug/L		99	68 - 130
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	53.8		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	52.8		ug/L		106	65 - 138
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	50.0	55.3		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	50.0	55.7		ug/L		111	69 - 130
Vinyl acetate	100	106		ug/L		106	26 - 160
Vinyl chloride	50.0	49.1		ug/L		98	59 - 136
Xylenes, Total	100	105		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128424-3 MS
Matrix: Water
Analysis Batch: 327672

Client Sample ID: P114R-ROX-100716
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	149		ug/L		74	43 - 160
Acrolein	ND		500	465		ug/L		93	38 - 160
Acrylonitrile	ND		500	445		ug/L		89	62 - 149
Benzene	ND		50.0	50.0		ug/L		100	56 - 142
Bromobenzene	ND		50.0	52.4		ug/L		105	59 - 136
Bromochloromethane	ND		50.0	49.9		ug/L		100	64 - 140
Bromodichloromethane	ND		50.0	47.2		ug/L		94	59 - 143
Bromoform	ND		50.0	41.6		ug/L		83	50 - 140
Bromomethane	ND		50.0	33.8		ug/L		68	10 - 160
2-Butanone (MEK)	ND		200	163		ug/L		82	55 - 150
Carbon disulfide	ND		50.0	46.1		ug/L		92	48 - 152
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	55 - 145
Chlorobenzene	ND		50.0	53.9		ug/L		108	64 - 130
Dibromochloromethane	ND		50.0	46.5		ug/L		93	56 - 143
Chloroethane	ND		50.0	52.0		ug/L		104	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	3.20	J F1	ug/L		6	10 - 160
Chloroform	ND		50.0	51.1		ug/L		102	60 - 141
1-Chlorohexane	ND		50.0	51.8		ug/L		104	56 - 136
Chloromethane	ND		50.0	44.4		ug/L		89	49 - 148
cis-1,2-Dichloroethene	ND		50.0	51.0		ug/L		102	59 - 143
cis-1,3-Dichloropropene	ND		50.0	49.4		ug/L		99	57 - 140
1,2-Dichlorobenzene	ND		50.0	52.8		ug/L		106	52 - 137
1,3-Dichlorobenzene	ND		50.0	53.9		ug/L		108	54 - 135
1,4-Dichlorobenzene	ND		50.0	53.3		ug/L		107	53 - 135
Dichlorodifluoromethane	ND		50.0	38.0		ug/L		76	16 - 160
1,1-Dichloroethane	ND		50.0	52.7		ug/L		105	61 - 144
1,2-Dichloroethane	ND		50.0	53.5		ug/L		107	60 - 141
1,1-Dichloroethene	ND		50.0	50.2		ug/L		100	54 - 147
1,2-Dichloropropane	ND		50.0	50.2		ug/L		100	66 - 137
1,3-Dichloropropane	ND		50.0	51.2		ug/L		102	66 - 133
2,2-Dichloropropane	ND		50.0	49.4		ug/L		99	42 - 144
1,1-Dichloropropene	ND		50.0	54.1		ug/L		108	65 - 136
Ethylbenzene	ND		50.0	52.6		ug/L		105	58 - 131
Ethyl methacrylate	ND		50.0	48.1		ug/L		96	64 - 130
Hexachlorobutadiene	ND		50.0	51.9		ug/L		104	31 - 149
2-Hexanone	ND		200	181		ug/L		91	65 - 140
Isopropylbenzene	ND		50.0	53.9		ug/L		108	56 - 133
Methylene bromide	ND		50.0	50.2		ug/L		100	63 - 138
Methylene Chloride	ND		50.0	45.6		ug/L		91	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	182		ug/L		91	63 - 146
Methyl tert-butyl ether	ND		50.0	45.3		ug/L		91	59 - 137
m-Xylene & p-Xylene	ND		50.0	51.6		ug/L		103	57 - 130
Naphthalene	ND		50.0	47.6		ug/L		95	25 - 160
n-Butylbenzene	ND		50.0	60.1		ug/L		120	41 - 142
N-Propylbenzene	ND		50.0	56.2		ug/L		112	51 - 138
o-Chlorotoluene	ND		50.0	53.9		ug/L		108	53 - 134
o-Xylene	ND		50.0	51.8		ug/L		104	61 - 130
p-Chlorotoluene	ND		50.0	53.1		ug/L		106	54 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128424-3 MS
Matrix: Water
Analysis Batch: 327672

Client Sample ID: P114R-ROX-100716
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	ND		50.0	57.7		ug/L		115	48 - 139
sec-Butylbenzene	ND		50.0	57.5		ug/L		115	50 - 138
Styrene	ND		50.0	50.7		ug/L		101	58 - 131
tert-Butylbenzene	ND		50.0	56.7		ug/L		113	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	47.2		ug/L		94	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	52.2		ug/L		104	66 - 135
Tetrachloroethene	ND		50.0	46.0		ug/L		92	52 - 133
Toluene	ND		50.0	53.6		ug/L		107	65 - 130
trans-1,2-Dichloroethene	ND		50.0	50.7		ug/L		101	61 - 143
trans-1,3-Dichloropropene	ND		50.0	45.1		ug/L		90	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	51.5		ug/L		103	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	51.6		ug/L		103	39 - 148
1,1,1-Trichloroethane	ND		50.0	49.1		ug/L		98	57 - 142
1,1,2-Trichloroethane	ND		50.0	49.5		ug/L		99	66 - 131
Trichloroethene	ND		50.0	51.2		ug/L		102	64 - 136
Trichlorofluoromethane	ND		50.0	52.2		ug/L		104	54 - 156
1,2,3-Trichloropropane	ND		50.0	49.4		ug/L		99	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	55.9		ug/L		112	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	54.5		ug/L		109	52 - 135
Vinyl acetate	ND		100	100		ug/L		100	26 - 160
Vinyl chloride	ND		50.0	46.3		ug/L		93	46 - 152
Xylenes, Total	ND		100	103		ug/L		103	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 400-128424-3 MSD
Matrix: Water
Analysis Batch: 327672

Client Sample ID: P114R-ROX-100716
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	150		ug/L		75	43 - 160	1	30
Acrolein	ND		500	471		ug/L		94	38 - 160	1	31
Acrylonitrile	ND		500	446		ug/L		89	62 - 149	0	30
Benzene	ND		50.0	48.4		ug/L		97	56 - 142	3	30
Bromobenzene	ND		50.0	49.5		ug/L		99	59 - 136	6	30
Bromochloromethane	ND		50.0	48.0		ug/L		96	64 - 140	4	30
Bromodichloromethane	ND		50.0	45.0		ug/L		90	59 - 143	5	30
Bromoform	ND		50.0	41.3		ug/L		83	50 - 140	1	30
Bromomethane	ND		50.0	41.5		ug/L		83	10 - 160	20	50
2-Butanone (MEK)	ND		200	164		ug/L		82	55 - 150	1	30
Carbon disulfide	ND		50.0	44.7		ug/L		89	48 - 152	3	30
Carbon tetrachloride	ND		50.0	50.2		ug/L		100	55 - 145	1	30
Chlorobenzene	ND		50.0	49.9		ug/L		100	64 - 130	8	30
Dibromochloromethane	ND		50.0	44.5		ug/L		89	56 - 143	4	30
Chloroethane	ND		50.0	50.9		ug/L		102	50 - 151	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128424-3 MSD
Matrix: Water
Analysis Batch: 327672

Client Sample ID: P114R-ROX-100716
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether	ND	F1	50.0	3.28	J F1	ug/L		7	10 - 160	3	50
Chloroform	ND		50.0	49.2		ug/L		98	60 - 141	4	30
1-Chlorohexane	ND		50.0	48.9		ug/L		98	56 - 136	6	30
Chloromethane	ND		50.0	45.2		ug/L		90	49 - 148	2	31
cis-1,2-Dichloroethene	ND		50.0	50.2		ug/L		100	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	50.8		ug/L		102	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	50.8		ug/L		102	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	50.1		ug/L		100	53 - 135	6	30
Dichlorodifluoromethane	ND		50.0	39.8		ug/L		80	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	50.8		ug/L		102	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	53.3		ug/L		107	60 - 141	0	30
1,1-Dichloroethene	ND		50.0	48.5		ug/L		97	54 - 147	3	30
1,2-Dichloropropane	ND		50.0	51.2		ug/L		102	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	50.2		ug/L		100	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	47.1		ug/L		94	42 - 144	5	31
1,1-Dichloropropene	ND		50.0	50.3		ug/L		101	65 - 136	7	30
Ethylbenzene	ND		50.0	49.5		ug/L		99	58 - 131	6	30
Ethyl methacrylate	ND		50.0	44.9		ug/L		90	64 - 130	7	30
Hexachlorobutadiene	ND		50.0	52.4		ug/L		105	31 - 149	1	36
2-Hexanone	ND		200	180		ug/L		90	65 - 140	1	30
Isopropylbenzene	ND		50.0	50.4		ug/L		101	56 - 133	7	30
Methylene bromide	ND		50.0	49.7		ug/L		99	63 - 138	1	30
Methylene Chloride	ND		50.0	44.4		ug/L		89	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	179		ug/L		90	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	45.3		ug/L		91	59 - 137	0	30
m-Xylene & p-Xylene	ND		50.0	49.7		ug/L		99	57 - 130	4	30
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160	2	30
n-Butylbenzene	ND		50.0	57.2		ug/L		114	41 - 142	5	31
N-Propylbenzene	ND		50.0	54.3		ug/L		109	51 - 138	3	30
o-Chlorotoluene	ND		50.0	52.1		ug/L		104	53 - 134	3	30
o-Xylene	ND		50.0	48.5		ug/L		97	61 - 130	6	30
p-Chlorotoluene	ND		50.0	50.1		ug/L		100	54 - 133	6	30
p-Isopropyltoluene	ND		50.0	53.7		ug/L		107	48 - 139	7	30
sec-Butylbenzene	ND		50.0	54.3		ug/L		109	50 - 138	6	30
Styrene	ND		50.0	47.2		ug/L		94	58 - 131	7	30
tert-Butylbenzene	ND		50.0	53.3		ug/L		107	54 - 146	6	30
1,1,1,2-Tetrachloroethane	ND		50.0	44.7		ug/L		89	59 - 137	5	30
1,1,2,2-Tetrachloroethane	ND		50.0	50.6		ug/L		101	66 - 135	3	30
Tetrachloroethene	ND		50.0	42.6		ug/L		85	52 - 133	8	30
Toluene	ND		50.0	47.7		ug/L		95	65 - 130	12	30
trans-1,2-Dichloroethene	ND		50.0	48.6		ug/L		97	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	43.7		ug/L		87	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	49.9		ug/L		100	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	50.0		ug/L		100	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	48.4		ug/L		97	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	47.5		ug/L		95	66 - 131	4	30
Trichloroethene	ND		50.0	49.9		ug/L		100	64 - 136	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128424-3 MSD
Matrix: Water
Analysis Batch: 327672

Client Sample ID: P114R-ROX-100716
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		50.0	50.5		ug/L		101	54 - 156	3	30
1,2,3-Trichloropropane	ND		50.0	48.5		ug/L		97	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	51.7		ug/L		103	50 - 139	8	30
1,3,5-Trimethylbenzene	ND		50.0	51.8		ug/L		104	52 - 135	5	30
Vinyl acetate	ND		100	96.0		ug/L		96	26 - 160	4	33
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152	3	30
Xylenes, Total	ND		100	98.2		ug/L		98	59 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*109*		*81 - 121*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzenethiol	ND		10	1.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzoic acid	ND		30	7.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/11/16 09:31	10/13/16 11:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/11/16 09:31	10/13/16 11:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/11/16 09:31	10/13/16 11:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Chlorophenol	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/11/16 09:31	10/13/16 11:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/11/16 09:31	10/13/16 11:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/11/16 09:31	10/13/16 11:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Indene	ND		10	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
Isophorone	ND		10	0.57	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/11/16 09:31	10/13/16 11:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/11/16 09:31	10/13/16 11:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/11/16 09:31	10/13/16 11:56	1
Phenol	ND		10	2.6	ug/L		10/11/16 09:31	10/13/16 11:56	1
Pyridine	ND		10	3.2	ug/L		10/11/16 09:31	10/13/16 11:56	1
Quinoline	ND		10	6.0	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/11/16 09:31	10/13/16 11:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/11/16 09:31	10/13/16 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2-Fluorophenol	*59*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Nitrobenzene-d5	*127*	*X*	*27 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Phenol-d5	*87*		*10 - 120*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
Terphenyl-d14	*83*		*53 - 125*	*10/11/16 09:31*	*10/13/16 11:56*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/11/16 09:31*	*10/13/16 11:56*	*1*

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/11/16 09:31	10/14/16 17:40	1

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	22.9		ug/L		76	10 - 145
Benzenethiol	100	12.3	*	ug/L		12	20 - 150
Benzoic acid	126	107		ug/L		85	10 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	30.0	25.7		ug/L		86	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	27.7		ug/L		92	47 - 120
bis (2-chloroisopropyl) ether	30.0	28.2		ug/L		94	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.9		ug/L		93	62 - 140
4-Bromophenyl phenyl ether	30.0	27.9		ug/L		93	62 - 132
Butyl benzyl phthalate	30.0	26.8		ug/L		89	51 - 150
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	27.3		ug/L		91	24 - 150
2-Chlorophenol	30.0	24.1		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.4		ug/L		98	61 - 133
Dibenz[a,h]acridine	30.0	32.6		ug/L		109	60 - 131
Dibenzofuran	30.0	27.7		ug/L		92	62 - 124
3,3'-Dichlorobenzidine	40.0	31.3		ug/L		78	16 - 167
2,4-Dichlorophenol	30.0	27.7		ug/L		92	52 - 125
Diethyl phthalate	30.0	27.4		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	25.7		ug/L		86	52 - 121
Dimethyl phthalate	30.0	28.2		ug/L		94	50 - 133
Di-n-butyl phthalate	30.0	27.5		ug/L		92	59 - 144
4,6-Dinitro-ortho-cresol	60.0	58.7		ug/L		98	46 - 136
2,4-Dinitrophenol	101	110		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	29.1		ug/L		97	54 - 141
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130
Di-n-octyl phthalate	30.0	29.4		ug/L		98	55 - 140
1,4-Dioxane	30.0	13.8		ug/L		46	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.5		ug/L		75	55 - 139
Hexachlorobenzene	30.0	29.3		ug/L		98	60 - 138
Hexachlorocyclopentadiene	30.0	22.4		ug/L		75	1 - 139
Hexachloroethane	30.0	18.0		ug/L		60	46 - 121
Indene	30.0	13.1		ug/L		44	17 - 141
Isophorone	30.0	24.0		ug/L		80	57 - 122
2-Methylphenol	30.0	28.3		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	17.5	J	ug/L		58	43 - 126
2-Nitroaniline	30.0	29.8		ug/L		99	52 - 135
3-Nitroaniline	30.0	22.7		ug/L		76	51 - 128
4-Nitroaniline	30.0	24.8		ug/L		83	38 - 141
Nitrobenzene	30.0	23.9		ug/L		80	52 - 128
2-Nitrophenol	30.0	29.0		ug/L		97	47 - 129
4-Nitrophenol	60.0	54.4		ug/L		91	34 - 137
N-Nitrosodimethylamine	30.0	29.2		ug/L		97	21 - 134
N-Nitrosodiphenylamine	29.8	25.7		ug/L		86	10 - 185
Pentachlorophenol	60.0	51.8		ug/L		86	38 - 138
Phenol	30.0	25.8		ug/L		86	37 - 120
Pyridine	30.0	18.9		ug/L		63	10 - 127
Quinoline	30.0	28.4		ug/L		95	10 - 164
2,4,5-Trichlorophenol	30.0	30.5		ug/L		102	53 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	30.0	27.6		ug/L		92	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*81*		*27 - 120*
Phenol-d5	*88*		*10 - 120*
Terphenyl-d14	*97*		*53 - 125*
2,4,6-Tribromophenol	*114*		*15 - 135*

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	30.0	24.0		ug/L		80	41 - 143

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		30.0	13.1		ug/L		44	10 - 143
Benzenethiol	ND	F1 *	100	ND	F1	ug/L		0	50 - 150
Benzoic acid	ND		126	79.9		ug/L		64	10 - 134
Benzyl alcohol	ND		30.0	19.8		ug/L		66	10 - 154
Bis(2-chloroethoxy)methane	ND		30.0	19.3		ug/L		64	14 - 147
Bis(2-chloroethyl)ether	ND		30.0	18.3		ug/L		61	28 - 130
bis (2-chloroisopropyl) ether	ND		30.0	16.0		ug/L		53	10 - 141
Bis(2-ethylhexyl) phthalate	ND	F2 F1	30.0	20.2		ug/L		67	43 - 160
4-Bromophenyl phenyl ether	ND		30.0	20.7		ug/L		69	26 - 159
Butyl benzyl phthalate	ND		30.0	19.5		ug/L		65	43 - 151
4-Chloroaniline	ND		30.0	10.9		ug/L		36	10 - 152
4-Chloro-3-methylphenol	ND		30.0	20.2		ug/L		67	17 - 156
2-Chloronaphthalene	ND		30.0	22.3		ug/L		74	10 - 155
2-Chlorophenol	ND		30.0	16.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		30.0	22.4		ug/L		75	25 - 161
Dibenz[a,h]acridine	ND	*	30.0	25.5		ug/L		85	42 - 147
Dibenzofuran	ND		30.0	21.7		ug/L		72	18 - 157
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		30.0	19.4		ug/L		65	16 - 147
Diethyl phthalate	ND		30.0	18.4		ug/L		61	23 - 160
2,4-Dimethylphenol	ND		30.0	18.9		ug/L		63	25 - 146
Dimethyl phthalate	ND		30.0	19.2		ug/L		64	11 - 158
Di-n-butyl phthalate	ND		30.0	20.1		ug/L		67	28 - 162
4,6-Dinitro-ortho-cresol	ND		60.0	42.5		ug/L		71	10 - 168
2,4-Dinitrophenol	ND		101	79.1		ug/L		78	10 - 166
2,4-Dinitrotoluene	ND		30.0	23.2		ug/L		77	26 - 158

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	ND		30.0	22.3		ug/L		74	19 - 157
Di-n-octyl phthalate	ND		30.0	18.3		ug/L		61	42 - 150
1,4-Dioxane	ND		30.0	12.7		ug/L		42	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	17.2		ug/L		57	19 - 162
Hexachlorobenzene	ND		30.0	20.5		ug/L		68	45 - 145
Hexachlorocyclopentadiene	ND		30.0	13.3	J	ug/L		44	10 - 151
Hexachloroethane	ND		30.0	17.9		ug/L		60	29 - 130
Indene	ND		30.0	17.0		ug/L		57	22 - 130
Isophorone	ND	F2	30.0	18.8		ug/L		63	24 - 144
2-Methylphenol	ND		30.0	17.4		ug/L		58	22 - 130
3 & 4 Methylphenol	ND		30.0	16.2	J	ug/L		54	31 - 130
2-Nitroaniline	ND		30.0	22.5		ug/L		75	10 - 162
3-Nitroaniline	ND		30.0	13.2		ug/L		44	10 - 163
4-Nitroaniline	ND		30.0	16.9		ug/L		56	10 - 162
Nitrobenzene	ND	F2	30.0	19.0		ug/L		63	34 - 135
2-Nitrophenol	ND		30.0	21.1		ug/L		70	27 - 134
4-Nitrophenol	ND		60.0	37.7		ug/L		63	10 - 175
N-Nitrosodimethylamine	ND		30.0	17.7		ug/L		59	10 - 139
N-Nitrosodi-n-propylamine	ND	F2	30.0	17.4		ug/L		58	13 - 147
N-Nitrosodiphenylamine	ND	F2	29.8	9.77	J	ug/L		33	31 - 150
Pentachlorophenol	ND		60.0	46.0		ug/L		77	10 - 180
Phenol	ND		30.0	16.9		ug/L		56	23 - 130
Pyridine	ND		30.0	12.3		ug/L		41	10 - 130
Quinoline	ND		30.0	21.2		ug/L		71	10 - 180
2,4,5-Trichlorophenol	ND		30.0	21.4		ug/L		71	43 - 137
2,4,6-Trichlorophenol	ND		30.0	20.9		ug/L		70	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 120*
2-Fluorophenol	*46*		*10 - 120*
Nitrobenzene-d5	*65*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*61*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		30.0	11.4		ug/L		38	10 - 143	14	63
Benzenethiol	ND	F1 *	100	ND	F1	ug/L		0	50 - 150	NC	40
Benzoic acid	ND		126	85.7		ug/L		68	10 - 134	7	49
Benzyl alcohol	ND		30.0	21.8		ug/L		73	10 - 154	10	37
Bis(2-chloroethoxy)methane	ND		30.0	20.9		ug/L		70	14 - 147	8	70
Bis(2-chloroethyl)ether	ND		30.0	22.9		ug/L		76	28 - 130	22	42
bis (2-chloroisopropyl) ether	ND		30.0	22.4		ug/L		75	10 - 141	33	41

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587 — **Prep Batch: 326226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	ND	F2 F1	30.0	53.4	F1 F2	ug/L		178	43 - 160	90	35
4-Bromophenyl phenyl ether	ND		30.0	24.0		ug/L		80	26 - 159	15	30
Butyl benzyl phthalate	ND		30.0	23.2		ug/L		77	43 - 151	17	32
4-Chloroaniline	ND		30.0	10.1		ug/L		34	10 - 152	8	94
4-Chloro-3-methylphenol	ND		30.0	21.0		ug/L		70	17 - 156	4	40
2-Chloronaphthalene	ND		30.0	23.7		ug/L		79	10 - 155	6	29
2-Chlorophenol	ND		30.0	20.6		ug/L		69	19 - 130	23	42
4-Chlorophenyl phenyl ether	ND		30.0	25.2		ug/L		84	25 - 161	12	27
Dibenz[a,h]acridine	ND	*	30.0	26.1		ug/L		87	42 - 147	2	40
Dibenzofuran	ND		30.0	24.4		ug/L		81	18 - 157	12	29
3,3'-Dichlorobenzidine	ND	F1	40.0	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		30.0	19.9		ug/L		66	16 - 147	2	43
Diethyl phthalate	ND		30.0	20.5		ug/L		68	23 - 160	11	40
2,4-Dimethylphenol	ND		30.0	20.5		ug/L		68	25 - 146	8	47
Dimethyl phthalate	ND		30.0	20.5		ug/L		68	11 - 158	7	36
Di-n-butyl phthalate	ND		30.0	23.4		ug/L		78	28 - 162	15	32
4,6-Dinitro-ortho-cresol	ND		60.0	40.2		ug/L		67	10 - 168	6	42
2,4-Dinitrophenol	ND		101	69.9		ug/L		69	10 - 166	12	36
2,4-Dinitrotoluene	ND		30.0	25.4		ug/L		85	26 - 158	9	28
2,6-Dinitrotoluene	ND		30.0	24.2		ug/L		81	19 - 157	8	28
Di-n-octyl phthalate	ND		30.0	23.8		ug/L		79	42 - 150	26	35
1,4-Dioxane	ND		30.0	12.2		ug/L		41	10 - 130	4	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	19.8		ug/L		66	19 - 162	14	40
Hexachlorobenzene	ND		30.0	24.5		ug/L		82	45 - 145	18	33
Hexachlorocyclopentadiene	ND		30.0	13.5	J	ug/L		45	10 - 151	1	50
Hexachloroethane	ND		30.0	23.2		ug/L		77	29 - 130	26	41
Indene	ND		30.0	22.2		ug/L		74	22 - 130	27	40
Isophorone	ND	F2	30.0	30.4	F2	ug/L		101	24 - 144	47	33
2-Methylphenol	ND		30.0	20.5		ug/L		68	22 - 130	17	47
3 & 4 Methylphenol	ND		30.0	20.4		ug/L		68	31 - 130	23	47
2-Nitroaniline	ND		30.0	24.2		ug/L		81	10 - 162	8	33
3-Nitroaniline	ND		30.0	13.4		ug/L		45	10 - 163	2	39
4-Nitroaniline	ND		30.0	18.0		ug/L		60	10 - 162	7	50
Nitrobenzene	ND	F2	30.0	32.1	F2	ug/L		107	34 - 135	51	35
2-Nitrophenol	ND		30.0	23.5		ug/L		78	27 - 134	11	43
4-Nitrophenol	ND		60.0	34.9		ug/L		58	10 - 175	8	82
N-Nitrosodimethylamine	ND		30.0	23.0		ug/L		77	10 - 139	26	62
N-Nitrosodi-n-propylamine	ND	F2	30.0	25.6	F2	ug/L		85	13 - 147	38	36
N-Nitrosodiphenylamine	ND	F2	29.8	16.8	F2	ug/L		57	31 - 150	53	34
Pentachlorophenol	ND		60.0	53.1		ug/L		89	10 - 180	14	42
Phenol	ND		30.0	16.0		ug/L		53	23 - 130	5	52
Pyridine	ND		30.0	10.9		ug/L		36	10 - 130	12	55
Quinoline	ND		30.0	14.7		ug/L		49	10 - 180	36	40
2,4,5-Trichlorophenol	ND		30.0	22.1		ug/L		74	43 - 137	3	42
2,4,6-Trichlorophenol	ND		30.0	21.4		ug/L		71	42 - 135	3	44

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol	*55*		*10 - 120*
Nitrobenzene-d5	*107*		*27 - 120*
Phenol-d5	*54*		*10 - 120*
Terphenyl-d14	*49*	*X*	*53 - 125*
2,4,6-Tribromophenol	*85*		*15 - 135*

Lab Sample ID: 400-128442-D-1-B MS
Matrix: Water
Analysis Batch: 326590

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		125	91.7		ug/L		73	10 - 143
Benzoic acid	ND		523	545		ug/L		104	10 - 134
Benzyl alcohol	ND		125	106		ug/L		84	10 - 154
Bis(2-chloroethoxy)methane	ND		125	110		ug/L		88	14 - 147
Bis(2-chloroethyl)ether	ND		125	112		ug/L		89	28 - 130
bis (2-chloroisopropyl) ether	ND		125	116		ug/L		93	10 - 141
Bis(2-ethylhexyl) phthalate	220		125	330		ug/L		85	43 - 160
4-Bromophenyl phenyl ether	ND		125	126		ug/L		101	26 - 159
Butyl benzyl phthalate	ND		125	126		ug/L		101	43 - 151
4-Chloroaniline	ND		125	67.2		ug/L		54	10 - 152
4-Chloro-3-methylphenol	ND		125	129		ug/L		103	17 - 156
2-Chloronaphthalene	ND		125	123		ug/L		98	10 - 155
2-Chlorophenol	ND		125	107		ug/L		86	19 - 130
4-Chlorophenyl phenyl ether	ND		125	125		ug/L		100	25 - 161
Dibenzofuran	ND		125	125		ug/L		100	18 - 157
3,3'-Dichlorobenzidine	ND		167	99.8		ug/L		60	10 - 172
2,4-Dichlorophenol	ND		125	114		ug/L		92	16 - 147
Diethyl phthalate	ND		125	124		ug/L		99	23 - 160
2,4-Dimethylphenol	ND		125	113		ug/L		90	25 - 146
Dimethyl phthalate	ND		125	123		ug/L		99	11 - 158
Di-n-butyl phthalate	ND		125	132		ug/L		106	28 - 162
4,6-Dinitro-ortho-cresol	ND		250	265		ug/L		106	10 - 168
2,4-Dinitrophenol	ND		422	480		ug/L		114	10 - 166
2,4-Dinitrotoluene	ND		125	162		ug/L		130	26 - 158
2,6-Dinitrotoluene	ND		125	141		ug/L		113	19 - 157
Di-n-octyl phthalate	ND		125	140		ug/L		112	42 - 150
1,4-Dioxane	ND		125	89.0		ug/L		71	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		125	106		ug/L		85	19 - 162
Hexachlorobenzene	ND		125	140		ug/L		112	45 - 145
Hexachlorocyclopentadiene	ND		125	49.3	J	ug/L		39	10 - 151
Hexachloroethane	ND		125	105		ug/L		84	29 - 130
Indene	ND		125	120		ug/L		96	22 - 130
Isophorone	ND		125	114		ug/L		91	24 - 144
2-Methylphenol	ND		125	123		ug/L		98	22 - 130
3 & 4 Methylphenol	ND		125	116		ug/L		93	31 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128442-D-1-B MS
Matrix: Water
Analysis Batch: 326590

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	ND		125	142		ug/L		114	10 - 162
3-Nitroaniline	ND		125	105		ug/L		84	10 - 163
4-Nitroaniline	ND		125	130		ug/L		104	10 - 162
Nitrobenzene	ND		125	108		ug/L		86	34 - 135
2-Nitrophenol	ND		125	127		ug/L		101	27 - 134
4-Nitrophenol	ND		250	248		ug/L		99	10 - 175
N-Nitrosodimethylamine	ND		125	97.5		ug/L		78	10 - 139
N-Nitrosodi-n-propylamine	ND		125	118		ug/L		94	13 - 147
N-Nitrosodiphenylamine	ND		124	86.3		ug/L		70	31 - 150
Pentachlorophenol	ND		250	236		ug/L		94	10 - 180
Phenol	ND		125	105		ug/L		84	23 - 130
Pyridine	ND		125	94.7		ug/L		76	10 - 130
2,4,5-Trichlorophenol	ND		125	139		ug/L		111	43 - 137
2,4,6-Trichlorophenol	ND		125	131		ug/L		105	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*34 - 120*
2-Fluorophenol	*86*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*
Phenol-d5	*86*		*10 - 120*
Terphenyl-d14	*99*		*53 - 125*
2,4,6-Tribromophenol	*144*	*X*	*15 - 135*

Lab Sample ID: 400-128442-D-1-C MSD
Matrix: Water
Analysis Batch: 326590

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		125	96.8		ug/L		77	10 - 143	5	63
Benzoic acid	ND		523	461		ug/L		88	10 - 134	17	49
Benzyl alcohol	ND		125	98.8		ug/L		79	10 - 154	7	37
Bis(2-chloroethoxy)methane	ND		125	104		ug/L		83	14 - 147	6	70
Bis(2-chloroethyl)ether	ND		125	112		ug/L		89	28 - 130	0	42
bis (2-chloroisopropyl) ether	ND		125	102		ug/L		82	10 - 141	13	41
Bis(2-ethylhexyl) phthalate	220		125	344		ug/L		97	43 - 160	4	35
4-Bromophenyl phenyl ether	ND		125	129		ug/L		103	26 - 159	2	30
Butyl benzyl phthalate	ND		125	125		ug/L		100	43 - 151	1	32
4-Chloroaniline	ND		125	76.6		ug/L		61	10 - 152	13	94
4-Chloro-3-methylphenol	ND		125	125		ug/L		100	17 - 156	3	40
2-Chloronaphthalene	ND		125	119		ug/L		95	10 - 155	3	29
2-Chlorophenol	ND		125	104		ug/L		83	19 - 130	3	42
4-Chlorophenyl phenyl ether	ND		125	123		ug/L		99	25 - 161	2	27
Dibenzofuran	ND		125	123		ug/L		99	18 - 157	1	29
3,3'-Dichlorobenzidine	ND		167	112		ug/L		67	10 - 172	12	58
2,4-Dichlorophenol	ND		125	113		ug/L		90	16 - 147	2	43
Diethyl phthalate	ND		125	121		ug/L		97	23 - 160	2	40
2,4-Dimethylphenol	ND		125	108		ug/L		86	25 - 146	5	47
Dimethyl phthalate	ND		125	124		ug/L		99	11 - 158	1	36

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128442-D-1-C MSD
Matrix: Water
Analysis Batch: 326590

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate	ND		125	133		ug/L		107	28 - 162	1	32
4,6-Dinitro-ortho-cresol	ND		250	267		ug/L		107	10 - 168	1	42
2,4-Dinitrophenol	ND		422	443		ug/L		105	10 - 166	8	36
2,4-Dinitrotoluene	ND		125	156		ug/L		125	26 - 158	4	28
2,6-Dinitrotoluene	ND		125	139		ug/L		111	19 - 157	1	28
Di-n-octyl phthalate	ND		125	133		ug/L		106	42 - 150	5	35
1,4-Dioxane	ND		125	83.2		ug/L		67	10 - 130	7	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		125	115		ug/L		92	19 - 162	8	40
Hexachlorobenzene	ND		125	146		ug/L		117	45 - 145	4	33
Hexachlorocyclopentadiene	ND		125	42.7	J	ug/L		34	10 - 151	14	50
Hexachloroethane	ND		125	95.3		ug/L		76	29 - 130	9	41
Indene	ND		125	90.6		ug/L		72	22 - 130	28	40
Isophorone	ND		125	104		ug/L		84	24 - 144	8	33
2-Methylphenol	ND		125	113		ug/L		90	22 - 130	8	47
3 & 4 Methylphenol	ND		125	103		ug/L		83	31 - 130	12	47
2-Nitroaniline	ND		125	133		ug/L		107	10 - 162	6	33
3-Nitroaniline	ND		125	94.5		ug/L		76	10 - 163	11	39
4-Nitroaniline	ND		125	116		ug/L		93	10 - 162	11	50
Nitrobenzene	ND		125	102		ug/L		81	34 - 135	6	35
2-Nitrophenol	ND		125	121		ug/L		97	27 - 134	4	43
4-Nitrophenol	ND		250	213		ug/L		85	10 - 175	15	82
N-Nitrosodimethylamine	ND		125	89.4		ug/L		72	10 - 139	9	62
N-Nitrosodi-n-propylamine	ND		125	102		ug/L		82	13 - 147	14	36
N-Nitrosodiphenylamine	ND		124	98.2		ug/L		79	31 - 150	13	34
Pentachlorophenol	ND		250	227		ug/L		91	10 - 180	4	42
Phenol	ND		125	107		ug/L		85	23 - 130	2	52
Pyridine	ND		125	86.8		ug/L		69	10 - 130	9	55
2,4,5-Trichlorophenol	ND		125	128		ug/L		102	43 - 137	8	42
2,4,6-Trichlorophenol	ND		125	125		ug/L		100	42 - 135	5	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*34 - 120*
2-Fluorophenol	*76*		*10 - 120*
Nitrobenzene-d5	*80*		*27 - 120*
Phenol-d5	*88*		*10 - 120*
Terphenyl-d14	*102*		*53 - 125*
2,4,6-Tribromophenol	*130*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-326226/1-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Chrysene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Fluorene	ND		0.20	0.021	ug/L		10/11/16 09:31	10/12/16 21:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/11/16 09:31	10/12/16 21:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
Pyrene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/11/16 09:31	10/12/16 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*33 - 138*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
2-Fluorobiphenyl	*58*		*15 - 122*	*10/11/16 09:31*	*10/12/16 21:46*	*1*
Nitrobenzene-d5	*58*		*19 - 130*	*10/11/16 09:31*	*10/12/16 21:46*	*1*

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.2		ug/L		91	41 - 120
Acenaphthylene	30.0	0.274	J *	ug/L		0.9	44 - 120
Anthracene	30.0	28.0		ug/L		93	49 - 120
Benzo[a]anthracene	30.0	26.9		ug/L		90	61 - 135
Benzo[a]pyrene	30.0	26.8		ug/L		89	52 - 120
Benzo[b]fluoranthene	30.0	27.5		ug/L		92	53 - 134
Benzo[g,h,i]perylene	30.0	27.9		ug/L		93	47 - 133
Benzo[k]fluoranthene	30.0	27.5		ug/L		92	57 - 134
Chrysene	30.0	27.1		ug/L		90	55 - 122
Dibenz(a,h)anthracene	30.0	29.1		ug/L		97	48 - 146
Fluoranthene	30.0	29.2		ug/L		97	54 - 128
Fluorene	30.0	28.5		ug/L		95	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	28.4		ug/L		95	43 - 142
Phenanthrene	30.0	27.7		ug/L		92	48 - 120
Pyrene	30.0	25.8		ug/L		86	48 - 132
1-Methylnaphthalene	30.0	23.4		ug/L		78	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*86*		*33 - 138*
2-Fluorobiphenyl	*87*		*15 - 122*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-326226/2-A
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326226

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	73		19 - 130

Lab Sample ID: 400-128416-E-3-B MS
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		30.0	27.7		ug/L		92	35 - 113
Acenaphthylene	ND	F1 *	30.0	9.41	F1	ug/L		31	41 - 118
Anthracene	ND		30.0	25.4		ug/L		85	45 - 122
Benzo[a]anthracene	ND		30.0	22.3		ug/L		74	55 - 133
Benzo[a]pyrene	ND		30.0	19.9		ug/L		66	50 - 108
Benzo[b]fluoranthene	ND		30.0	21.9		ug/L		73	50 - 128
Benzo[g,h,i]perylene	ND		30.0	21.0		ug/L		70	46 - 133
Benzo[k]fluoranthene	ND		30.0	21.7		ug/L		72	52 - 128
Chrysene	ND		30.0	23.1		ug/L		77	52 - 116
Dibenz(a,h)anthracene	ND		30.0	21.3		ug/L		71	52 - 143
Fluoranthene	ND		30.0	27.6		ug/L		92	32 - 150
Fluorene	ND		30.0	28.4		ug/L		95	15 - 150
Indeno[1,2,3-cd]pyrene	ND		30.0	21.0		ug/L		70	41 - 141
Phenanthrene	ND		30.0	28.1		ug/L		94	36 - 125
Pyrene	ND		30.0	25.5		ug/L		85	41 - 127
1-Methylnaphthalene	0.020	J	30.0	23.4		ug/L		78	10 - 150
2-Methylnaphthalene	0.024	J	30.0	23.3		ug/L		78	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	63		33 - 138
2-Fluorobiphenyl	90		15 - 122
Nitrobenzene-d5	77		19 - 130

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		30.0	26.1		ug/L		87	35 - 113	6	49
Acenaphthylene	ND	F1 *	30.0	11.0	F1	ug/L		37	41 - 118	16	48
Anthracene	ND		30.0	25.1		ug/L		84	45 - 122	1	56
Benzo[a]anthracene	ND		30.0	22.5		ug/L		75	55 - 133	1	57
Benzo[a]pyrene	ND		30.0	21.2		ug/L		71	50 - 108	6	59
Benzo[b]fluoranthene	ND		30.0	22.0		ug/L		73	50 - 128	0	62
Benzo[g,h,i]perylene	ND		30.0	22.1		ug/L		74	46 - 133	5	58
Benzo[k]fluoranthene	ND		30.0	22.7		ug/L		76	52 - 128	4	58
Chrysene	ND		30.0	23.0		ug/L		77	52 - 116	0	59
Dibenz(a,h)anthracene	ND		30.0	23.1		ug/L		77	52 - 143	8	60
Fluoranthene	ND		30.0	27.0		ug/L		90	32 - 150	2	59
Fluorene	ND		30.0	27.2		ug/L		91	15 - 150	4	49
Indeno[1,2,3-cd]pyrene	ND		30.0	22.4		ug/L		75	41 - 141	7	58

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128416-E-3-C MSD
Matrix: Water
Analysis Batch: 326641

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 326226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene	ND		30.0	26.6		ug/L		89	36 - 125	5	69
Pyrene	ND		30.0	24.1		ug/L		80	41 - 127	6	58
1-Methylnaphthalene	0.020	J	30.0	22.3		ug/L		74	10 - 150	5	66
2-Methylnaphthalene	0.024	J	30.0	22.2		ug/L		74	10 - 150	5	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*45*		*33 - 138*
2-Fluorobiphenyl	*80*		*15 - 122*
Nitrobenzene-d5	*70*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327020/1-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/17/16 13:11	10/18/16 19:20	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/17/16 13:11	10/18/16 19:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*126*		*51 - 149*	*10/17/16 13:11*	*10/18/16 19:20*	*1*

Lab Sample ID: LCS 400-327020/2-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0822		ug/L		82	60 - 140
1,2-Dibromoethane	0.100	0.0939		ug/L		94	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*135*		*51 - 149*

Lab Sample ID: LCSD 400-327020/3-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0780		ug/L		78	60 - 140	5	30
1,2-Dibromoethane	0.100	0.0967		ug/L		97	60 - 140	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*124*		*51 - 149*

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Shell Oil Products US Chain Of Custody Record

AECOM

Please Check Appropriate Box:		
☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☑ OTHER _ENV. SERVICES	

Print Bill To Contact Name:	PlaNet Site or Project ID
Bob Billman	25278
PO #	**GSAP Project ID**
60477387 - 1.03.004 / 1.03.0044	USPC/00114/R/02

☐ CHECK IF NO INCIDENT# APPLIES

DATE: 7 Oct. 2016

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA | State: IL | AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location) | PHONE NO. | E-MAIL | AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): J. Clark / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100 | FAX: 314-429-0462 | Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL

NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

400-128424 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-100716-8011	10/7/16	0000	WATER	2					2	X			
	TB-ROX-100716-8260	"	0000	"	2					2			X	
	P114R-ROX-100716	"	1125	"	4			2		6	X	X	X	X
	MW13-ROX-100716-EB	"	1205	"	4			2		6	X	X	X	X
	MW13-ROX-100716	"	1235	"	4			2		6	X	X	X	X
	MW3-ROX-100716	"	1455	"	4			2		6	X	X	X	X

7 Oct. 2016

Relinquished by: (Signature)	Received	Date	Time
Relinquished by: (Signature)	Received	Date	Time
Relinquished by: (Signature)	Received	Date	Time

Ref: S400-52239 Dep:

Date: 25Jan16 Wgt: 10.00 LBS

DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

SVCS: PRIORITY OVERNIGHT
TRCK: 6546 8382 3701

Version: 14Dec15

Page 62 of 64

12/5/2016

Custody Seals: Test America: 665131-665140

10/08/16 9:05

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128424-1
SDG Number: 60477387-1.03.0044/1.03.004

Login Number: 128424
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C,0.9°C,1.2°C-IR6 1.9°C,1.5°C-IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128424-1
SDG: 60477387-1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128513-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/23/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101016-A-8011	TB-ROX-101016-A-8260
MW5-ROX-101016	MW6D-ROX-101016
MW6D-ROX-101016-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 several SVOCs were re-extracted outside of the extraction holding time. 1,4-Dioxane was detected in the method blank. Several SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria. Several SVOC LCS/LCSD surrogate recoveries were outside criteria. These issues are addressed further in the appropriate sections below.

Additionally, the continuing calibration verification for diethyl phthalate was outside evaluation criteria, biased low, and the continuing calibration verification for n-nitrosodimethylamine exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 1.2°C, which is outside the 4°C ± 2°C criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, several SVOCs were re-extracted 7 days outside of the extraction holding time criteria (7 days) due to surrogate failure in the initial LCS quality control sample. Holding and extraction time exceedances were not greater than two times (2X) criteria; data requiring qualification is summarized in the following table.

Sample ID	Parameter	Analyte	Qualification
MW5-ROX-101016 Run#2	SVOCs	All non-detects	**UJ**

Sample ID	Parameter	Analyte	Qualification
MW6D-ROX-101016 Run#2	SVOCs	All non-detects	**UJ**
MW6D-ROX-101016-Dup Run#2	SVOCs	All non-detects	**UJ**

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MB 400-328076/1-A	SVOCs	1,4-Dioxane	2.23 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. Method blank MB 400-328076/1-A is associated with the confirmation run of sample MW5-ROX-101016; 1,4-dioxane in sample MW5-ROX-101016 is reported from the initial run. 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
LCS/LCSD 400-326605/16-A/17-A	SVOCs	Benzenethiol	**5**/75	**178**	20-150/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Benzoic acid	**0**/71	**200**	10-120/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Benzyl alcohol	**36/35**	2	51-121/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	4-Chloro-3-methylphenol	**3**/81	**187**	47-135/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2-Chlorophenol	**0**/60	**200**	45-120/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2,4-Dichlorophenol	**0**/76	**200**	52-125/76
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Diethyl phthalate	**20**/84	**123**	55-140/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2,4-Dimethylphenol	**16**/77	**133**	52-121/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Dimethyl phthalate	**8**/82	**166**	50-133/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	4,6-Dinitro-ortho-cresol	**0**/87	**200**	46-136/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2,4-Dinitrophenol	**0**/91	**200**	22-146/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Hexachlorocyclopentadiene	33/47	**35**	1-139/30

LCS/LCSD ID	Parameter	Analyte	LCS/ LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2-Methylphenol	**13**/85	**146**	38-121/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	3&4-Methylphenol	**0**/70	**200**	43-126/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	4-Nitroaniline	113/71	**45**	38-141/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2-Nitrophenol	**0**/80	**200**	47-129/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	4-Nitrophenol	**0**/72	**200**	34-137/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Pentachlorophenol	**6**/67	**169**	38-138/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	Phenol	**0**/67	**200**	37-120/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2,4,5-Trichlorophenol	**0**/83	**200**	53-130/30
LCS/LCSD 400-326605/2-A/3-A	SVOCs Run#1	2,4,6-Trichlorophenol	**0**/74	**200**	52-131/30

Analytes associated with LCS/LCSD recoveries outside evaluation criteria were reported from sample confirmation runs (Run#2), and are qualified due to holding time criteria in Section 3.0 of this review. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
LCS 400-326605/2-A	SVOCs	2-Fluorophenol	**0**	10-120
LCS 400-326605/2-A	SVOCs	Phenol-d_5	**0**	10-120
LCS 400-326605/2-A	SVOCs	2,4,6-Tribromophenol	**2**	15-135
LCSD 400-326605/17-A	SVOCs	2-Fluorobiphenyl	**15**	34-120
LCSD 400-326605/17-A	SVOCs	Nitrobenzene-d_5	**14**	27-120
LCSD 400-326605/17-A	SVOCs	Terphenyl-d_{14}	**16**	53-125
LCSD 400-326605/17-A	SVOCs	2,4,6-Tribromophenol	**14**	15-135

LCS 400-326605/2-A and LCSD 400-326605/17-A are quality control samples, and do not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW6D-ROX-101016	MW6D-ROX-101016-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

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

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for diethyl phthalate was below acceptance criteria; however diethyl phthalate was previously qualified due to holding time criteria in Section 3.0 of this review. No additional qualification of diethyl phthalate was required.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128513-1
TestAmerica SDG: 60477387-1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY GW

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn D. Hooper

Authorized for release by:
11/7/2016 6:06:08 PM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

LINKS

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Reviewed 11/23/2016 MH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128513-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128513-1

Receipt
The samples were received on 10/11/2016 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101016-A-8260 (400-128513-2), MW5-ROX-101016 (400-128513-3), MW6D-ROX-101016 (400-128513-4) and MW6D-ROX-101016-DUP (400-128513-5). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327688 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-327688 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D: The method blank for preparation batch 400-328076 and analytical batch 400-328716 contained 1,4-Dioxane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-326605 and analytical batch 400-327141 recovered outside control limits for the following analyte: Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW6D-ROX-101016-DUP (400-128513-5). These results have been reported and qualified.

Surrogate recovery for the following samples was outside control limits: (LCS 400-326605/2-A) and (LCSD 400-326605/17-A). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

The continuing calibration verification (CCV) analyzed in batch 400-327141 was outside the method criteria for the following analyte(s): Diethyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 400-327141 recovered above the upper control limit for N-Nitrosodimethylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW5-ROX-101016 (400-128513-3), MW6D-ROX-101016 (400-128513-4) and MW6D-ROX-101016-DUP (400-128513-5).

The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for preparation batch 400-326605 and 400-328076 and analytical batch 400-327141 recovered outside control limits for the following flagged analytes. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 400-128513-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-326605 and 400-328076

Method 3520C: The following samples were re-prepared outside of preparation holding time due to Surrogate failure: MW5-ROX-101016 (400-128513-3), MW6D-ROX-101016 (400-128513-4) and MW6D-ROX-101016-DUP (400-128513-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128513-1	TB-ROX-101016-A-8011	Water	10/10/16 00:00	10/11/16 09:34
400-128513-2	TB-ROX-101016-A-8260	Water	10/10/16 00:00	10/11/16 09:34
400-128513-3	MW5-ROX-101016	Water	10/10/16 09:05	10/11/16 09:34
400-128513-4	MW6D-ROX-101016	Water	10/10/16 11:30	10/11/16 09:34
400-128513-5	MW6D-ROX-101016-DUP	Water	10/10/16 11:30	10/11/16 09:34

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-101016-A-8011 — Lab Sample ID: 400-128513-1

No Detections.

Client Sample ID: TB-ROX-101016-A-8260 — Lab Sample ID: 400-128513-2

No Detections.

Client Sample ID: MW5-ROX-101016 — Lab Sample ID: 400-128513-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1.1		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	7.9		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
o-Xylene	0.77	J	5.0	0.60	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.77	J	1.0	0.70	ug/L	1		8260B	Total/NA
tert-Butylbenzene	4.4		1.0	0.63	ug/L	1		8260B	Total/NA
Xylenes, Total	2.5	J	10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.12	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.041	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-chloroethoxy)methane	0.73	J	9.8	0.68	ug/L	1		8270D	Total/NA
1,4-Dioxane	1.5	J	9.8	0.98	ug/L	1		8270D	Total/NA

Client Sample ID: MW6D-ROX-101016 — Lab Sample ID: 400-128513-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0	0.38	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.032	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.058	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW6D-ROX-101016-DUP — Lab Sample ID: 400-128513-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		1.0	0.38	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.038	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.064	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101016-A-8011
Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/17/16 13:11	10/19/16 04:14	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/17/16 13:11	10/19/16 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/17/16 13:11*	*10/19/16 04:14*	*1*

Client Sample ID: TB-ROX-101016-A-8260
Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 12:17	1
Acrolein	ND		20	10	ug/L			10/21/16 12:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 12:17	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 12:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 12:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 12:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 12:17	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 12:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 12:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 12:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 12:17	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 12:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 12:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 12:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 12:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 12:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 12:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 12:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 12:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 12:17	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 12:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 12:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 12:17	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 12:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 12:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 12:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 12:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 12:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 12:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 12:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 12:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 12:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 12:17	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 12:17	1

Client Sample ID: TB-ROX-101016-A-8260
Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 12:17	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 12:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 12:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 12:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 12:17	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 12:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 12:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 12:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 12:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 12:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 12:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 12:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 12:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 12:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 12:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 12:17	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/21/16 12:17*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*10/21/16 12:17*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/21/16 12:17*	*1*

Client Sample ID: MW5-ROX-101016
Date Collected: 10/10/16 09:05
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 12:43	1
Acrolein	ND		20	10	ug/L			10/21/16 12:43	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 12:43	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 12:43	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 12:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 12:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 12:43	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 12:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 12:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 12:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 12:43	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 12:43	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 12:43	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 12:43	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 12:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 12:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 12:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 12:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 12:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 12:43	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 12:43	1
Isopropylbenzene	**1.1**		1.0	0.53	ug/L			10/21/16 12:43	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 12:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 12:43	1
Methyl tert-butyl ether	**7.9**		1.0	0.74	ug/L			10/21/16 12:43	1
m-Xylene & p-Xylene	**1.7**	J	5.0	1.6	ug/L			10/21/16 12:43	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 12:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 12:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 12:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 12:43	1
o-Xylene	**0.77**	J	5.0	0.60	ug/L			10/21/16 12:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 12:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 12:43	1

Client Sample ID: MW5-ROX-101016
Date Collected: 10/10/16 09:05
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**0.77**	**J**	1.0	0.70	ug/L			10/21/16 12:43	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 12:43	1
tert-Butylbenzene	**4.4**		1.0	0.63	ug/L			10/21/16 12:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 12:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 12:43	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 12:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 12:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 12:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 12:43	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 12:43	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 12:43	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 12:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 12:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 12:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 12:43	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 12:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 12:43	1
Xylenes, Total	**2.5**	**J**	10	1.6	ug/L			10/21/16 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/21/16 12:43*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/21/16 12:43*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/16 12:43*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
Anthracene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Chrysene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Fluoranthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
Fluorene	ND		0.20	0.021	ug/L		10/13/16 09:38	10/18/16 17:22	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/13/16 09:38	10/18/16 17:22	1
Phenanthrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
Pyrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
1-Methylnaphthalene	**0.12**	**J**	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1
2-Methylnaphthalene	**0.041**	**J**	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*33 - 138*	*10/13/16 09:38*	*10/18/16 17:22*	*1*
2-Fluorobiphenyl	*77*		*15 - 122*	*10/13/16 09:38*	*10/18/16 17:22*	*1*

Client Sample ID: MW5-ROX-101016
Date Collected: 10/10/16 09:05
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*19 - 130*	*10/13/16 09:38*	*10/18/16 17:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/13/16 09:38	10/18/16 14:58	1
Benzenethiol	ND	*	9.8	1.7	ug/L		10/13/16 09:38	10/18/16 14:58	1
Benzoic acid	ND	*	29	7.2	ug/L		10/13/16 09:38	10/18/16 14:58	1
Benzyl alcohol	ND	*	9.8	2.0	ug/L		10/13/16 09:38	10/18/16 14:58	1
Bis(2-chloroethoxy)methane	**0.73**	**J**	9.8	0.68	ug/L		10/13/16 09:38	10/18/16 14:58	1
Bis(2-chloroethyl)ether	ND		9.8	0.73	ug/L		10/13/16 09:38	10/18/16 14:58	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/13/16 09:38	10/18/16 14:58	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/13/16 09:38	10/18/16 14:58	1
Butyl benzyl phthalate	ND		9.8	0.68	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Chloro-3-methylphenol	ND	*	9.8	3.7	ug/L		10/13/16 09:38	10/18/16 14:58	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/13/16 09:38	10/18/16 14:58	1
2-Chlorophenol	ND	*	9.8	2.2	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/13/16 09:38	10/18/16 14:58	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/13/16 09:38	10/18/16 14:58	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/13/16 09:38	10/18/16 14:58	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4-Dichlorophenol	ND	*	9.8	2.9	ug/L		10/13/16 09:38	10/18/16 14:58	1
Diethyl phthalate	ND	*	9.8	0.69	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4-Dimethylphenol	ND	*	9.8	3.4	ug/L		10/13/16 09:38	10/18/16 14:58	1
Dimethyl phthalate	ND	*	9.8	0.59	ug/L		10/13/16 09:38	10/18/16 14:58	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/13/16 09:38	10/18/16 14:58	1
4,6-Dinitro-ortho-cresol	ND	*	9.8	2.0	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4-Dinitrophenol	ND	*	29	3.3	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/13/16 09:38	10/18/16 14:58	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/13/16 09:38	10/18/16 14:58	1
1,4-Dioxane	**1.5**	**J**	9.8	0.98	ug/L		10/13/16 09:38	10/18/16 14:58	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/13/16 09:38	10/18/16 14:58	1
Hexachlorobenzene	ND		9.8	0.25	ug/L		10/13/16 09:38	10/18/16 14:58	1
Hexachlorocyclopentadiene	ND	*	20	2.5	ug/L		10/13/16 09:38	10/18/16 14:58	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/13/16 09:38	10/18/16 14:58	1
Indene	ND		9.8	0.98	ug/L		10/13/16 09:38	10/18/16 14:58	1
Isophorone	ND		9.8	0.56	ug/L		10/13/16 09:38	10/18/16 14:58	1
2-Methylphenol	ND	*	9.8	1.8	ug/L		10/13/16 09:38	10/18/16 14:58	1
3 & 4 Methylphenol	ND	*	20	1.0	ug/L		10/13/16 09:38	10/18/16 14:58	1
2-Nitroaniline	ND		9.8	2.2	ug/L		10/13/16 09:38	10/18/16 14:58	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Nitroaniline	ND	*	9.8	2.4	ug/L		10/13/16 09:38	10/18/16 14:58	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/13/16 09:38	10/18/16 14:58	1
2-Nitrophenol	ND	*	9.8	0.64	ug/L		10/13/16 09:38	10/18/16 14:58	1
4-Nitrophenol	ND	*	9.8	2.1	ug/L		10/13/16 09:38	10/18/16 14:58	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/13/16 09:38	10/18/16 14:58	1

Client Sample ID: MW5-ROX-101016
Date Collected: 10/10/16 09:05
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/13/16 09:38	10/18/16 14:58	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/13/16 09:38	10/18/16 14:58	1
Pentachlorophenol	ND	*	20	1.8	ug/L		10/13/16 09:38	10/18/16 14:58	1
Phenol	ND	*	9.8	2.5	ug/L		10/13/16 09:38	10/18/16 14:58	1
Pyridine	ND		9.8	3.1	ug/L		10/13/16 09:38	10/18/16 14:58	1
Quinoline	ND		9.8	5.9	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4,5-Trichlorophenol	ND	*	9.8	3.6	ug/L		10/13/16 09:38	10/18/16 14:58	1
2,4,6-Trichlorophenol	ND	*	9.8	3.4	ug/L		10/13/16 09:38	10/18/16 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/13/16 09:38*	*10/18/16 14:58*	*1*
2-Fluorophenol	*27*		*10 - 120*	*10/13/16 09:38*	*10/18/16 14:58*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/13/16 09:38*	*10/18/16 14:58*	*1*
Phenol-d5	*57*		*10 - 120*	*10/13/16 09:38*	*10/18/16 14:58*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/13/16 09:38*	*10/18/16 14:58*	*1*
2,4,6-Tribromophenol	*92*		*15 - 135*	*10/13/16 09:38*	*10/18/16 14:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzenethiol	ND	H	9.8	1.7	ug/L		10/24/16 16:10	10/28/16 15:44	1
Benzoic acid	ND	H	29	7.1	ug/L		10/24/16 16:10	10/28/16 15:44	1
Benzyl alcohol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 15:44	1
4-Chloro-3-methylphenol	ND	H	9.8	3.7	ug/L		10/24/16 16:10	10/28/16 15:44	1
2-Chlorophenol	ND	H	9.8	2.1	ug/L		10/24/16 16:10	10/28/16 15:44	1
2,4-Dichlorophenol	ND	H	9.8	2.9	ug/L		10/24/16 16:10	10/28/16 15:44	1
Diethyl phthalate	ND	H	9.8	0.68	ug/L		10/24/16 16:10	10/28/16 15:44	1
2,4-Dimethylphenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 15:44	1
Dimethyl phthalate	ND	H	9.8	0.59	ug/L		10/24/16 16:10	10/28/16 15:44	1
4,6-Dinitro-ortho-cresol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 15:44	1
2,4-Dinitrophenol	ND	H	29	3.3	ug/L		10/24/16 16:10	10/28/16 15:44	1
Hexachlorocyclopentadiene	ND	H	20	2.5	ug/L		10/24/16 16:10	10/28/16 15:44	1
2-Methylphenol	ND	H	9.8	1.8	ug/L		10/24/16 16:10	10/28/16 15:44	1
3 & 4 Methylphenol	ND	H	20	1.0	ug/L		10/24/16 16:10	10/28/16 15:44	1
4-Nitroaniline	ND	H	9.8	2.4	ug/L		10/24/16 16:10	10/28/16 15:44	1
2-Nitrophenol	ND	H	9.8	0.63	ug/L		10/24/16 16:10	10/28/16 15:44	1
4-Nitrophenol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 15:44	1
Pentachlorophenol	ND	H	20	1.8	ug/L		10/24/16 16:10	10/28/16 15:44	1
Phenol	ND	H	9.8	2.5	ug/L		10/24/16 16:10	10/28/16 15:44	1
2,4,5-Trichlorophenol	ND	H	9.8	3.6	ug/L		10/24/16 16:10	10/28/16 15:44	1
2,4,6-Trichlorophenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/24/16 16:10*	*10/28/16 15:44*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/24/16 16:10*	*10/28/16 15:44*	*1*
Nitrobenzene-d5	*62*		*27 - 120*	*10/24/16 16:10*	*10/28/16 15:44*	*1*
Phenol-d5	*52*		*10 - 120*	*10/24/16 16:10*	*10/28/16 15:44*	*1*
Terphenyl-d14	*55*		*53 - 125*	*10/24/16 16:10*	*10/28/16 15:44*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*10/24/16 16:10*	*10/28/16 15:44*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW5-ROX-101016
Date Collected: 10/10/16 09:05
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-3
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/17/16 13:11	10/19/16 04:44	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/17/16 13:11	10/19/16 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*122*		*51 - 149*	*10/17/16 13:11*	*10/19/16 04:44*	*1*

Client Sample ID: MW6D-ROX-101016
Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 13:09	1
Acrolein	ND		20	10	ug/L			10/21/16 13:09	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 13:09	1
Benzene	**4.1**		1.0	0.38	ug/L			10/21/16 13:09	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 13:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 13:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 13:09	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 13:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 13:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 13:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 13:09	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 13:09	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 13:09	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 13:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 13:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 13:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 13:09	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 13:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 13:09	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 13:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 13:09	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 13:09	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 13:09	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 13:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 13:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 13:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 13:09	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 13:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 13:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 13:09	1

Client Sample ID: MW6D-ROX-101016
Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 13:09	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 13:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 13:09	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 13:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 13:09	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:09	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 13:09	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 13:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 13:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 13:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 13:09	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 13:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 13:09	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 13:09*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*10/21/16 13:09*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/16 13:09*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
Anthracene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Chrysene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Fluoranthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
Fluorene	ND		0.20	0.021	ug/L		10/13/16 09:38	10/18/16 17:45	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 17:45	1
Phenanthrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
Pyrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
1-Methylnaphthalene	**0.032**	J	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1
2-Methylnaphthalene	**0.058**	J	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*33 - 138*	*10/13/16 09:38*	*10/18/16 17:45*	*1*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/13/16 09:38*	*10/18/16 17:45*	*1*

Client Sample ID: MW6D-ROX-101016

Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*19 - 130*	*10/13/16 09:38*	*10/18/16 17:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/13/16 09:38	10/18/16 15:28	1
Benzenethiol	ND	*	10	1.7	ug/L		10/13/16 09:38	10/18/16 15:28	1
Benzoic acid	ND	*	30	7.3	ug/L		10/13/16 09:38	10/18/16 15:28	1
Benzyl alcohol	ND	*	10	2.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 15:28	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/13/16 09:38	10/18/16 15:28	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/13/16 09:38	10/18/16 15:28	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/13/16 09:38	10/18/16 15:28	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Chloroaniline	ND		10	3.4	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Chloro-3-methylphenol	ND	*	10	3.8	ug/L		10/13/16 09:38	10/18/16 15:28	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 15:28	1
2-Chlorophenol	ND	*	10	2.2	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Dibenzofuran	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 15:28	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4-Dichlorophenol	ND	*	10	3.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Diethyl phthalate	ND	*	10	0.70	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4-Dimethylphenol	ND	*	10	3.5	ug/L		10/13/16 09:38	10/18/16 15:28	1
Dimethyl phthalate	ND	*	10	0.60	ug/L		10/13/16 09:38	10/18/16 15:28	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/13/16 09:38	10/18/16 15:28	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 15:28	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/13/16 09:38	10/18/16 15:28	1
1,4-Dioxane	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/13/16 09:38	10/18/16 15:28	1
Hexachlorocyclopentadiene	ND	*	20	2.6	ug/L		10/13/16 09:38	10/18/16 15:28	1
Hexachloroethane	ND		10	4.2	ug/L		10/13/16 09:38	10/18/16 15:28	1
Indene	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
Isophorone	ND		10	0.57	ug/L		10/13/16 09:38	10/18/16 15:28	1
2-Methylphenol	ND	*	10	1.8	ug/L		10/13/16 09:38	10/18/16 15:28	1
3 & 4 Methylphenol	ND	*	20	1.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
2-Nitroaniline	ND		10	2.2	ug/L		10/13/16 09:38	10/18/16 15:28	1
3-Nitroaniline	ND		10	1.8	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Nitroaniline	ND	*	10	2.5	ug/L		10/13/16 09:38	10/18/16 15:28	1
Nitrobenzene	ND		10	0.55	ug/L		10/13/16 09:38	10/18/16 15:28	1
2-Nitrophenol	ND	*	10	0.65	ug/L		10/13/16 09:38	10/18/16 15:28	1
4-Nitrophenol	ND	*	10	2.1	ug/L		10/13/16 09:38	10/18/16 15:28	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/13/16 09:38	10/18/16 15:28	1

Client Sample ID: MW6D-ROX-101016
Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/13/16 09:38	10/18/16 15:28	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/13/16 09:38	10/18/16 15:28	1
Pentachlorophenol	ND	*	20	1.8	ug/L		10/13/16 09:38	10/18/16 15:28	1
Phenol	ND	*	10	2.6	ug/L		10/13/16 09:38	10/18/16 15:28	1
Pyridine	ND		10	3.2	ug/L		10/13/16 09:38	10/18/16 15:28	1
Quinoline	ND		10	6.0	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4,5-Trichlorophenol	ND	*	10	3.7	ug/L		10/13/16 09:38	10/18/16 15:28	1
2,4,6-Trichlorophenol	ND	*	10	3.5	ug/L		10/13/16 09:38	10/18/16 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/13/16 09:38*	*10/18/16 15:28*	*1*
2-Fluorophenol	*27*		*10 - 120*	*10/13/16 09:38*	*10/18/16 15:28*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*10/13/16 09:38*	*10/18/16 15:28*	*1*
Phenol-d5	*48*		*10 - 120*	*10/13/16 09:38*	*10/18/16 15:28*	*1*
Terphenyl-d14	*83*		*53 - 125*	*10/13/16 09:38*	*10/18/16 15:28*	*1*
2,4,6-Tribromophenol	*74*		*15 - 135*	*10/13/16 09:38*	*10/18/16 15:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzenethiol	ND	H	9.8	1.7	ug/L		10/24/16 16:10	10/28/16 16:16	1
Benzoic acid	ND	H	29	7.1	ug/L		10/24/16 16:10	10/28/16 16:16	1
Benzyl alcohol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:16	1
4-Chloro-3-methylphenol	ND	H	9.8	3.7	ug/L		10/24/16 16:10	10/28/16 16:16	1
2-Chlorophenol	ND	H	9.8	2.1	ug/L		10/24/16 16:10	10/28/16 16:16	1
2,4-Dichlorophenol	ND	H	9.8	2.9	ug/L		10/24/16 16:10	10/28/16 16:16	1
Diethyl phthalate	ND	H	9.8	0.68	ug/L		10/24/16 16:10	10/28/16 16:16	1
2,4-Dimethylphenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 16:16	1
Dimethyl phthalate	ND	H	9.8	0.59	ug/L		10/24/16 16:10	10/28/16 16:16	1
4,6-Dinitro-ortho-cresol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:16	1
2,4-Dinitrophenol	ND	H	29	3.3	ug/L		10/24/16 16:10	10/28/16 16:16	1
Hexachlorocyclopentadiene	ND	H	20	2.5	ug/L		10/24/16 16:10	10/28/16 16:16	1
2-Methylphenol	ND	H	9.8	1.8	ug/L		10/24/16 16:10	10/28/16 16:16	1
3 & 4 Methylphenol	ND	H	20	1.0	ug/L		10/24/16 16:10	10/28/16 16:16	1
4-Nitroaniline	ND	H	9.8	2.4	ug/L		10/24/16 16:10	10/28/16 16:16	1
2-Nitrophenol	ND	H	9.8	0.63	ug/L		10/24/16 16:10	10/28/16 16:16	1
4-Nitrophenol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:16	1
Pentachlorophenol	ND	H	20	1.8	ug/L		10/24/16 16:10	10/28/16 16:16	1
Phenol	ND	H	9.8	2.5	ug/L		10/24/16 16:10	10/28/16 16:16	1
2,4,5-Trichlorophenol	ND	H	9.8	3.6	ug/L		10/24/16 16:10	10/28/16 16:16	1
2,4,6-Trichlorophenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/24/16 16:10*	*10/28/16 16:16*	*1*
2-Fluorophenol	*61*		*10 - 120*	*10/24/16 16:10*	*10/28/16 16:16*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*10/24/16 16:10*	*10/28/16 16:16*	*1*
Phenol-d5	*69*		*10 - 120*	*10/24/16 16:10*	*10/28/16 16:16*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/24/16 16:10*	*10/28/16 16:16*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*10/24/16 16:10*	*10/28/16 16:16*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW6D-ROX-101016
Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-4
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/17/16 13:11	10/19/16 05:14	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/17/16 13:11	10/19/16 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*51 - 149*	*10/17/16 13:11*	*10/19/16 05:14*	*1*

Client Sample ID: MW6D-ROX-101016-DUP
Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 13:35	1
Acrolein	ND		20	10	ug/L			10/21/16 13:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 13:35	1
Benzene	4.4		1.0	0.38	ug/L			10/21/16 13:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 13:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 13:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 13:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 13:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 13:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 13:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 13:35	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 13:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 13:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 13:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 13:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 13:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 13:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 13:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 13:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 13:35	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 13:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 13:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 13:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 13:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 13:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 13:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 13:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 13:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 13:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 13:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 13:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 13:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 13:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 13:35	1

Client Sample ID: MW6D-ROX-101016-DUP

Lab Sample ID: 400-128513-5

Date Collected: 10/10/16 11:30
Matrix: Water
Date Received: 10/11/16 09:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 13:35	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 13:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 13:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 13:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 13:35	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 13:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 13:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 13:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 13:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 13:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 13:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 13:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 13:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 13:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 13:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 13:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 13:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 13:35*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*10/21/16 13:35*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/16 13:35*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
Anthracene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Chrysene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Fluoranthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
Fluorene	ND		0.20	0.021	ug/L		10/13/16 09:38	10/18/16 18:08	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 18:08	1
Phenanthrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
Pyrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
1-Methylnaphthalene	**0.038**	J	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1
2-Methylnaphthalene	**0.064**	J	0.20	0.020	ug/L		10/13/16 09:38	10/18/16 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*96*		*33 - 138*	*10/13/16 09:38*	*10/18/16 18:08*	*1*
2-Fluorobiphenyl	*89*		*15 - 122*	*10/13/16 09:38*	*10/18/16 18:08*	*1*

Client Sample ID: MW6D-ROX-101016-DUP

Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*19 - 130*	*10/13/16 09:38*	*10/18/16 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/13/16 09:38	10/18/16 15:58	1
Benzenethiol	ND	*	10	1.7	ug/L		10/13/16 09:38	10/18/16 15:58	1
Benzoic acid	ND	*	30	7.3	ug/L		10/13/16 09:38	10/18/16 15:58	1
Benzyl alcohol	ND	*	10	2.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 15:58	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/13/16 09:38	10/18/16 15:58	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/13/16 09:38	10/18/16 15:58	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/13/16 09:38	10/18/16 15:58	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Chloroaniline	ND		10	3.4	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Chloro-3-methylphenol	ND	*	10	3.8	ug/L		10/13/16 09:38	10/18/16 15:58	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 15:58	1
2-Chlorophenol	ND	*	10	2.2	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Dibenzofuran	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 15:58	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4-Dichlorophenol	ND	*	10	3.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Diethyl phthalate	ND	*	10	0.70	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4-Dimethylphenol	ND	*	10	3.5	ug/L		10/13/16 09:38	10/18/16 15:58	1
Dimethyl phthalate	ND	*	10	0.60	ug/L		10/13/16 09:38	10/18/16 15:58	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/13/16 09:38	10/18/16 15:58	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 15:58	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/13/16 09:38	10/18/16 15:58	1
1,4-Dioxane	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/13/16 09:38	10/18/16 15:58	1
Hexachlorocyclopentadiene	ND	*	20	2.6	ug/L		10/13/16 09:38	10/18/16 15:58	1
Hexachloroethane	ND		10	4.2	ug/L		10/13/16 09:38	10/18/16 15:58	1
Indene	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
Isophorone	ND		10	0.57	ug/L		10/13/16 09:38	10/18/16 15:58	1
2-Methylphenol	ND	*	10	1.8	ug/L		10/13/16 09:38	10/18/16 15:58	1
3 & 4 Methylphenol	ND	*	20	1.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
2-Nitroaniline	ND		10	2.2	ug/L		10/13/16 09:38	10/18/16 15:58	1
3-Nitroaniline	ND		10	1.8	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Nitroaniline	ND	*	10	2.5	ug/L		10/13/16 09:38	10/18/16 15:58	1
Nitrobenzene	ND		10	0.55	ug/L		10/13/16 09:38	10/18/16 15:58	1
2-Nitrophenol	ND	*	10	0.65	ug/L		10/13/16 09:38	10/18/16 15:58	1
4-Nitrophenol	ND	*	10	2.1	ug/L		10/13/16 09:38	10/18/16 15:58	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/13/16 09:38	10/18/16 15:58	1

Client Sample ID: MW6D-ROX-101016-DUP

Date Collected: 10/10/16 11:30
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128513-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/13/16 09:38	10/18/16 15:58	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/13/16 09:38	10/18/16 15:58	1
Pentachlorophenol	ND	*	20	1.8	ug/L		10/13/16 09:38	10/18/16 15:58	1
Phenol	ND	*	10	2.6	ug/L		10/13/16 09:38	10/18/16 15:58	1
Pyridine	ND		10	3.2	ug/L		10/13/16 09:38	10/18/16 15:58	1
Quinoline	ND		10	6.0	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4,5-Trichlorophenol	ND	*	10	3.7	ug/L		10/13/16 09:38	10/18/16 15:58	1
2,4,6-Trichlorophenol	ND	*	10	3.5	ug/L		10/13/16 09:38	10/18/16 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/13/16 09:38*	*10/18/16 15:58*	*1*
2-Fluorophenol	*4*	*X*	*10 - 120*	*10/13/16 09:38*	*10/18/16 15:58*	*1*
Nitrobenzene-d5	*69*		*27 - 120*	*10/13/16 09:38*	*10/18/16 15:58*	*1*
Phenol-d5	*31*		*10 - 120*	*10/13/16 09:38*	*10/18/16 15:58*	*1*
Terphenyl-d14	*91*		*53 - 125*	*10/13/16 09:38*	*10/18/16 15:58*	*1*
2,4,6-Tribromophenol	*26*		*15 - 135*	*10/13/16 09:38*	*10/18/16 15:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzenethiol	ND	H	9.8	1.7	ug/L		10/24/16 16:10	10/28/16 16:49	1
Benzoic acid	ND	H	29	7.1	ug/L		10/24/16 16:10	10/28/16 16:49	1
Benzyl alcohol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:49	1
4-Chloro-3-methylphenol	ND	H	9.8	3.7	ug/L		10/24/16 16:10	10/28/16 16:49	1
2-Chlorophenol	ND	H	9.8	2.1	ug/L		10/24/16 16:10	10/28/16 16:49	1
2,4-Dichlorophenol	ND	H	9.8	2.9	ug/L		10/24/16 16:10	10/28/16 16:49	1
Diethyl phthalate	ND	H	9.8	0.68	ug/L		10/24/16 16:10	10/28/16 16:49	1
2,4-Dimethylphenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 16:49	1
Dimethyl phthalate	ND	H	9.8	0.59	ug/L		10/24/16 16:10	10/28/16 16:49	1
4,6-Dinitro-ortho-cresol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:49	1
2,4-Dinitrophenol	ND	H	29	3.3	ug/L		10/24/16 16:10	10/28/16 16:49	1
Hexachlorocyclopentadiene	ND	H	20	2.5	ug/L		10/24/16 16:10	10/28/16 16:49	1
2-Methylphenol	ND	H	9.8	1.8	ug/L		10/24/16 16:10	10/28/16 16:49	1
3 & 4 Methylphenol	ND	H	20	1.0	ug/L		10/24/16 16:10	10/28/16 16:49	1
4-Nitroaniline	ND	H	9.8	2.4	ug/L		10/24/16 16:10	10/28/16 16:49	1
2-Nitrophenol	ND	H	9.8	0.63	ug/L		10/24/16 16:10	10/28/16 16:49	1
4-Nitrophenol	ND	H	9.8	2.0	ug/L		10/24/16 16:10	10/28/16 16:49	1
Pentachlorophenol	ND	H	20	1.8	ug/L		10/24/16 16:10	10/28/16 16:49	1
Phenol	ND	H	9.8	2.5	ug/L		10/24/16 16:10	10/28/16 16:49	1
2,4,5-Trichlorophenol	ND	H	9.8	3.6	ug/L		10/24/16 16:10	10/28/16 16:49	1
2,4,6-Trichlorophenol	ND	H	9.8	3.4	ug/L		10/24/16 16:10	10/28/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*10/24/16 16:10*	*10/28/16 16:49*	*1*
2-Fluorophenol	*72*		*10 - 120*	*10/24/16 16:10*	*10/28/16 16:49*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/24/16 16:10*	*10/28/16 16:49*	*1*
Phenol-d5	*81*		*10 - 120*	*10/24/16 16:10*	*10/28/16 16:49*	*1*
Terphenyl-d14	*78*		*53 - 125*	*10/24/16 16:10*	*10/28/16 16:49*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*10/24/16 16:10*	*10/28/16 16:49*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW6D-ROX-101016-DUP
Lab Sample ID: 400-128513-5
Date Collected: 10/10/16 11:30
Matrix: Water
Date Received: 10/11/16 09:34

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/17/16 13:11	10/19/16 06:13	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/17/16 13:11	10/19/16 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*134*		*51 - 149*	*10/17/16 13:11*	*10/19/16 06:13*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128513-2	TB-ROX-101016-A-8260	97	108	98
400-128513-3	MW5-ROX-101016	97	101	95
400-128513-4	MW6D-ROX-101016	98	109	96
400-128513-5	MW6D-ROX-101016-DUP	98	109	97
400-128516-D-3 MS	Matrix Spike	103	100	98
400-128516-D-3 MSD	Matrix Spike Duplicate	97	100	97
LCS 400-327688/1002	Lab Control Sample	99	99	99
MB 400-327688/24	Method Blank	96	106	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128513-3	MW5-ROX-101016	77	27	77	57	88	92
400-128513-3 - RERA	MW5-ROX-101016	70	42	62	52	55	91
400-128513-4	MW6D-ROX-101016	75	27	71	48	83	74
400-128513-4 - RERA	MW6D-ROX-101016	82	61	72	69	71	91
400-128513-5	MW6D-ROX-101016-DUP	82	4 X	69	31	91	26
400-128513-5 - RERA	MW6D-ROX-101016-DUP	94	72	80	81	78	107
LCS 400-326605/16-A	Lab Control Sample	81	58	77	73	89	83
LCS 400-326605/2-A	Lab Control Sample	80	0 X	69	0 X	88	2 X
LCS 400-328076/2-A	Lab Control Sample	91	71	76	80	89	108
LCSD 400-326605/17-A	Lab Control Sample Dup	15 X	14	14 X	15	16 X	14 X
LCSD 400-326605/3-A	Lab Control Sample Dup	66	38	61	55	71	72
LCSD 400-328076/3-A	Lab Control Sample Dup	91	75	76	82	90	110
MB 400-326605/1-A	Method Blank	83	45	74	69	93	71
MB 400-328076/1-A	Method Blank	92	71	80	81	86	79

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128513-3	MW5-ROX-101016	90	77	84

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128513-4	MW6D-ROX-101016	87	79	74
400-128513-5	MW6D-ROX-101016-DUP	96	89	76
LCS 400-326605/2-A	Lab Control Sample	85	76	68
LCSD 400-326605/3-A	Lab Control Sample Dup	77	71	63
MB 400-326605/1-A	Method Blank	93	80	86

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(51-149)
400-128513-1	TB-ROX-101016-A-8011	136
400-128513-3	MW5-ROX-101016	122
400-128513-4	MW6D-ROX-101016	71
400-128513-5	MW6D-ROX-101016-DUP	134
LCS 400-327020/2-A	Lab Control Sample	135
LCSD 400-327020/3-A	Lab Control Sample Dup	124
MB 400-327020/1-A	Method Blank	126

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101016-A-8011

Lab Sample ID: 400-128513-1

Date Collected: 10/10/16 00:00
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.1 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 04:14	KH1	TAL PEN

Client Sample ID: TB-ROX-101016-A-8260

Lab Sample ID: 400-128513-2

Date Collected: 10/10/16 00:00
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 12:17	HLW	TAL PEN

Client Sample ID: MW5-ROX-101016

Lab Sample ID: 400-128513-3

Date Collected: 10/10/16 09:05
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 12:43	HLW	TAL PEN
Total/NA	Prep	3520C	RERA		1025 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			328716	10/28/16 15:44	MAM	TAL PEN
Total/NA	Prep	3520C			1020 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 14:58	MAM	TAL PEN
Total/NA	Prep	3520C			1020 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327193	10/18/16 17:22	S1S	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 04:44	KH1	TAL PEN

Client Sample ID: MW6D-ROX-101016

Lab Sample ID: 400-128513-4

Date Collected: 10/10/16 11:30
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 13:09	HLW	TAL PEN
Total/NA	Prep	3520C	RERA		1025 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			328716	10/28/16 16:16	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 15:28	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327193	10/18/16 17:45	S1S	TAL PEN
Total/NA	Prep	8011			34.8 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 05:14	KH1	TAL PEN

Client Sample ID: MW6D-ROX-101016-DUP

Lab Sample ID: 400-128513-5

Date Collected: 10/10/16 11:30
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 13:35	HLW	TAL PEN
Total/NA	Prep	3520C	RERA		1025 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			328716	10/28/16 16:49	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 15:58	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327193	10/18/16 18:08	S1S	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/19/16 06:13	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-326605/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 12:27	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327193	10/18/16 13:31	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327020/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/18/16 19:20	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327688/24

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 10:19	HLW	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328076/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328716	10/28/16 12:24	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-326605/16-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 15:08	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 13:57	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-326605/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 12:57	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327193	10/18/16 13:54	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327020/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/18/16 19:50	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327688/1002

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 09:09	HLW	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328076/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328716	10/28/16 14:38	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-326605/17-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 15:08	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 14:27	MAM	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-326605/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327141	10/18/16 13:27	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	326605	10/13/16 09:38	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327193	10/18/16 14:17	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327020/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327020	10/17/16 13:11	KH1	TAL PEN
Total/NA	Analysis	8011		1			327319	10/18/16 20:19	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-328076/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328076	10/24/16 16:10	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328716	10/28/16 15:11	MAM	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128516-D-3 MS

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 14:26	HLW	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128516-D-3 MSD

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 14:52	HLW	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-2	TB-ROX-101016-A-8260	Total/NA	Water	8260B	
400-128513-3	MW5-ROX-101016	Total/NA	Water	8260B	
400-128513-4	MW6D-ROX-101016	Total/NA	Water	8260B	
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	8260B	
MB 400-327688/24	Method Blank	Total/NA	Water	8260B	
LCS 400-327688/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128516-D-3 MS	Matrix Spike	Total/NA	Water	8260B	
400-128516-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 326605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-3	MW5-ROX-101016	Total/NA	Water	3520C	
400-128513-4	MW6D-ROX-101016	Total/NA	Water	3520C	
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	3520C	
MB 400-326605/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-326605/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-326605/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-326605/17-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-326605/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 327141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-3	MW5-ROX-101016	Total/NA	Water	8270D	326605
400-128513-4	MW6D-ROX-101016	Total/NA	Water	8270D	326605
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	8270D	326605
MB 400-326605/1-A	Method Blank	Total/NA	Water	8270D	326605
LCS 400-326605/16-A	Lab Control Sample	Total/NA	Water	8270D	326605
LCS 400-326605/2-A	Lab Control Sample	Total/NA	Water	8270D	326605
LCSD 400-326605/17-A	Lab Control Sample Dup	Total/NA	Water	8270D	326605
LCSD 400-326605/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	326605

Analysis Batch: 327193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-3	MW5-ROX-101016	Total/NA	Water	8270D LL	326605
400-128513-4	MW6D-ROX-101016	Total/NA	Water	8270D LL	326605
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	8270D LL	326605
MB 400-326605/1-A	Method Blank	Total/NA	Water	8270D LL	326605
LCS 400-326605/2-A	Lab Control Sample	Total/NA	Water	8270D LL	326605
LCSD 400-326605/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	326605

Prep Batch: 328076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-3 - RERA	MW5-ROX-101016	Total/NA	Water	3520C	
400-128513-4 - RERA	MW6D-ROX-101016	Total/NA	Water	3520C	
400-128513-5 - RERA	MW6D-ROX-101016-DUP	Total/NA	Water	3520C	
MB 400-328076/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328076/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328076/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Analysis Batch: 328716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-3 - RERA	MW5-ROX-101016	Total/NA	Water	8270D	328076
400-128513-4 - RERA	MW6D-ROX-101016	Total/NA	Water	8270D	328076
400-128513-5 - RERA	MW6D-ROX-101016-DUP	Total/NA	Water	8270D	328076
MB 400-328076/1-A	Method Blank	Total/NA	Water	8270D	328076
LCS 400-328076/2-A	Lab Control Sample	Total/NA	Water	8270D	328076
LCSD 400-328076/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328076

GC Semi VOA

Prep Batch: 327020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-1	TB-ROX-101016-A-8011	Total/NA	Water	8011	
400-128513-3	MW5-ROX-101016	Total/NA	Water	8011	
400-128513-4	MW6D-ROX-101016	Total/NA	Water	8011	
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	8011	
MB 400-327020/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327020/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327020/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 327319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128513-1	TB-ROX-101016-A-8011	Total/NA	Water	8011	327020
400-128513-3	MW5-ROX-101016	Total/NA	Water	8011	327020
400-128513-4	MW6D-ROX-101016	Total/NA	Water	8011	327020
400-128513-5	MW6D-ROX-101016-DUP	Total/NA	Water	8011	327020
MB 400-327020/1-A	Method Blank	Total/NA	Water	8011	327020
LCS 400-327020/2-A	Lab Control Sample	Total/NA	Water	8011	327020
LCSD 400-327020/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327020

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327688/24
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 10:19	1
Acrolein	ND		20	10	ug/L			10/21/16 10:19	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 10:19	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 10:19	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 10:19	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 10:19	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 10:19	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 10:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 10:19	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 10:19	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 10:19	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 10:19	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 10:19	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 10:19	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 10:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 10:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 10:19	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 10:19	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 10:19	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 10:19	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 10:19	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 10:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 10:19	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 10:19	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 10:19	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 10:19	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 10:19	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 10:19	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 10:19	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 10:19	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 10:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327688/24
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 10:19	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 10:19	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 10:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 10:19	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 10:19	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 10:19	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 10:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 10:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 10:19	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 10:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/21/16 10:19*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*10/21/16 10:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/16 10:19*	*1*

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	189		ug/L		95	43 - 160
Acrolein	500	475		ug/L		95	38 - 160
Acrylonitrile	500	469		ug/L		94	64 - 142
Benzene	50.0	45.9		ug/L		92	70 - 130
Bromobenzene	50.0	48.5		ug/L		97	70 - 132
Bromochloromethane	50.0	45.6		ug/L		91	70 - 130
Bromodichloromethane	50.0	46.5		ug/L		93	67 - 133
Bromoform	50.0	53.7		ug/L		107	57 - 140
Bromomethane	50.0	42.5		ug/L		85	10 - 160
2-Butanone (MEK)	200	189		ug/L		95	61 - 145
Carbon disulfide	50.0	45.9		ug/L		92	61 - 137
Carbon tetrachloride	50.0	48.4		ug/L		97	61 - 137
Chlorobenzene	50.0	47.6		ug/L		95	70 - 130
Dibromochloromethane	50.0	50.2		ug/L		100	67 - 135
Chloroethane	50.0	44.1		ug/L		88	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	43.4		ug/L		87	10 - 160
Chloroform	50.0	45.7		ug/L		91	69 - 130
1-Chlorohexane	50.0	44.5		ug/L		89	69 - 130
Chloromethane	50.0	45.2		ug/L		90	58 - 137
cis-1,2-Dichloroethene	50.0	44.6		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	69 - 132
1,2-Dichlorobenzene	50.0	42.7		ug/L		85	67 - 130
1,3-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 130
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	49.1		ug/L		98	41 - 146
1,1-Dichloroethane	50.0	45.5		ug/L		91	70 - 130
1,2-Dichloroethane	50.0	44.2		ug/L		88	69 - 130
1,1-Dichloroethene	50.0	44.2		ug/L		88	63 - 134
1,2-Dichloropropane	50.0	46.7		ug/L		93	70 - 130
1,3-Dichloropropane	50.0	49.3		ug/L		99	70 - 130
2,2-Dichloropropane	50.0	47.8		ug/L		96	52 - 135
1,1-Dichloropropene	50.0	45.9		ug/L		92	70 - 130
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
Ethyl methacrylate	50.0	47.6		ug/L		95	68 - 130
Hexachlorobutadiene	50.0	47.7		ug/L		95	53 - 140
2-Hexanone	200	190		ug/L		95	65 - 137
Isopropylbenzene	50.0	43.7		ug/L		87	70 - 130
Methylene bromide	50.0	44.5		ug/L		89	70 - 130
Methylene Chloride	50.0	44.9		ug/L		90	66 - 135
4-Methyl-2-pentanone (MIBK)	200	182		ug/L		91	69 - 138
Methyl tert-butyl ether	50.0	49.6		ug/L		99	66 - 130
m-Xylene & p-Xylene	50.0	45.9		ug/L		92	70 - 130
Naphthalene	50.0	47.0		ug/L		94	47 - 149
n-Butylbenzene	50.0	43.0		ug/L		86	67 - 130
N-Propylbenzene	50.0	45.9		ug/L		92	70 - 130
o-Chlorotoluene	50.0	42.3		ug/L		85	70 - 130
o-Xylene	50.0	45.8		ug/L		92	70 - 130
p-Chlorotoluene	50.0	46.8		ug/L		94	70 - 130
p-Isopropyltoluene	50.0	42.3		ug/L		85	65 - 130
sec-Butylbenzene	50.0	42.9		ug/L		86	66 - 130
Styrene	50.0	46.1		ug/L		92	70 - 130
tert-Butylbenzene	50.0	43.3		ug/L		87	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/L		96	67 - 131
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/L		92	70 - 131
Tetrachloroethene	50.0	46.6		ug/L		93	65 - 130
Toluene	50.0	47.4		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	63 - 130
1,2,3-Trichlorobenzene	50.0	45.2		ug/L		90	60 - 138
1,2,4-Trichlorobenzene	50.0	45.4		ug/L		91	60 - 140
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
Trichloroethene	50.0	47.2		ug/L		94	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	43.1		ug/L		86	65 - 138
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	50.0	44.0		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	50.0	43.2		ug/L		86	69 - 130
Vinyl acetate	100	99.8		ug/L		100	26 - 160
Vinyl chloride	50.0	43.3		ug/L		87	59 - 136
Xylenes, Total	100	91.7		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-128516-D-3 MS
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	158		ug/L		79	43 - 160
Acrolein	ND		500	509		ug/L		102	38 - 160
Acrylonitrile	ND		500	507		ug/L		101	62 - 149
Benzene	ND		50.0	50.8		ug/L		102	56 - 142
Bromobenzene	ND		50.0	50.7		ug/L		101	59 - 136
Bromochloromethane	ND		50.0	50.3		ug/L		101	64 - 140
Bromodichloromethane	ND		50.0	51.2		ug/L		102	59 - 143
Bromoform	ND		50.0	50.0		ug/L		100	50 - 140
Bromomethane	ND		50.0	48.9		ug/L		98	10 - 160
2-Butanone (MEK)	ND		200	191		ug/L		95	55 - 150
Carbon disulfide	ND		50.0	50.0		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	51.4		ug/L		103	55 - 145
Chlorobenzene	ND		50.0	51.4		ug/L		103	64 - 130
Dibromochloromethane	ND		50.0	53.7		ug/L		107	56 - 143
Chloroethane	ND		50.0	51.2		ug/L		102	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	50.3		ug/L		101	60 - 141
1-Chlorohexane	ND		50.0	48.0		ug/L		96	56 - 136
Chloromethane	ND		50.0	46.3		ug/L		93	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.3		ug/L		99	59 - 143
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	57 - 140
1,2-Dichlorobenzene	ND		50.0	45.9		ug/L		92	52 - 137
1,3-Dichlorobenzene	ND		50.0	47.9		ug/L		96	54 - 135
1,4-Dichlorobenzene	ND		50.0	50.5		ug/L		101	53 - 135
Dichlorodifluoromethane	ND		50.0	52.7		ug/L		105	16 - 160
1,1-Dichloroethane	ND		50.0	49.7		ug/L		99	61 - 144
1,2-Dichloroethane	ND		50.0	48.3		ug/L		97	60 - 141
1,1-Dichloroethene	ND		50.0	48.4		ug/L		97	54 - 147
1,2-Dichloropropane	ND		50.0	50.4		ug/L		101	66 - 137
1,3-Dichloropropane	ND		50.0	52.1		ug/L		104	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-D-3 MS
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	48.6		ug/L		97	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	48.4		ug/L		97	58 - 131
Ethyl methacrylate	ND		50.0	49.9		ug/L		100	64 - 130
Hexachlorobutadiene	ND		50.0	47.4		ug/L		95	31 - 149
2-Hexanone	ND		200	188		ug/L		94	65 - 140
Isopropylbenzene	ND		50.0	45.8		ug/L		92	56 - 133
Methylene bromide	ND		50.0	50.7		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	49.3		ug/L		99	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	202		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	50.7		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.6		ug/L		97	57 - 130
Naphthalene	ND		50.0	48.7		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	45.9		ug/L		92	41 - 142
N-Propylbenzene	ND		50.0	49.6		ug/L		99	51 - 138
o-Chlorotoluene	ND		50.0	45.6		ug/L		91	53 - 134
o-Xylene	ND		50.0	46.9		ug/L		94	61 - 130
p-Chlorotoluene	ND		50.0	49.5		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	45.3		ug/L		91	48 - 139
sec-Butylbenzene	ND		50.0	44.8		ug/L		90	50 - 138
Styrene	ND		50.0	48.9		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	43.7		ug/L		87	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.7		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	52.3		ug/L		105	66 - 135
Tetrachloroethene	ND		50.0	45.8		ug/L		92	52 - 133
Toluene	ND		50.0	50.2		ug/L		100	65 - 130
trans-1,2-Dichloroethene	ND		50.0	51.1		ug/L		102	61 - 143
trans-1,3-Dichloropropene	ND		50.0	51.4		ug/L		103	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	45.7		ug/L		91	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	46.1		ug/L		92	39 - 148
1,1,1-Trichloroethane	ND		50.0	49.4		ug/L		99	57 - 142
1,1,2-Trichloroethane	ND		50.0	50.6		ug/L		101	66 - 131
Trichloroethene	ND		50.0	51.7		ug/L		103	64 - 136
Trichlorofluoromethane	ND		50.0	46.7		ug/L		93	54 - 156
1,2,3-Trichloropropane	ND		50.0	50.0		ug/L		100	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.7		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	45.0		ug/L		90	52 - 135
Vinyl acetate	ND		100	105		ug/L		105	26 - 160
Vinyl chloride	ND		50.0	47.4		ug/L		95	46 - 152
Xylenes, Total	ND		100	95.5		ug/L		96	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-D-3 MSD
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	153		ug/L		77	43 - 160	3	30
Acrolein	ND		500	516		ug/L		103	38 - 160	1	31
Acrylonitrile	ND		500	503		ug/L		101	62 - 149	1	30
Benzene	ND		50.0	52.6		ug/L		105	56 - 142	4	30
Bromobenzene	ND		50.0	51.7		ug/L		103	59 - 136	2	30
Bromochloromethane	ND		50.0	53.2		ug/L		106	64 - 140	6	30
Bromodichloromethane	ND		50.0	52.3		ug/L		105	59 - 143	2	30
Bromoform	ND		50.0	49.4		ug/L		99	50 - 140	1	30
Bromomethane	ND		50.0	52.5		ug/L		105	10 - 160	7	50
2-Butanone (MEK)	ND		200	195		ug/L		98	55 - 150	3	30
Carbon disulfide	ND		50.0	51.9		ug/L		104	48 - 152	4	30
Carbon tetrachloride	ND		50.0	52.8		ug/L		106	55 - 145	3	30
Chlorobenzene	ND		50.0	52.0		ug/L		104	64 - 130	1	30
Dibromochloromethane	ND		50.0	52.7		ug/L		105	56 - 143	2	30
Chloroethane	ND		50.0	51.1		ug/L		102	50 - 151	0	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	51.0		ug/L		102	60 - 141	1	30
1-Chlorohexane	ND		50.0	48.4		ug/L		97	56 - 136	1	30
Chloromethane	ND		50.0	48.2		ug/L		96	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	53.1		ug/L		106	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	46.3		ug/L		93	52 - 137	1	30
1,3-Dichlorobenzene	ND		50.0	48.3		ug/L		97	54 - 135	1	30
1,4-Dichlorobenzene	ND		50.0	49.3		ug/L		99	53 - 135	2	30
Dichlorodifluoromethane	ND		50.0	52.4		ug/L		105	16 - 160	1	31
1,1-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	50.5		ug/L		101	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	50.5		ug/L		101	54 - 147	4	30
1,2-Dichloropropane	ND		50.0	51.3		ug/L		103	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	53.1		ug/L		106	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	49.7		ug/L		99	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	52.6		ug/L		105	65 - 136	5	30
Ethylbenzene	ND		50.0	49.7		ug/L		99	58 - 131	3	30
Ethyl methacrylate	ND		50.0	52.6		ug/L		105	64 - 130	5	30
Hexachlorobutadiene	ND		50.0	50.1		ug/L		100	31 - 149	6	36
2-Hexanone	ND		200	189		ug/L		94	65 - 140	0	30
Isopropylbenzene	ND		50.0	47.6		ug/L		95	56 - 133	4	30
Methylene bromide	ND		50.0	51.1		ug/L		102	63 - 138	1	30
Methylene Chloride	ND		50.0	49.9		ug/L		100	60 - 146	1	32
4-Methyl-2-pentanone (MIBK)	ND		200	207		ug/L		103	63 - 146	2	30
Methyl tert-butyl ether	ND		50.0	51.9		ug/L		104	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	49.5		ug/L		99	57 - 130	2	30
Naphthalene	ND		50.0	50.5		ug/L		101	25 - 160	4	30
n-Butylbenzene	ND		50.0	46.1		ug/L		92	41 - 142	1	31
N-Propylbenzene	ND		50.0	48.8		ug/L		98	51 - 138	2	30
o-Chlorotoluene	ND		50.0	45.3		ug/L		91	53 - 134	1	30
o-Xylene	ND		50.0	49.0		ug/L		98	61 - 130	4	30
p-Chlorotoluene	ND		50.0	49.8		ug/L		100	54 - 133	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-D-3 MSD
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	45.9		ug/L		92	48 - 139	2	30
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138	3	30
Styrene	ND		50.0	49.6		ug/L		99	58 - 131	1	30
tert-Butylbenzene	ND		50.0	46.4		ug/L		93	54 - 146	6	30
1,1,1,2-Tetrachloroethane	ND		50.0	52.3		ug/L		105	59 - 137	7	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.4		ug/L		99	66 - 135	6	30
Tetrachloroethene	ND		50.0	47.1		ug/L		94	52 - 133	3	30
Toluene	ND		50.0	50.5		ug/L		101	65 - 130	1	30
trans-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	52.5		ug/L		105	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	49.2		ug/L		98	43 - 145	7	30
1,2,4-Trichlorobenzene	ND		50.0	46.0		ug/L		92	39 - 148	0	30
1,1,1-Trichloroethane	ND		50.0	50.9		ug/L		102	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	55.9		ug/L		112	66 - 131	10	30
Trichloroethene	ND		50.0	52.2		ug/L		104	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	48.3		ug/L		97	54 - 156	3	30
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139	0	30
1,3,5-Trimethylbenzene	ND		50.0	45.8		ug/L		92	52 - 135	2	30
Vinyl acetate	ND		100	106		ug/L		106	26 - 160	1	33
Vinyl chloride	ND		50.0	48.9		ug/L		98	46 - 152	3	30
Xylenes, Total	ND		100	98.5		ug/L		98	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-326605/1-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/13/16 09:38	10/18/16 12:27	1
Benzenethiol	ND		10	1.7	ug/L		10/13/16 09:38	10/18/16 12:27	1
Benzoic acid	ND		30	7.3	ug/L		10/13/16 09:38	10/18/16 12:27	1
Benzyl alcohol	ND		10	2.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 12:27	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/13/16 09:38	10/18/16 12:27	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/13/16 09:38	10/18/16 12:27	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/13/16 09:38	10/18/16 12:27	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Chloroaniline	ND		10	3.4	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/13/16 09:38	10/18/16 12:27	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 12:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-326605/1-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Dibenzofuran	ND		10	0.52	ug/L		10/13/16 09:38	10/18/16 12:27	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Diethyl phthalate	ND		10	0.70	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/13/16 09:38	10/18/16 12:27	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/13/16 09:38	10/18/16 12:27	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/13/16 09:38	10/18/16 12:27	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/13/16 09:38	10/18/16 12:27	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/13/16 09:38	10/18/16 12:27	1
1,4-Dioxane	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/13/16 09:38	10/18/16 12:27	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/13/16 09:38	10/18/16 12:27	1
Hexachloroethane	ND		10	4.2	ug/L		10/13/16 09:38	10/18/16 12:27	1
Indene	ND		10	1.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
Isophorone	ND		10	0.57	ug/L		10/13/16 09:38	10/18/16 12:27	1
2-Methylphenol	ND		10	1.8	ug/L		10/13/16 09:38	10/18/16 12:27	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
2-Nitroaniline	ND		10	2.2	ug/L		10/13/16 09:38	10/18/16 12:27	1
3-Nitroaniline	ND		10	1.8	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Nitroaniline	ND		10	2.5	ug/L		10/13/16 09:38	10/18/16 12:27	1
Nitrobenzene	ND		10	0.55	ug/L		10/13/16 09:38	10/18/16 12:27	1
2-Nitrophenol	ND		10	0.65	ug/L		10/13/16 09:38	10/18/16 12:27	1
4-Nitrophenol	ND		10	2.1	ug/L		10/13/16 09:38	10/18/16 12:27	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/13/16 09:38	10/18/16 12:27	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/13/16 09:38	10/18/16 12:27	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/13/16 09:38	10/18/16 12:27	1
Pentachlorophenol	ND		20	1.8	ug/L		10/13/16 09:38	10/18/16 12:27	1
Phenol	ND		10	2.6	ug/L		10/13/16 09:38	10/18/16 12:27	1
Pyridine	ND		10	3.2	ug/L		10/13/16 09:38	10/18/16 12:27	1
Quinoline	ND		10	6.0	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/13/16 09:38	10/18/16 12:27	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/13/16 09:38	10/18/16 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 120*	*10/13/16 09:38*	*10/18/16 12:27*	*1*
2-Fluorophenol	*45*		*10 - 120*	*10/13/16 09:38*	*10/18/16 12:27*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/13/16 09:38*	*10/18/16 12:27*	*1*
Phenol-d5	*69*		*10 - 120*	*10/13/16 09:38*	*10/18/16 12:27*	*1*
Terphenyl-d14	*93*		*53 - 125*	*10/13/16 09:38*	*10/18/16 12:27*	*1*
2,4,6-Tribromophenol	*71*		*15 - 135*	*10/13/16 09:38*	*10/18/16 12:27*	*1*

Lab Sample ID: LCS 400-326605/16-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		5	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*58*		*10 - 120*
Nitrobenzene-d5	*77*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*83*		*15 - 135*

Lab Sample ID: LCS 400-326605/2-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	18.8		ug/L		63	10 - 145
Benzoic acid	126	ND	*	ug/L		0	10 - 120
Benzyl alcohol	30.0	10.7	*	ug/L		36	51 - 121
Bis(2-chloroethoxy)methane	30.0	21.7		ug/L		72	54 - 123
Bis(2-chloroethyl)ether	30.0	20.7		ug/L		69	47 - 120
bis (2-chloroisopropyl) ether	30.0	18.8		ug/L		63	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.7		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	30.0	24.4		ug/L		81	62 - 132
Butyl benzyl phthalate	30.0	24.5		ug/L		82	51 - 150
4-Chloroaniline	30.0	20.1		ug/L		67	32 - 128
4-Chloro-3-methylphenol	30.0	ND	*	ug/L		3	47 - 135
2-Chloronaphthalene	30.0	24.0		ug/L		80	24 - 150
2-Chlorophenol	30.0	ND	*	ug/L		0	45 - 120
4-Chlorophenyl phenyl ether	30.0	25.8		ug/L		86	61 - 133
Dibenz[a,h]acridine	30.0	28.8		ug/L		96	60 - 131
Dibenzofuran	30.0	24.9		ug/L		83	62 - 124
3,3'-Dichlorobenzidine	40.0	33.1		ug/L		83	16 - 167
2,4-Dichlorophenol	30.0	ND	*	ug/L		0	52 - 125
Diethyl phthalate	30.0	6.02	J *	ug/L		20	55 - 140
2,4-Dimethylphenol	30.0	4.70	J *	ug/L		16	52 - 121
Dimethyl phthalate	30.0	2.32	J *	ug/L		8	50 - 133
Di-n-butyl phthalate	30.0	26.7		ug/L		89	59 - 144
4,6-Dinitro-ortho-cresol	60.0	ND	*	ug/L		0	46 - 136
2,4-Dinitrophenol	101	ND	*	ug/L		0	22 - 146
2,4-Dinitrotoluene	30.0	25.6		ug/L		85	54 - 141
2,6-Dinitrotoluene	30.0	25.3		ug/L		84	61 - 130
Di-n-octyl phthalate	30.0	26.3		ug/L		88	55 - 140
1,4-Dioxane	30.0	13.5		ug/L		45	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.8		ug/L		73	55 - 139
Hexachlorobenzene	30.0	26.2		ug/L		87	60 - 138
Hexachlorocyclopentadiene	30.0	9.87	J	ug/L		33	1 - 139
Hexachloroethane	30.0	19.7		ug/L		66	46 - 121
Indene	30.0	23.0		ug/L		77	17 - 141
Isophorone	30.0	20.9		ug/L		70	57 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-326605/2-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	30.0	3.94	J *	ug/L		13	38 - 121
3 & 4 Methylphenol	30.0	ND	*	ug/L		0	43 - 126
2-Nitroaniline	30.0	25.7		ug/L		86	52 - 135
3-Nitroaniline	30.0	23.3		ug/L		78	51 - 128
4-Nitroaniline	30.0	34.0		ug/L		113	38 - 141
Nitrobenzene	30.0	20.4		ug/L		68	52 - 128
2-Nitrophenol	30.0	ND	*	ug/L		0	47 - 129
4-Nitrophenol	60.0	ND	*	ug/L		0	34 - 137
N-Nitrosodimethylamine	30.0	23.6		ug/L		79	21 - 134
N-Nitrosodi-n-propylamine	30.0	20.2		ug/L		67	41 - 143
N-Nitrosodiphenylamine	29.8	23.0		ug/L		77	10 - 185
Pentachlorophenol	60.0	3.34	J *	ug/L		6	38 - 138
Phenol	30.0	ND	*	ug/L		0	37 - 120
Pyridine	30.0	14.9		ug/L		50	10 - 127
Quinoline	30.0	26.5		ug/L		88	10 - 164
2,4,5-Trichlorophenol	30.0	ND	*	ug/L		0	53 - 130
2,4,6-Trichlorophenol	30.0	ND	*	ug/L		0	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*34 - 120*
2-Fluorophenol	*0*	*X*	*10 - 120*
Nitrobenzene-d5	*69*		*27 - 120*
Phenol-d5	*0*	*X*	*10 - 120*
Terphenyl-d14	*88*		*53 - 125*
2,4,6-Tribromophenol	*2*	*X*	*15 - 135*

Lab Sample ID: LCSD 400-326605/17-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	22.5	*	ug/L		75	20 - 150	176	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*15*	*X*	*34 - 120*
2-Fluorophenol	*14*		*10 - 120*
Nitrobenzene-d5	*14*	*X*	*27 - 120*
Phenol-d5	*15*		*10 - 120*
Terphenyl-d14	*16*	*X*	*53 - 125*
2,4,6-Tribromophenol	*14*	*X*	*15 - 135*

Lab Sample ID: LCSD 400-326605/3-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	18.5		ug/L		62	10 - 145	2	30
Benzoic acid	126	89.0	*	ug/L		71	10 - 120	200	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-326605/3-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzyl alcohol	30.0	10.5	*	ug/L		35	51 - 121	2	30
Bis(2-chloroethoxy)methane	30.0	22.9		ug/L		76	54 - 123	5	30
Bis(2-chloroethyl)ether	30.0	22.1		ug/L		74	47 - 120	7	30
bis (2-chloroisopropyl) ether	30.0	19.8		ug/L		66	20 - 142	5	30
Bis(2-ethylhexyl) phthalate	30.0	27.8		ug/L		93	62 - 140	0	30
4-Bromophenyl phenyl ether	30.0	23.7		ug/L		79	62 - 132	3	30
Butyl benzyl phthalate	30.0	25.5		ug/L		85	51 - 150	4	30
4-Chloroaniline	30.0	17.5		ug/L		58	32 - 128	14	30
4-Chloro-3-methylphenol	30.0	24.3	*	ug/L		81	47 - 135	187	30
2-Chloronaphthalene	30.0	23.7		ug/L		79	24 - 150	1	30
2-Chlorophenol	30.0	17.9	*	ug/L		60	45 - 120	200	30
4-Chlorophenyl phenyl ether	30.0	24.7		ug/L		82	61 - 133	4	30
Dibenz[a,h]acridine	30.0	32.4		ug/L		108	60 - 131	12	30
Dibenzofuran	30.0	24.1		ug/L		80	62 - 124	3	30
3,3'-Dichlorobenzidine	40.0	28.9		ug/L		72	16 - 167	14	30
2,4-Dichlorophenol	30.0	22.9	*	ug/L		76	52 - 125	200	30
Diethyl phthalate	30.0	25.1	*	ug/L		84	55 - 140	123	30
2,4-Dimethylphenol	30.0	23.2	*	ug/L		77	52 - 121	133	30
Dimethyl phthalate	30.0	24.7	*	ug/L		82	50 - 133	166	30
Di-n-butyl phthalate	30.0	27.5		ug/L		92	59 - 144	3	30
4,6-Dinitro-ortho-cresol	60.0	52.1	*	ug/L		87	46 - 136	200	30
2,4-Dinitrophenol	101	91.6	*	ug/L		91	22 - 146	200	30
2,4-Dinitrotoluene	30.0	25.7		ug/L		86	54 - 141	0	30
2,6-Dinitrotoluene	30.0	24.2		ug/L		81	61 - 130	4	30
Di-n-octyl phthalate	30.0	27.9		ug/L		93	55 - 140	6	30
1,4-Dioxane	30.0	16.1		ug/L		54	10 - 130	17	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.4		ug/L		71	55 - 139	2	30
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138	3	30
Hexachlorocyclopentadiene	30.0	14.0	J *	ug/L		47	1 - 139	35	30
Hexachloroethane	30.0	21.2		ug/L		71	46 - 121	8	30
Indene	30.0	25.1		ug/L		84	17 - 141	9	30
Isophorone	30.0	22.2		ug/L		74	57 - 122	6	30
2-Methylphenol	30.0	25.5	*	ug/L		85	38 - 121	146	30
3 & 4 Methylphenol	30.0	20.9	*	ug/L		70	43 - 126	200	30
2-Nitroaniline	30.0	24.9		ug/L		83	52 - 135	3	30
3-Nitroaniline	30.0	20.0		ug/L		67	51 - 128	15	30
4-Nitroaniline	30.0	21.4	*	ug/L		71	38 - 141	45	30
Nitrobenzene	30.0	21.3		ug/L		71	52 - 128	5	30
2-Nitrophenol	30.0	23.9	*	ug/L		80	47 - 129	200	30
4-Nitrophenol	60.0	43.0	*	ug/L		72	34 - 137	200	30
N-Nitrosodimethylamine	30.0	23.5		ug/L		78	21 - 134	0	30
N-Nitrosodi-n-propylamine	30.0	21.0		ug/L		70	41 - 143	4	30
N-Nitrosodiphenylamine	29.8	22.5		ug/L		76	10 - 185	2	30
Pentachlorophenol	60.0	40.3	*	ug/L		67	38 - 138	169	30
Phenol	30.0	20.0	*	ug/L		67	37 - 120	200	30
Pyridine	30.0	16.9		ug/L		56	10 - 127	13	30
Quinoline	30.0	28.9		ug/L		96	10 - 164	8	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-326605/3-A
Matrix: Water
Analysis Batch: 327141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	30.0	24.9	*	ug/L		83	53 - 130	200	30
2,4,6-Trichlorophenol	30.0	22.2	*	ug/L		74	52 - 131	200	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*34 - 120*
2-Fluorophenol	*38*		*10 - 120*
Nitrobenzene-d5	*61*		*27 - 120*
Phenol-d5	*55*		*10 - 120*
Terphenyl-d14	*71*		*53 - 125*
2,4,6-Tribromophenol	*72*		*15 - 135*

Lab Sample ID: MB 400-328076/1-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/24/16 16:10	10/28/16 12:24	1
Benzenethiol	ND		10	1.7	ug/L		10/24/16 16:10	10/28/16 12:24	1
Benzoic acid	ND		30	7.3	ug/L		10/24/16 16:10	10/28/16 12:24	1
Benzyl alcohol	ND		10	2.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/24/16 16:10	10/28/16 12:24	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/24/16 16:10	10/28/16 12:24	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/24/16 16:10	10/28/16 12:24	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/24/16 16:10	10/28/16 12:24	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Chloroaniline	ND		10	3.4	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/24/16 16:10	10/28/16 12:24	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/24/16 16:10	10/28/16 12:24	1
2-Chlorophenol	ND		10	2.2	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Dibenzofuran	ND		10	0.52	ug/L		10/24/16 16:10	10/28/16 12:24	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Diethyl phthalate	ND		10	0.70	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/24/16 16:10	10/28/16 12:24	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/24/16 16:10	10/28/16 12:24	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/24/16 16:10	10/28/16 12:24	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 16:10	10/28/16 12:24	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/24/16 16:10	10/28/16 12:24	1
1,4-Dioxane	2.23	J	10	1.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/24/16 16:10	10/28/16 12:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328076/1-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/24/16 16:10	10/28/16 12:24	1
Hexachloroethane	ND		10	4.2	ug/L		10/24/16 16:10	10/28/16 12:24	1
Indene	ND		10	1.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
Isophorone	ND		10	0.57	ug/L		10/24/16 16:10	10/28/16 12:24	1
2-Methylphenol	ND		10	1.8	ug/L		10/24/16 16:10	10/28/16 12:24	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
2-Nitroaniline	ND		10	2.2	ug/L		10/24/16 16:10	10/28/16 12:24	1
3-Nitroaniline	ND		10	1.8	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Nitroaniline	ND		10	2.5	ug/L		10/24/16 16:10	10/28/16 12:24	1
Nitrobenzene	ND		10	0.55	ug/L		10/24/16 16:10	10/28/16 12:24	1
2-Nitrophenol	ND		10	0.65	ug/L		10/24/16 16:10	10/28/16 12:24	1
4-Nitrophenol	ND		10	2.1	ug/L		10/24/16 16:10	10/28/16 12:24	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/24/16 16:10	10/28/16 12:24	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/24/16 16:10	10/28/16 12:24	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/24/16 16:10	10/28/16 12:24	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 16:10	10/28/16 12:24	1
Phenol	ND		10	2.6	ug/L		10/24/16 16:10	10/28/16 12:24	1
Pyridine	ND		10	3.2	ug/L		10/24/16 16:10	10/28/16 12:24	1
Quinoline	ND		10	6.0	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/24/16 16:10	10/28/16 12:24	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/24/16 16:10	10/28/16 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*34 - 120*	*10/24/16 16:10*	*10/28/16 12:24*	*1*
2-Fluorophenol	*71*		*10 - 120*	*10/24/16 16:10*	*10/28/16 12:24*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/24/16 16:10*	*10/28/16 12:24*	*1*
Phenol-d5	*81*		*10 - 120*	*10/24/16 16:10*	*10/28/16 12:24*	*1*
Terphenyl-d14	*86*		*53 - 125*	*10/24/16 16:10*	*10/28/16 12:24*	*1*
2,4,6-Tribromophenol	*79*		*15 - 135*	*10/24/16 16:10*	*10/28/16 12:24*	*1*

Lab Sample ID: LCS 400-328076/2-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	25.0		ug/L		83	10 - 145
Benzoic acid	126	18.7	J	ug/L		15	10 - 120
Benzyl alcohol	30.0	26.3		ug/L		88	51 - 121
Bis(2-chloroethoxy)methane	30.0	24.3		ug/L		81	54 - 123
Bis(2-chloroethyl)ether	30.0	26.3		ug/L		88	47 - 120
bis (2-chloroisopropyl) ether	30.0	26.5		ug/L		88	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	30.2		ug/L		101	62 - 140
4-Bromophenyl phenyl ether	30.0	26.2		ug/L		87	62 - 132
Butyl benzyl phthalate	30.0	28.7		ug/L		96	51 - 150
4-Chloroaniline	30.0	26.0		ug/L		87	32 - 128
4-Chloro-3-methylphenol	30.0	33.1		ug/L		110	47 - 135
2-Chloronaphthalene	30.0	30.4		ug/L		101	24 - 150
2-Chlorophenol	30.0	23.3		ug/L		78	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328076/2-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	30.0	30.4		ug/L		101	61 - 133
Dibenz[a,h]acridine	30.0	32.0		ug/L		107	60 - 131
Dibenzofuran	30.0	30.8		ug/L		103	62 - 124
3,3'-Dichlorobenzidine	40.0	41.8		ug/L		104	16 - 167
2,4-Dichlorophenol	30.0	25.7		ug/L		86	52 - 125
Diethyl phthalate	30.0	31.5		ug/L		105	55 - 140
2,4-Dimethylphenol	30.0	25.8		ug/L		86	52 - 121
Dimethyl phthalate	30.0	30.9		ug/L		103	50 - 133
Di-n-butyl phthalate	30.0	28.5		ug/L		95	59 - 144
4,6-Dinitro-ortho-cresol	60.0	53.0		ug/L		88	46 - 136
2,4-Dinitrophenol	101	96.7		ug/L		96	22 - 146
2,4-Dinitrotoluene	30.0	31.4		ug/L		105	54 - 141
2,6-Dinitrotoluene	30.0	30.5		ug/L		102	61 - 130
Di-n-octyl phthalate	30.0	28.5		ug/L		95	55 - 140
1,4-Dioxane	30.0	19.0		ug/L		63	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.7		ug/L		89	55 - 139
Hexachlorobenzene	30.0	27.1		ug/L		90	60 - 138
Hexachlorocyclopentadiene	30.0	19.2	J	ug/L		64	1 - 139
Hexachloroethane	30.0	22.2		ug/L		74	46 - 121
Indene	30.0	25.2		ug/L		84	17 - 141
Isophorone	30.0	25.3		ug/L		84	57 - 122
2-Methylphenol	30.0	25.5		ug/L		85	38 - 121
3 & 4 Methylphenol	30.0	24.1		ug/L		80	43 - 126
2-Nitroaniline	30.0	34.3		ug/L		114	52 - 135
3-Nitroaniline	30.0	32.3		ug/L		108	51 - 128
4-Nitroaniline	30.0	32.8		ug/L		109	38 - 141
Nitrobenzene	30.0	24.4		ug/L		81	52 - 128
2-Nitrophenol	30.0	23.4		ug/L		78	47 - 129
4-Nitrophenol	60.0	55.1		ug/L		92	34 - 137
N-Nitrosodimethylamine	30.0	27.7		ug/L		92	21 - 134
N-Nitrosodi-n-propylamine	30.0	24.4		ug/L		81	41 - 143
N-Nitrosodiphenylamine	29.8	25.5		ug/L		86	10 - 185
Pentachlorophenol	60.0	45.6		ug/L		76	38 - 138
Phenol	30.0	24.8		ug/L		83	37 - 120
Pyridine	30.0	19.2		ug/L		64	10 - 127
Quinoline	30.0	28.6		ug/L		95	10 - 164
2,4,5-Trichlorophenol	30.0	30.9		ug/L		103	53 - 130
2,4,6-Trichlorophenol	30.0	29.5		ug/L		98	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*80*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*108*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328076/3-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	25.4		ug/L		85	10 - 145	2	30
Benzoic acid	126	25.1	J	ug/L		20	10 - 120	29	30
Benzyl alcohol	30.0	26.6		ug/L		89	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	24.6		ug/L		82	54 - 123	1	30
Bis(2-chloroethyl)ether	30.0	26.1		ug/L		87	47 - 120	1	30
bis (2-chloroisopropyl) ether	30.0	26.9		ug/L		90	20 - 142	1	30
Bis(2-ethylhexyl) phthalate	30.0	30.9		ug/L		103	62 - 140	2	30
4-Bromophenyl phenyl ether	30.0	26.2		ug/L		87	62 - 132	0	30
Butyl benzyl phthalate	30.0	29.5		ug/L		98	51 - 150	3	30
4-Chloroaniline	30.0	26.7		ug/L		89	32 - 128	2	30
4-Chloro-3-methylphenol	30.0	31.6		ug/L		105	47 - 135	5	30
2-Chloronaphthalene	30.0	29.5		ug/L		98	24 - 150	3	30
2-Chlorophenol	30.0	24.2		ug/L		81	45 - 120	4	30
4-Chlorophenyl phenyl ether	30.0	31.0		ug/L		103	61 - 133	2	30
Dibenz[a,h]acridine	30.0	29.9		ug/L		100	60 - 131	7	30
Dibenzofuran	30.0	31.1		ug/L		104	62 - 124	1	30
3,3'-Dichlorobenzidine	40.0	41.5		ug/L		104	16 - 167	1	30
2,4-Dichlorophenol	30.0	26.4		ug/L		88	52 - 125	3	30
Diethyl phthalate	30.0	32.4		ug/L		108	55 - 140	3	30
2,4-Dimethylphenol	30.0	26.1		ug/L		87	52 - 121	1	30
Dimethyl phthalate	30.0	31.3		ug/L		104	50 - 133	1	30
Di-n-butyl phthalate	30.0	28.5		ug/L		95	59 - 144	0	30
4,6-Dinitro-ortho-cresol	60.0	53.0		ug/L		88	46 - 136	0	30
2,4-Dinitrophenol	101	93.0		ug/L		92	22 - 146	4	30
2,4-Dinitrotoluene	30.0	32.0		ug/L		107	54 - 141	2	30
2,6-Dinitrotoluene	30.0	31.2		ug/L		104	61 - 130	2	30
Di-n-octyl phthalate	30.0	29.8		ug/L		99	55 - 140	4	30
1,4-Dioxane	30.0	19.3		ug/L		64	10 - 130	2	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.7		ug/L		89	55 - 139	0	30
Hexachlorobenzene	30.0	27.3		ug/L		91	60 - 138	1	30
Hexachlorocyclopentadiene	30.0	19.4	J	ug/L		65	1 - 139	1	30
Hexachloroethane	30.0	21.9		ug/L		73	46 - 121	1	30
Indene	30.0	24.4		ug/L		81	17 - 141	3	30
Isophorone	30.0	25.5		ug/L		85	57 - 122	1	30
2-Methylphenol	30.0	26.1		ug/L		87	38 - 121	2	30
3 & 4 Methylphenol	30.0	24.6		ug/L		82	43 - 126	2	30
2-Nitroaniline	30.0	36.2		ug/L		121	52 - 135	5	30
3-Nitroaniline	30.0	33.2		ug/L		111	51 - 128	3	30
4-Nitroaniline	30.0	33.7		ug/L		112	38 - 141	3	30
Nitrobenzene	30.0	24.7		ug/L		82	52 - 128	1	30
2-Nitrophenol	30.0	24.4		ug/L		81	47 - 129	4	30
4-Nitrophenol	60.0	54.6		ug/L		91	34 - 137	1	30
N-Nitrosodimethylamine	30.0	29.8		ug/L		99	21 - 134	7	30
N-Nitrosodi-n-propylamine	30.0	24.4		ug/L		81	41 - 143	0	30
N-Nitrosodiphenylamine	29.8	25.5		ug/L		86	10 - 185	0	30
Pentachlorophenol	60.0	46.2		ug/L		77	38 - 138	1	30
Phenol	30.0	25.3		ug/L		84	37 - 120	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328076/3-A
Matrix: Water
Analysis Batch: 328716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	30.0	19.6		ug/L		65	10 - 127	2	30
Quinoline	30.0	27.2		ug/L		91	10 - 164	5	30
2,4,5-Trichlorophenol	30.0	31.6		ug/L		105	53 - 130	3	30
2,4,6-Trichlorophenol	30.0	30.3		ug/L		101	52 - 131	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol	*75*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*82*		*10 - 120*
Terphenyl-d14	*90*		*53 - 125*
2,4,6-Tribromophenol	*110*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-326605/1-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 326605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
Anthracene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Chrysene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Fluoranthene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
Fluorene	ND		0.20	0.021	ug/L		10/13/16 09:38	10/18/16 13:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/13/16 09:38	10/18/16 13:31	1
Phenanthrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
Pyrene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/13/16 09:38	10/18/16 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*93*		*33 - 138*	*10/13/16 09:38*	*10/18/16 13:31*	*1*
2-Fluorobiphenyl	*80*		*15 - 122*	*10/13/16 09:38*	*10/18/16 13:31*	*1*
Nitrobenzene-d5	*86*		*19 - 130*	*10/13/16 09:38*	*10/18/16 13:31*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-326605/2-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	24.8		ug/L		83	41 - 120
Acenaphthylene	30.0	23.6		ug/L		79	44 - 120
Anthracene	30.0	25.8		ug/L		86	49 - 120
Benzo[a]anthracene	30.0	25.7		ug/L		86	61 - 135
Benzo[a]pyrene	30.0	25.4		ug/L		85	52 - 120
Benzo[b]fluoranthene	30.0	26.2		ug/L		87	53 - 134
Benzo[g,h,i]perylene	30.0	25.6		ug/L		85	47 - 133
Benzo[k]fluoranthene	30.0	26.0		ug/L		87	57 - 134
Chrysene	30.0	25.5		ug/L		85	55 - 122
Dibenz(a,h)anthracene	30.0	26.5		ug/L		88	48 - 146
Fluoranthene	30.0	28.0		ug/L		93	54 - 128
Fluorene	30.0	26.8		ug/L		89	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	25.8		ug/L		86	43 - 142
Phenanthrene	30.0	25.8		ug/L		86	48 - 120
Pyrene	30.0	24.3		ug/L		81	48 - 132
1-Methylnaphthalene	30.0	20.4		ug/L		68	41 - 120
2-Methylnaphthalene	30.0	20.3		ug/L		68	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*85*		*33 - 138*
2-Fluorobiphenyl	*76*		*15 - 122*
Nitrobenzene-d5	*68*		*19 - 130*

Lab Sample ID: LCSD 400-326605/3-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	26.7		ug/L		89	41 - 120	7	56
Acenaphthylene	30.0	25.3		ug/L		84	44 - 120	7	56
Anthracene	30.0	27.2		ug/L		91	49 - 120	6	51
Benzo[a]anthracene	30.0	27.0		ug/L		90	61 - 135	5	49
Benzo[a]pyrene	30.0	27.0		ug/L		90	52 - 120	6	50
Benzo[b]fluoranthene	30.0	29.1		ug/L		97	53 - 134	11	54
Benzo[g,h,i]perylene	30.0	27.5		ug/L		92	47 - 133	7	50
Benzo[k]fluoranthene	30.0	26.9		ug/L		90	57 - 134	4	52
Chrysene	30.0	27.4		ug/L		91	55 - 122	7	50
Dibenz(a,h)anthracene	30.0	29.0		ug/L		97	48 - 146	9	50
Fluoranthene	30.0	29.1		ug/L		97	54 - 128	4	52
Fluorene	30.0	28.3		ug/L		94	45 - 125	5	56
Indeno[1,2,3-cd]pyrene	30.0	28.2		ug/L		94	43 - 142	9	51
Phenanthrene	30.0	27.4		ug/L		91	48 - 120	6	56
Pyrene	30.0	25.7		ug/L		86	48 - 132	6	52
1-Methylnaphthalene	30.0	22.0		ug/L		73	41 - 120	7	55
2-Methylnaphthalene	30.0	21.9		ug/L		73	32 - 124	7	57

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-326605/3-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 326605

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*77*		*33 - 138*
2-Fluorobiphenyl	*71*		*15 - 122*
Nitrobenzene-d5	*63*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327020/1-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/17/16 13:11	10/18/16 19:20	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/17/16 13:11	10/18/16 19:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*126*		*51 - 149*	*10/17/16 13:11*	*10/18/16 19:20*	*1*

Lab Sample ID: LCS 400-327020/2-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0822		ug/L		82	60 - 140
1,2-Dibromoethane	0.100	0.0939		ug/L		94	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*135*		*51 - 149*

Lab Sample ID: LCSD 400-327020/3-A
Matrix: Water
Analysis Batch: 327319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0780		ug/L		78	60 - 140	5	30
1,2-Dibromoethane	0.100	0.0967		ug/L		97	60 - 140	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*124*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES_____

Print Bill To Contact Name: Bob Billman

PiaNet Site or Project ID: 25278

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT APPLIES

DATE: 10 Oct. 2016

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO:

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Josh Clark / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0482

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) __EDD_____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL

NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101016-A-8011	10/10/16	0000	WATER	2					2	X			
	TB-ROX-101016-A-8260		0000		2					2			X	
	MW5-ROX-101016		0905		4			2		6	X	X	X	X
	MW6D-ROX-101016		1130		4			2		6	X	X	X	X
	MW6D-ROX-101016-DUP		1130		4			2		6	X	X	X	X

400-128513 COC

Relinquished by: (Signature) Josh Clark 10 Oct. 2016

Received by: (Signature)

Date: 10 Oct. 2016 Time: 1400

Ref: S400-52240 Date: 25Jan16 Wgt: 10.00 LBS Dep: DV: 0.00

SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT TRCK: 6546 8382 3583

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Version 14Dec15

Custody seals: Test America: 665141/665142

10/11/16 934 TA 1.2°C IR6

Page 53 of 55

11/7/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128513-1
SDG Number: 60477387-1.03.0044/1.03.004

Login Number: 128513
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-128513-1
SDG: 60477387-1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128516-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/21/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101016-B-8011	TB-ROX-101016-B-8260
MW26-ROX-101016	MW6C-ROX-101016

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 the SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria for benzyl alcohol and benzenethiol. Several SVOC and VOC by 8011 surrogate recoveries were outside evaluation criteria in quality control samples. Method 8260 VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample MW26-ROX-101016. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in samples MW26-ROX-101016, MW6C-ROX-101016, and several quality control samples. Additionally, the continuing calibration verification for benzyl alcohol, 1,4-dioxane, n-nitrosodi-n-propylamine, 1,2-diphenylhydrazine (as azobenzene), and 3&4-methylphenol were outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections below.

The continuing calibration verification for isophorone, bis(2-chloroethyoxy)methane, 2,4-dimethylphenol, and 2-nitrophenol acetone and 4-methyl-2-pentanone (MIBK) exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 0.0°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

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
LCS/LCSD 400-327100/2-A/3-A	SVOCs	Benzyl alcohol	**43**/68	**45**	51-121/30
LCS/LCSD 400-327100/4-A/5-A	SVOCs	Benzenethiol	37/**1**	**188**	20-150/30

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
MW26-ROX-101016	SVOCs	Benzenethiol	**UJ**
MW26-ROX-101016	SVOCs	Benzyl alcohol	**UJ**
MW6C-ROX-101016	SVOCs	Benzenethiol	**UJ**
MW6C-ROX-101016	SVOCs	Benzyl alcohol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
LCS 400-327100/4-A	SVOCs	Terphenyl-d_{14}	**149**	53-125
LCSD 400-327100/5-A	SVOCs	Terphenyl-d_{14}	**49**	53-125
MB 400-327548/1-A	VOCs by 8011	4-Bromofluorobenzene	**177**	51-149
LCS 400-327548/2-A	VOCs by 8011	4-Bromofluorobenzene	**151**	51-149

Method blank and LCS/LCSD samples are quality control samples, and do not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, although not requested, sample MW26-ROX-101016 was spiked and analyzed for Method 8260 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW26-ROX-101016	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
MB 400-327100/1-A	SVOCs	Perylene-d_{12}	**252543**	283472-1133888
LCSD 400-327100/3-A	SVOCs	Perylene-d_{12}	**276402**	283472-1133888
LCS 400-327100/4-A	SVOCs	Perylene-d_{12}	**257012**	283472-1133888
MW26-ROX-101016	SVOCs	Perylene-d_{12}	**216640**	283472-1133888
MW6C-ROX-101016	SVOCs	Perylene-d_{12}	**258870**	283472-1133888

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below. Method blank MB 400-327100/1-A and LCS/LCSD 400-327100/3-A/4-A are quality control samples and do not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW26-ROX-101016	SVOCs	Dibenz[a,h]acridine	**UJ**
MW26-ROX-101016	SVOCs	Di-n-octyl phthalate	**J**
MW6C-ROX-101016	SVOCs	Dibenz[a,h]acridine	**UJ**
MW6C-ROX-101016	SVOCs	Di-n-octyl phthalate	**UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

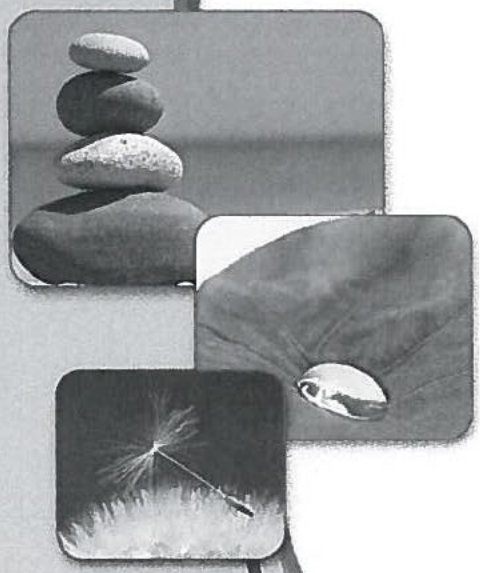
Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for benzyl alcohol, 1,4-dioxane, n-nitrosodi-n-propylamine, 1,2-diphenylhydrazine (as azobenzene), and 3&4-methylphenol was below acceptance criteria and are qualified as summarized in the following table. Benzyl alcohol was previously qualified in Section 5.0 of this review due to LCS recoveries outside evaluation criteria; no further qualification of benzyl alcohol was required.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW26-ROX-101016	SVOCs	1,4-Dioxane	-	UJ
MW26-ROX-101016	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW26-ROX-101016	SVOCs	1,2-Diphenylhydrazine (as Azobenzene)	-	UJ
MW26-ROX-101016	SVOCs	3&4-Methylphenol	-	UJ
MW6C-ROX-101016	SVOCs	1,4-Dioxane	-	UJ
MW6C-ROX-101016	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW6C-ROX-101016	SVOCs	1,2-Diphenylhydrazine (as Azobenzene)	-	UJ
MW6C-ROX-101016	SVOCs	3&4-Methylphenol	-	UJ



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128516-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY GW (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn D. Hooper

Authorized for release by:
10/27/2016 2:52:34 PM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 11/21/2016

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128516-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128516-1

Receipt
The samples were received on 10/11/2016 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101016-B-8260 (400-128516-2), MW26-ROX-101016 (400-128516-3) and MW6C-ROX-101016 (400-128516-4). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327688 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-327688 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 400-327100 recovered outside control limits for the following analytes: Benzyl alcohol.

The continuing calibration verification (CCV) analyzed in batch 400-327695 was outside the method criteria for the following analyte(s): Benzyl alcohol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 400-327337 was outside the method criteria for the following analyte(s): 1,4-Dioxane, N-Nitrosodi-n-propylamine, 1,2-Diphenylhydrazine (as Azobenzene), 3 & 4 Methylphenol and Benzyl alcohol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 400-327337 recovered above the upper control limit for Isophorone, Bis(2-chloroethoxy)methane, 2,4-Dimethylphenol and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW26-ROX-101016 (400-128516-3) and MW6C-ROX-101016 (400-128516-4).

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 400-327100/4-A). These results have been reported and qualified.

The following analyte recovered outside control limits for the LCS associated with preparation batch 400-327100 and analytical batch 400-327337: Benzyl alcohol. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-327100 and analytical batch 400-327977 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCSD 400-327100/5-A). These results have been reported and qualified.

Job ID: 400-128516-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: (LCS 400-327548/2-A) and (MB 400-327548/1-A). Associated sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-327100.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128516-1	TB-ROX-101016-B-8011	Water	10/10/16 00:00	10/11/16 09:34
400-128516-2	TB-ROX-101016-B-8260	Water	10/10/16 00:00	10/11/16 09:34
400-128516-3	MW26-ROX-101016	Water	10/10/16 10:10	10/11/16 09:34
400-128516-4	MW6C-ROX-101016	Water	10/10/16 13:55	10/11/16 09:34

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101016-B-8011 — Lab Sample ID: 400-128516-1

No Detections.

Client Sample ID: TB-ROX-101016-B-8260 — Lab Sample ID: 400-128516-2

No Detections.

Client Sample ID: MW26-ROX-101016 — Lab Sample ID: 400-128516-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.10	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.16	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	3.1	J	10	2.3	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate	0.51	J	10	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW6C-ROX-101016 — Lab Sample ID: 400-128516-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.049	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.077	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	2.6	J	9.5	2.2	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101016-B-8011
Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 04:18	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*10/20/16 10:29*	*10/21/16 04:18*	*1*

Client Sample ID: TB-ROX-101016-B-8260
Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 11:00	1
Acrolein	ND		20	10	ug/L			10/21/16 11:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 11:00	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 11:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 11:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 11:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 11:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 11:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 11:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 11:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 11:00	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 11:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 11:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 11:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 11:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 11:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 11:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 11:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 11:00	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 11:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 11:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 11:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 11:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 11:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 11:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 11:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 11:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 11:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 11:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 11:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 11:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 11:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 11:00	1

Client Sample ID: TB-ROX-101016-B-8260

Date Collected: 10/10/16 00:00
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 11:00	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 11:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 11:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 11:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 11:00	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 11:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 11:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 11:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 11:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 11:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 11:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 11:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 11:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 11:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 11:00	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 11:00*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*10/21/16 11:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/16 11:00*	*1*

Client Sample ID: MW26-ROX-101016

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 11:25	1
Acrolein	ND		20	10	ug/L			10/21/16 11:25	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 11:25	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 11:25	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 11:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 11:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 11:25	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 11:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 11:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 11:25	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/21/16 11:25	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 11:25	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 11:25	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 11:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 11:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 11:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 11:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 11:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 11:25	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 11:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 11:25	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 11:25	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 11:25	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 11:25	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 11:25	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 11:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 11:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 11:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 11:25	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 11:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 11:25	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 11:25	1

Client Sample ID: MW26-ROX-101016

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 11:25	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 11:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 11:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 11:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 11:25	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 11:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 11:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 11:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:25	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 11:25	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 11:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 11:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 11:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 11:25	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 11:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 11:25	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 11:25*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/21/16 11:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/16 11:25*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
Anthracene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Chrysene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Fluoranthene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
Fluorene	ND		0.20	0.021	ug/L		10/17/16 20:43	10/19/16 12:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/19/16 12:34	1
Phenanthrene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
Pyrene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
1-Methylnaphthalene	**0.10**	**J**	0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1
2-Methylnaphthalene	**0.16**	**J**	0.20	0.020	ug/L		10/17/16 20:43	10/19/16 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*69*		*33 - 138*	*10/17/16 20:43*	*10/19/16 12:34*	*1*
2-Fluorobiphenyl	*84*		*15 - 122*	*10/17/16 20:43*	*10/19/16 12:34*	*1*

Client Sample ID: MW26-ROX-101016

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*19 - 130*	*10/17/16 20:43*	*10/19/16 12:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/17/16 20:43	10/19/16 19:44	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/17/16 20:43	10/19/16 19:44	1
Benzoic acid	ND		30	7.3	ug/L		10/17/16 20:43	10/19/16 19:44	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/17/16 20:43	10/19/16 19:44	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/17/16 20:43	10/19/16 19:44	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/17/16 20:43	10/19/16 19:44	1
Bis(2-ethylhexyl) phthalate	**3.1**	**J**	10	2.3	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/17/16 20:43	10/19/16 19:44	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Chloroaniline	ND		10	3.4	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/17/16 20:43	10/19/16 19:44	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/17/16 20:43	10/19/16 19:44	1
2-Chlorophenol	ND		10	2.2	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
Dibenz[a,h]acridine	ND	UJ	10	3.0	ug/L		10/17/16 20:43	10/21/16 13:26	1
Dibenzofuran	ND		10	0.52	ug/L		10/17/16 20:43	10/19/16 19:44	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
Diethyl phthalate	ND		10	0.70	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 19:44	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/17/16 20:43	10/19/16 19:44	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/17/16 20:43	10/19/16 19:44	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/17/16 20:43	10/19/16 19:44	1
Di-n-octyl phthalate	**0.51**	**J** J	10	0.44	ug/L		10/17/16 20:43	10/19/16 19:44	1
1,4-Dioxane	ND	UJ	10	1.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	UJ	10	1.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/17/16 20:43	10/19/16 19:44	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/17/16 20:43	10/19/16 19:44	1
Hexachloroethane	ND		10	4.2	ug/L		10/17/16 20:43	10/19/16 19:44	1
Indene	ND		10	1.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
Isophorone	ND		10	0.57	ug/L		10/17/16 20:43	10/19/16 19:44	1
2-Methylphenol	ND		10	1.8	ug/L		10/17/16 20:43	10/19/16 19:44	1
3 & 4 Methylphenol	ND	UJ	20	1.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
2-Nitroaniline	ND		10	2.2	ug/L		10/17/16 20:43	10/19/16 19:44	1
3-Nitroaniline	ND		10	1.8	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Nitroaniline	ND		10	2.5	ug/L		10/17/16 20:43	10/19/16 19:44	1
Nitrobenzene	ND		10	0.55	ug/L		10/17/16 20:43	10/19/16 19:44	1
2-Nitrophenol	ND		10	0.65	ug/L		10/17/16 20:43	10/19/16 19:44	1
4-Nitrophenol	ND		10	2.1	ug/L		10/17/16 20:43	10/19/16 19:44	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 19:44	1

Client Sample ID: MW26-ROX-101016

Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	10	3.3	ug/L		10/17/16 20:43	10/19/16 19:44	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/17/16 20:43	10/19/16 19:44	1
Pentachlorophenol	ND		20	1.8	ug/L		10/17/16 20:43	10/19/16 19:44	1
Phenol	ND		10	2.6	ug/L		10/17/16 20:43	10/19/16 19:44	1
Pyridine	ND		10	3.2	ug/L		10/17/16 20:43	10/19/16 19:44	1
Quinoline	ND		10	6.0	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/17/16 20:43	10/19/16 19:44	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 120*	*10/17/16 20:43*	*10/19/16 19:44*	*1*
2-Fluorophenol	*70*		*10 - 120*	*10/17/16 20:43*	*10/19/16 19:44*	*1*
Nitrobenzene-d5	*64*		*27 - 120*	*10/17/16 20:43*	*10/19/16 19:44*	*1*
Phenol-d5	*54*		*10 - 120*	*10/17/16 20:43*	*10/19/16 19:44*	*1*
Terphenyl-d14	*70*		*53 - 125*	*10/17/16 20:43*	*10/19/16 19:44*	*1*
2,4,6-Tribromophenol	*65*		*15 - 135*	*10/17/16 20:43*	*10/19/16 19:44*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/20/16 10:29	10/21/16 04:48	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/20/16 10:29	10/21/16 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*145*		*51 - 149*	*10/20/16 10:29*	*10/21/16 04:48*	*1*

Client Sample ID: MW6C-ROX-101016
Date Collected: 10/10/16 13:55
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 11:51	1
Acrolein	ND		20	10	ug/L			10/21/16 11:51	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 11:51	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 11:51	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 11:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 11:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 11:51	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 11:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 11:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 11:51	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 11:51	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 11:51	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 11:51	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 11:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 11:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 11:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 11:51	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 11:51	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 11:51	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 11:51	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 11:51	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 11:51	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 11:51	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 11:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 11:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 11:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 11:51	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 11:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 11:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 11:51	1

Client Sample ID: MW6C-ROX-101016

Date Collected: 10/10/16 13:55
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 11:51	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 11:51	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 11:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 11:51	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 11:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 11:51	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 11:51	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 11:51	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 11:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 11:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 11:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 11:51	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 11:51	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 11:51	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/16 11:51*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/21/16 11:51*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/21/16 11:51*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
Acenaphthylene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
Anthracene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Chrysene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Fluoranthene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
Fluorene	ND		0.19	0.020	ug/L		10/17/16 20:43	10/19/16 12:59	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		10/17/16 20:43	10/19/16 12:59	1
Phenanthrene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
Pyrene	ND		0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
1-Methylnaphthalene	**0.049**	**J**	0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1
2-Methylnaphthalene	**0.077**	**J**	0.19	0.019	ug/L		10/17/16 20:43	10/19/16 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*88*		*33 - 138*	*10/17/16 20:43*	*10/19/16 12:59*	*1*
2-Fluorobiphenyl	*92*		*15 - 122*	*10/17/16 20:43*	*10/19/16 12:59*	*1*

Client Sample ID: MW6C-ROX-101016

Date Collected: 10/10/16 13:55
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*19 - 130*	*10/17/16 20:43*	*10/19/16 12:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	3.6	ug/L		10/17/16 20:43	10/19/16 20:14	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		10/17/16 20:43	10/19/16 20:14	1
Benzoic acid	ND		29	7.0	ug/L		10/17/16 20:43	10/19/16 20:14	1
Benzyl alcohol	ND	UJ	9.5	1.9	ug/L		10/17/16 20:43	10/19/16 20:14	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		10/17/16 20:43	10/19/16 20:14	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		10/17/16 20:43	10/19/16 20:14	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		10/17/16 20:43	10/19/16 20:14	1
Bis(2-ethylhexyl) phthalate	**2.6**	**J**	9.5	2.2	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		10/17/16 20:43	10/19/16 20:14	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Chloroaniline	ND		9.5	3.2	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		10/17/16 20:43	10/19/16 20:14	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		10/17/16 20:43	10/19/16 20:14	1
2-Chlorophenol	ND		9.5	2.1	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		10/17/16 20:43	10/19/16 20:14	1
Dibenz[a,h]acridine	ND	UJ	9.5	2.9	ug/L		10/17/16 20:43	10/21/16 13:59	1
Dibenzofuran	ND		9.5	0.50	ug/L		10/17/16 20:43	10/19/16 20:14	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		10/17/16 20:43	10/19/16 20:14	1
Diethyl phthalate	ND		9.5	0.67	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		10/17/16 20:43	10/19/16 20:14	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		10/17/16 20:43	10/19/16 20:14	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		10/17/16 20:43	10/19/16 20:14	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		10/17/16 20:43	10/19/16 20:14	1
Di-n-octyl phthalate	ND	UJ	9.5	0.42	ug/L		10/17/16 20:43	10/19/16 20:14	1
1,4-Dioxane	ND	UJ	9.5	0.95	ug/L		10/17/16 20:43	10/19/16 20:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	UJ	9.5	0.95	ug/L		10/17/16 20:43	10/19/16 20:14	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		10/17/16 20:43	10/19/16 20:14	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		10/17/16 20:43	10/19/16 20:14	1
Hexachloroethane	ND		9.5	4.0	ug/L		10/17/16 20:43	10/19/16 20:14	1
Indene	ND		9.5	0.95	ug/L		10/17/16 20:43	10/19/16 20:14	1
Isophorone	ND		9.5	0.54	ug/L		10/17/16 20:43	10/19/16 20:14	1
2-Methylphenol	ND		9.5	1.7	ug/L		10/17/16 20:43	10/19/16 20:14	1
3 & 4 Methylphenol	ND	UJ	19	0.99	ug/L		10/17/16 20:43	10/19/16 20:14	1
2-Nitroaniline	ND		9.5	2.1	ug/L		10/17/16 20:43	10/19/16 20:14	1
3-Nitroaniline	ND		9.5	1.7	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Nitroaniline	ND		9.5	2.4	ug/L		10/17/16 20:43	10/19/16 20:14	1
Nitrobenzene	ND		9.5	0.52	ug/L		10/17/16 20:43	10/19/16 20:14	1
2-Nitrophenol	ND		9.5	0.62	ug/L		10/17/16 20:43	10/19/16 20:14	1
4-Nitrophenol	ND		9.5	2.0	ug/L		10/17/16 20:43	10/19/16 20:14	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		10/17/16 20:43	10/19/16 20:14	1

Client Sample ID: MW6C-ROX-101016

Date Collected: 10/10/16 13:55
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.5	3.1	ug/L		10/17/16 20:43	10/19/16 20:14	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		10/17/16 20:43	10/19/16 20:14	1
Pentachlorophenol	ND		19	1.7	ug/L		10/17/16 20:43	10/19/16 20:14	1
Phenol	ND		9.5	2.5	ug/L		10/17/16 20:43	10/19/16 20:14	1
Pyridine	ND		9.5	3.0	ug/L		10/17/16 20:43	10/19/16 20:14	1
Quinoline	ND		9.5	5.7	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		10/17/16 20:43	10/19/16 20:14	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		10/17/16 20:43	10/19/16 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/17/16 20:43*	*10/19/16 20:14*	*1*
2-Fluorophenol	*69*		*10 - 120*	*10/17/16 20:43*	*10/19/16 20:14*	*1*
Nitrobenzene-d5	*84*		*27 - 120*	*10/17/16 20:43*	*10/19/16 20:14*	*1*
Phenol-d5	*79*		*10 - 120*	*10/17/16 20:43*	*10/19/16 20:14*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/17/16 20:43*	*10/19/16 20:14*	*1*
2,4,6-Tribromophenol	*102*		*15 - 135*	*10/17/16 20:43*	*10/19/16 20:14*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/20/16 10:29	10/21/16 05:17	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/20/16 10:29	10/21/16 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*146*		*51 - 149*	*10/20/16 10:29*	*10/21/16 05:17*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128516-2	TB-ROX-101016-B-8260	98	110	96
400-128516-3	MW26-ROX-101016	98	107	97
400-128516-3 MS	MW26-ROX-101016	103	100	98
400-128516-3 MSD	MW26-ROX-101016	97	100	97
400-128516-4	MW6C-ROX-101016	98	111	94
LCS 400-327688/1002	Lab Control Sample	99	99	99
MB 400-327688/24	Method Blank	96	106	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128516-3	MW26-ROX-101016	59	70	64	54	70	65
400-128516-4	MW6C-ROX-101016	81	69	84	79	89	102
LCS 400-327100/2-A	Lab Control Sample	87	91	79	76	104	115
LCS 400-327100/4-A	Lab Control Sample	100	90	86	64	149 X	104
LCSD 400-327100/3-A	Lab Control Sample Dup	85	60	73	73	107	91
LCSD 400-327100/5-A	Lab Control Sample Dup	44	21	44	14	49 X	17
MB 400-327100/1-A	Method Blank	86	70	75	84	105	95

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128516-3	MW26-ROX-101016	69	84	76
400-128516-4	MW6C-ROX-101016	88	92	84
LCS 400-327100/2-A	Lab Control Sample	94	90	78
LCSD 400-327100/3-A	Lab Control Sample Dup	96	94	79
MB 400-327100/1-A	Method Blank	101	95	84

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-128516-1	TB-ROX-101016-B-8011	144
400-128516-3	MW26-ROX-101016	145
400-128516-4	MW6C-ROX-101016	146
LCS 400-327548/2-A	Lab Control Sample	151 X
MB 400-327548/1-A	Method Blank	177 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101016-B-8011

Lab Sample ID: 400-128516-1

Date Collected: 10/10/16 00:00
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 04:18	KH1	TAL PEN

Client Sample ID: TB-ROX-101016-B-8260

Lab Sample ID: 400-128516-2

Date Collected: 10/10/16 00:00
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 11:00	HLW	TAL PEN

Client Sample ID: MW26-ROX-101016

Lab Sample ID: 400-128516-3

Date Collected: 10/10/16 10:10
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 11:25	HLW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327695	10/21/16 13:26	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 19:44	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327250	10/19/16 12:34	S1S	TAL PEN
Total/NA	Prep	8011			36.3 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 04:48	KH1	TAL PEN

Client Sample ID: MW6C-ROX-101016

Lab Sample ID: 400-128516-4

Date Collected: 10/10/16 13:55
Matrix: Water
Date Received: 10/11/16 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 11:51	HLW	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327695	10/21/16 13:59	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 20:14	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327250	10/19/16 12:59	S1S	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 05:17	KH1	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327100/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327695	10/21/16 11:47	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 16:43	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327193	10/18/16 18:31	S1S	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327548/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:19	KH1	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327688/24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 10:19	HLW	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327100/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 17:43	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327193	10/18/16 19:17	S1S	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327100/4-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 18:43	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327548/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:48	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327688/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 09:09	HLW	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327695	10/21/16 12:53	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327337	10/19/16 18:13	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327193	10/18/16 19:40	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-327100/5-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327100	10/17/16 20:43	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 17:03	MAM	TAL PEN

Client Sample ID: MW26-ROX-101016
Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 14:26	HLW	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: MW26-ROX-101016
Date Collected: 10/10/16 10:10
Date Received: 10/11/16 09:34

Lab Sample ID: 400-128516-3 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327688	10/21/16 14:52	HLW	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-2	TB-ROX-101016-B-8260	Total/NA	Water	8260B	
400-128516-3	MW26-ROX-101016	Total/NA	Water	8260B	
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8260B	
MB 400-327688/24	Method Blank	Total/NA	Water	8260B	
LCS 400-327688/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128516-3 MS	MW26-ROX-101016	Total/NA	Water	8260B	
400-128516-3 MSD	MW26-ROX-101016	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 327100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-3	MW26-ROX-101016	Total/NA	Water	3520C	
400-128516-4	MW6C-ROX-101016	Total/NA	Water	3520C	
MB 400-327100/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-327100/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-327100/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-327100/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-327100/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 327193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-327100/1-A	Method Blank	Total/NA	Water	8270D LL	327100
LCS 400-327100/2-A	Lab Control Sample	Total/NA	Water	8270D LL	327100
LCSD 400-327100/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	327100

Analysis Batch: 327250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-3	MW26-ROX-101016	Total/NA	Water	8270D LL	327100
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8270D LL	327100

Analysis Batch: 327337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-3	MW26-ROX-101016	Total/NA	Water	8270D	327100
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8270D	327100
MB 400-327100/1-A	Method Blank	Total/NA	Water	8270D	327100
LCS 400-327100/2-A	Lab Control Sample	Total/NA	Water	8270D	327100
LCS 400-327100/4-A	Lab Control Sample	Total/NA	Water	8270D	327100
LCSD 400-327100/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327100

Analysis Batch: 327695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-3	MW26-ROX-101016	Total/NA	Water	8270D	327100
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8270D	327100
MB 400-327100/1-A	Method Blank	Total/NA	Water	8270D	327100
LCSD 400-327100/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327100

Analysis Batch: 327977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-327100/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	327100

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

GC Semi VOA

Prep Batch: 327548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-1	TB-ROX-101016-B-8011	Total/NA	Water	8011	
400-128516-3	MW26-ROX-101016	Total/NA	Water	8011	
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8011	
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 327718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128516-1	TB-ROX-101016-B-8011	Total/NA	Water	8011	327548
400-128516-3	MW26-ROX-101016	Total/NA	Water	8011	327548
400-128516-4	MW6C-ROX-101016	Total/NA	Water	8011	327548
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	327548
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	327548

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327688/24
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/16 10:19	1
Acrolein	ND		20	10	ug/L			10/21/16 10:19	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/16 10:19	1
Benzene	ND		1.0	0.38	ug/L			10/21/16 10:19	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/16 10:19	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Bromoform	ND		5.0	0.71	ug/L			10/21/16 10:19	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/16 10:19	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/16 10:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/16 10:19	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/16 10:19	1
Chloroform	ND		1.0	0.60	ug/L			10/21/16 10:19	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/16 10:19	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/16 10:19	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/16 10:19	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/16 10:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/16 10:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/16 10:19	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/16 10:19	1
2-Hexanone	ND		25	3.1	ug/L			10/21/16 10:19	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/16 10:19	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/16 10:19	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/16 10:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/16 10:19	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/16 10:19	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/16 10:19	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/16 10:19	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/16 10:19	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/16 10:19	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/16 10:19	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/16 10:19	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/16 10:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327688/24
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/16 10:19	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
Styrene	ND		1.0	1.0	ug/L			10/21/16 10:19	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/16 10:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/16 10:19	1
Toluene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/16 10:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/16 10:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/16 10:19	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/16 10:19	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/16 10:19	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/16 10:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/16 10:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/16 10:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/16 10:19	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/16 10:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/16 10:19	1
Xylenes, Total	ND		10	1.6	ug/L			10/21/16 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/21/16 10:19*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*10/21/16 10:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/16 10:19*	*1*

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	189		ug/L		95	43 - 160
Acrolein	500	475		ug/L		95	38 - 160
Acrylonitrile	500	469		ug/L		94	64 - 142
Benzene	50.0	45.9		ug/L		92	70 - 130
Bromobenzene	50.0	48.5		ug/L		97	70 - 132
Bromochloromethane	50.0	45.6		ug/L		91	70 - 130
Bromodichloromethane	50.0	46.5		ug/L		93	67 - 133
Bromoform	50.0	53.7		ug/L		107	57 - 140
Bromomethane	50.0	42.5		ug/L		85	10 - 160
2-Butanone (MEK)	200	189		ug/L		95	61 - 145
Carbon disulfide	50.0	45.9		ug/L		92	61 - 137
Carbon tetrachloride	50.0	48.4		ug/L		97	61 - 137
Chlorobenzene	50.0	47.6		ug/L		95	70 - 130
Dibromochloromethane	50.0	50.2		ug/L		100	67 - 135
Chloroethane	50.0	44.1		ug/L		88	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	43.4		ug/L		87	10 - 160
Chloroform	50.0	45.7		ug/L		91	69 - 130
1-Chlorohexane	50.0	44.5		ug/L		89	69 - 130
Chloromethane	50.0	45.2		ug/L		90	58 - 137
cis-1,2-Dichloroethene	50.0	44.6		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	69 - 132
1,2-Dichlorobenzene	50.0	42.7		ug/L		85	67 - 130
1,3-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 130
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	49.1		ug/L		98	41 - 146
1,1-Dichloroethane	50.0	45.5		ug/L		91	70 - 130
1,2-Dichloroethane	50.0	44.2		ug/L		88	69 - 130
1,1-Dichloroethene	50.0	44.2		ug/L		88	63 - 134
1,2-Dichloropropane	50.0	46.7		ug/L		93	70 - 130
1,3-Dichloropropane	50.0	49.3		ug/L		99	70 - 130
2,2-Dichloropropane	50.0	47.8		ug/L		96	52 - 135
1,1-Dichloropropene	50.0	45.9		ug/L		92	70 - 130
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
Ethyl methacrylate	50.0	47.6		ug/L		95	68 - 130
Hexachlorobutadiene	50.0	47.7		ug/L		95	53 - 140
2-Hexanone	200	190		ug/L		95	65 - 137
Isopropylbenzene	50.0	43.7		ug/L		87	70 - 130
Methylene bromide	50.0	44.5		ug/L		89	70 - 130
Methylene Chloride	50.0	44.9		ug/L		90	66 - 135
4-Methyl-2-pentanone (MIBK)	200	182		ug/L		91	69 - 138
Methyl tert-butyl ether	50.0	49.6		ug/L		99	66 - 130
m-Xylene & p-Xylene	50.0	45.9		ug/L		92	70 - 130
Naphthalene	50.0	47.0		ug/L		94	47 - 149
n-Butylbenzene	50.0	43.0		ug/L		86	67 - 130
N-Propylbenzene	50.0	45.9		ug/L		92	70 - 130
o-Chlorotoluene	50.0	42.3		ug/L		85	70 - 130
o-Xylene	50.0	45.8		ug/L		92	70 - 130
p-Chlorotoluene	50.0	46.8		ug/L		94	70 - 130
p-Isopropyltoluene	50.0	42.3		ug/L		85	65 - 130
sec-Butylbenzene	50.0	42.9		ug/L		86	66 - 130
Styrene	50.0	46.1		ug/L		92	70 - 130
tert-Butylbenzene	50.0	43.3		ug/L		87	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/L		96	67 - 131
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/L		92	70 - 131
Tetrachloroethene	50.0	46.6		ug/L		93	65 - 130
Toluene	50.0	47.4		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	63 - 130
1,2,3-Trichlorobenzene	50.0	45.2		ug/L		90	60 - 138
1,2,4-Trichlorobenzene	50.0	45.4		ug/L		91	60 - 140
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
Trichloroethene	50.0	47.2		ug/L		94	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327688/1002
Matrix: Water
Analysis Batch: 327688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	43.1		ug/L		86	65 - 138
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	50.0	44.0		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	50.0	43.2		ug/L		86	69 - 130
Vinyl acetate	100	99.8		ug/L		100	26 - 160
Vinyl chloride	50.0	43.3		ug/L		87	59 - 136
Xylenes, Total	100	91.7		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-128516-3 MS
Matrix: Water
Analysis Batch: 327688

Client Sample ID: MW26-ROX-101016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	158		ug/L		79	43 - 160
Acrolein	ND		500	509		ug/L		102	38 - 160
Acrylonitrile	ND		500	507		ug/L		101	62 - 149
Benzene	ND		50.0	50.8		ug/L		102	56 - 142
Bromobenzene	ND		50.0	50.7		ug/L		101	59 - 136
Bromochloromethane	ND		50.0	50.3		ug/L		101	64 - 140
Bromodichloromethane	ND		50.0	51.2		ug/L		102	59 - 143
Bromoform	ND		50.0	50.0		ug/L		100	50 - 140
Bromomethane	ND		50.0	48.9		ug/L		98	10 - 160
2-Butanone (MEK)	ND		200	191		ug/L		95	55 - 150
Carbon disulfide	ND		50.0	50.0		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	51.4		ug/L		103	55 - 145
Chlorobenzene	ND		50.0	51.4		ug/L		103	64 - 130
Dibromochloromethane	ND		50.0	53.7		ug/L		107	56 - 143
Chloroethane	ND		50.0	51.2		ug/L		102	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	50.3		ug/L		101	60 - 141
1-Chlorohexane	ND		50.0	48.0		ug/L		96	56 - 136
Chloromethane	ND		50.0	46.3		ug/L		93	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.3		ug/L		99	59 - 143
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	57 - 140
1,2-Dichlorobenzene	ND		50.0	45.9		ug/L		92	52 - 137
1,3-Dichlorobenzene	ND		50.0	47.9		ug/L		96	54 - 135
1,4-Dichlorobenzene	ND		50.0	50.5		ug/L		101	53 - 135
Dichlorodifluoromethane	ND		50.0	52.7		ug/L		105	16 - 160
1,1-Dichloroethane	ND		50.0	49.7		ug/L		99	61 - 144
1,2-Dichloroethane	ND		50.0	48.3		ug/L		97	60 - 141
1,1-Dichloroethene	ND		50.0	48.4		ug/L		97	54 - 147
1,2-Dichloropropane	ND		50.0	50.4		ug/L		101	66 - 137
1,3-Dichloropropane	ND		50.0	52.1		ug/L		104	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-3 MS
Matrix: Water
Analysis Batch: 327688

Client Sample ID: MW26-ROX-101016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	48.6		ug/L		97	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	48.4		ug/L		97	58 - 131
Ethyl methacrylate	ND		50.0	49.9		ug/L		100	64 - 130
Hexachlorobutadiene	ND		50.0	47.4		ug/L		95	31 - 149
2-Hexanone	ND		200	188		ug/L		94	65 - 140
Isopropylbenzene	ND		50.0	45.8		ug/L		92	56 - 133
Methylene bromide	ND		50.0	50.7		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	49.3		ug/L		99	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	202		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	50.7		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.6		ug/L		97	57 - 130
Naphthalene	ND		50.0	48.7		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	45.9		ug/L		92	41 - 142
N-Propylbenzene	ND		50.0	49.6		ug/L		99	51 - 138
o-Chlorotoluene	ND		50.0	45.6		ug/L		91	53 - 134
o-Xylene	ND		50.0	46.9		ug/L		94	61 - 130
p-Chlorotoluene	ND		50.0	49.5		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	45.3		ug/L		91	48 - 139
sec-Butylbenzene	ND		50.0	44.8		ug/L		90	50 - 138
Styrene	ND		50.0	48.9		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	43.7		ug/L		87	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.7		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	52.3		ug/L		105	66 - 135
Tetrachloroethene	ND		50.0	45.8		ug/L		92	52 - 133
Toluene	ND		50.0	50.2		ug/L		100	65 - 130
trans-1,2-Dichloroethene	ND		50.0	51.1		ug/L		102	61 - 143
trans-1,3-Dichloropropene	ND		50.0	51.4		ug/L		103	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	45.7		ug/L		91	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	46.1		ug/L		92	39 - 148
1,1,1-Trichloroethane	ND		50.0	49.4		ug/L		99	57 - 142
1,1,2-Trichloroethane	ND		50.0	50.6		ug/L		101	66 - 131
Trichloroethene	ND		50.0	51.7		ug/L		103	64 - 136
Trichlorofluoromethane	ND		50.0	46.7		ug/L		93	54 - 156
1,2,3-Trichloropropane	ND		50.0	50.0		ug/L		100	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.7		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	45.0		ug/L		90	52 - 135
Vinyl acetate	ND		100	105		ug/L		105	26 - 160
Vinyl chloride	ND		50.0	47.4		ug/L		95	46 - 152
Xylenes, Total	ND		100	95.5		ug/L		96	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-3 MSD
Matrix: Water
Analysis Batch: 327688

Client Sample ID: MW26-ROX-101016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	153		ug/L		77	43 - 160	3	30
Acrolein	ND		500	516		ug/L		103	38 - 160	1	31
Acrylonitrile	ND		500	503		ug/L		101	62 - 149	1	30
Benzene	ND		50.0	52.6		ug/L		105	56 - 142	4	30
Bromobenzene	ND		50.0	51.7		ug/L		103	59 - 136	2	30
Bromochloromethane	ND		50.0	53.2		ug/L		106	64 - 140	6	30
Bromodichloromethane	ND		50.0	52.3		ug/L		105	59 - 143	2	30
Bromoform	ND		50.0	49.4		ug/L		99	50 - 140	1	30
Bromomethane	ND		50.0	52.5		ug/L		105	10 - 160	7	50
2-Butanone (MEK)	ND		200	195		ug/L		98	55 - 150	3	30
Carbon disulfide	ND		50.0	51.9		ug/L		104	48 - 152	4	30
Carbon tetrachloride	ND		50.0	52.8		ug/L		106	55 - 145	3	30
Chlorobenzene	ND		50.0	52.0		ug/L		104	64 - 130	1	30
Dibromochloromethane	ND		50.0	52.7		ug/L		105	56 - 143	2	30
Chloroethane	ND		50.0	51.1		ug/L		102	50 - 151	0	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	51.0		ug/L		102	60 - 141	1	30
1-Chlorohexane	ND		50.0	48.4		ug/L		97	56 - 136	1	30
Chloromethane	ND		50.0	48.2		ug/L		96	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	53.1		ug/L		106	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	46.3		ug/L		93	52 - 137	1	30
1,3-Dichlorobenzene	ND		50.0	48.3		ug/L		97	54 - 135	1	30
1,4-Dichlorobenzene	ND		50.0	49.3		ug/L		99	53 - 135	2	30
Dichlorodifluoromethane	ND		50.0	52.4		ug/L		105	16 - 160	1	31
1,1-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	50.5		ug/L		101	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	50.5		ug/L		101	54 - 147	4	30
1,2-Dichloropropane	ND		50.0	51.3		ug/L		103	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	53.1		ug/L		106	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	49.7		ug/L		99	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	52.6		ug/L		105	65 - 136	5	30
Ethylbenzene	ND		50.0	49.7		ug/L		99	58 - 131	3	30
Ethyl methacrylate	ND		50.0	52.6		ug/L		105	64 - 130	5	30
Hexachlorobutadiene	ND		50.0	50.1		ug/L		100	31 - 149	6	36
2-Hexanone	ND		200	189		ug/L		94	65 - 140	0	30
Isopropylbenzene	ND		50.0	47.6		ug/L		95	56 - 133	4	30
Methylene bromide	ND		50.0	51.1		ug/L		102	63 - 138	1	30
Methylene Chloride	ND		50.0	49.9		ug/L		100	60 - 146	1	32
4-Methyl-2-pentanone (MIBK)	ND		200	207		ug/L		103	63 - 146	2	30
Methyl tert-butyl ether	ND		50.0	51.9		ug/L		104	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	49.5		ug/L		99	57 - 130	2	30
Naphthalene	ND		50.0	50.5		ug/L		101	25 - 160	4	30
n-Butylbenzene	ND		50.0	46.1		ug/L		92	41 - 142	1	31
N-Propylbenzene	ND		50.0	48.8		ug/L		98	51 - 138	2	30
o-Chlorotoluene	ND		50.0	45.3		ug/L		91	53 - 134	1	30
o-Xylene	ND		50.0	49.0		ug/L		98	61 - 130	4	30
p-Chlorotoluene	ND		50.0	49.8		ug/L		100	54 - 133	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128516-3 MSD
Matrix: Water
Analysis Batch: 327688

Client Sample ID: MW26-ROX-101016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	45.9		ug/L		92	48 - 139	2	30
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138	3	30
Styrene	ND		50.0	49.6		ug/L		99	58 - 131	1	30
tert-Butylbenzene	ND		50.0	46.4		ug/L		93	54 - 146	6	30
1,1,1,2-Tetrachloroethane	ND		50.0	52.3		ug/L		105	59 - 137	7	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.4		ug/L		99	66 - 135	6	30
Tetrachloroethene	ND		50.0	47.1		ug/L		94	52 - 133	3	30
Toluene	ND		50.0	50.5		ug/L		101	65 - 130	1	30
trans-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	52.5		ug/L		105	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	49.2		ug/L		98	43 - 145	7	30
1,2,4-Trichlorobenzene	ND		50.0	46.0		ug/L		92	39 - 148	0	30
1,1,1-Trichloroethane	ND		50.0	50.9		ug/L		102	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	55.9		ug/L		112	66 - 131	10	30
Trichloroethene	ND		50.0	52.2		ug/L		104	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	48.3		ug/L		97	54 - 156	3	30
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139	0	30
1,3,5-Trimethylbenzene	ND		50.0	45.8		ug/L		92	52 - 135	2	30
Vinyl acetate	ND		100	106		ug/L		106	26 - 160	1	33
Vinyl chloride	ND		50.0	48.9		ug/L		98	46 - 152	3	30
Xylenes, Total	ND		100	98.5		ug/L		98	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327100/1-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/17/16 20:43	10/19/16 16:43	1
Benzenethiol	ND		10	1.7	ug/L		10/17/16 20:43	10/19/16 16:43	1
Benzoic acid	ND		30	7.3	ug/L		10/17/16 20:43	10/19/16 16:43	1
Benzyl alcohol	ND		10	2.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/17/16 20:43	10/19/16 16:43	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/17/16 20:43	10/19/16 16:43	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/17/16 20:43	10/19/16 16:43	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/17/16 20:43	10/19/16 16:43	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Chloroaniline	ND		10	3.4	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/17/16 20:43	10/19/16 16:43	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/17/16 20:43	10/19/16 16:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327100/1-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
Dibenzofuran	ND		10	0.52	ug/L		10/17/16 20:43	10/19/16 16:43	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
Diethyl phthalate	ND		10	0.70	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 16:43	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/17/16 20:43	10/19/16 16:43	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/17/16 20:43	10/19/16 16:43	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/17/16 20:43	10/19/16 16:43	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/17/16 20:43	10/19/16 16:43	1
1,4-Dioxane	ND		10	1.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/17/16 20:43	10/19/16 16:43	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/17/16 20:43	10/19/16 16:43	1
Hexachloroethane	ND		10	4.2	ug/L		10/17/16 20:43	10/19/16 16:43	1
Indene	ND		10	1.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
Isophorone	ND		10	0.57	ug/L		10/17/16 20:43	10/19/16 16:43	1
2-Methylphenol	ND		10	1.8	ug/L		10/17/16 20:43	10/19/16 16:43	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
2-Nitroaniline	ND		10	2.2	ug/L		10/17/16 20:43	10/19/16 16:43	1
3-Nitroaniline	ND		10	1.8	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Nitroaniline	ND		10	2.5	ug/L		10/17/16 20:43	10/19/16 16:43	1
Nitrobenzene	ND		10	0.55	ug/L		10/17/16 20:43	10/19/16 16:43	1
2-Nitrophenol	ND		10	0.65	ug/L		10/17/16 20:43	10/19/16 16:43	1
4-Nitrophenol	ND		10	2.1	ug/L		10/17/16 20:43	10/19/16 16:43	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 16:43	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/17/16 20:43	10/19/16 16:43	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/17/16 20:43	10/19/16 16:43	1
Pentachlorophenol	ND		20	1.8	ug/L		10/17/16 20:43	10/19/16 16:43	1
Phenol	ND		10	2.6	ug/L		10/17/16 20:43	10/19/16 16:43	1
Pyridine	ND		10	3.2	ug/L		10/17/16 20:43	10/19/16 16:43	1
Quinoline	ND		10	6.0	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/17/16 20:43	10/19/16 16:43	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/17/16 20:43	10/19/16 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*34 - 120*	*10/17/16 20:43*	*10/19/16 16:43*	*1*
2-Fluorophenol	*70*		*10 - 120*	*10/17/16 20:43*	*10/19/16 16:43*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/17/16 20:43*	*10/19/16 16:43*	*1*
Phenol-d5	*84*		*10 - 120*	*10/17/16 20:43*	*10/19/16 16:43*	*1*
Terphenyl-d14	*105*		*53 - 125*	*10/17/16 20:43*	*10/19/16 16:43*	*1*
2,4,6-Tribromophenol	*95*		*15 - 135*	*10/17/16 20:43*	*10/19/16 16:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327100/1-A
Matrix: Water
Analysis Batch: 327695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/17/16 20:43	10/21/16 11:47	1

Lab Sample ID: LCS 400-327100/2-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	18.6		ug/L		62	10 - 145
Benzoic acid	126	71.6		ug/L		57	10 - 120
Benzyl alcohol	30.0	12.9	*	ug/L		43	51 - 121
Bis(2-chloroethoxy)methane	30.0	23.1		ug/L		77	54 - 123
Bis(2-chloroethyl)ether	30.0	22.4		ug/L		75	47 - 120
bis (2-chloroisopropyl) ether	30.0	19.1		ug/L		64	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	32.3		ug/L		108	62 - 140
4-Bromophenyl phenyl ether	30.0	24.9		ug/L		83	62 - 132
Butyl benzyl phthalate	30.0	27.3		ug/L		91	51 - 150
4-Chloroaniline	30.0	20.2		ug/L		67	32 - 128
4-Chloro-3-methylphenol	30.0	27.1		ug/L		90	47 - 135
2-Chloronaphthalene	30.0	24.3		ug/L		81	24 - 150
2-Chlorophenol	30.0	20.5		ug/L		68	45 - 120
4-Chlorophenyl phenyl ether	30.0	27.4		ug/L		91	61 - 133
Dibenz[a,h]acridine	30.0	32.4		ug/L		108	60 - 131
Dibenzofuran	30.0	25.8		ug/L		86	62 - 124
3,3'-Dichlorobenzidine	40.0	38.8		ug/L		97	16 - 167
2,4-Dichlorophenol	30.0	25.8		ug/L		86	52 - 125
Diethyl phthalate	30.0	26.8		ug/L		89	55 - 140
2,4-Dimethylphenol	30.0	24.5		ug/L		82	52 - 121
Dimethyl phthalate	30.0	25.9		ug/L		86	50 - 133
Di-n-butyl phthalate	30.0	28.8		ug/L		96	59 - 144
4,6-Dinitro-ortho-cresol	60.0	55.2		ug/L		92	46 - 136
2,4-Dinitrophenol	101	106		ug/L		105	22 - 146
2,4-Dinitrotoluene	30.0	28.3		ug/L		94	54 - 141
2,6-Dinitrotoluene	30.0	26.0		ug/L		87	61 - 130
Di-n-octyl phthalate	30.0	29.8		ug/L		99	55 - 140
1,4-Dioxane	30.0	15.1		ug/L		50	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	20.5		ug/L		68	55 - 139
Hexachlorobenzene	30.0	26.6		ug/L		89	60 - 138
Hexachlorocyclopentadiene	30.0	9.99	J	ug/L		33	1 - 139
Hexachloroethane	30.0	20.4		ug/L		68	46 - 121
Indene	30.0	22.5		ug/L		75	17 - 141
Isophorone	30.0	22.3		ug/L		74	57 - 122
2-Methylphenol	30.0	25.8		ug/L		86	38 - 121
3 & 4 Methylphenol	30.0	21.6		ug/L		72	43 - 126
2-Nitroaniline	30.0	25.7		ug/L		86	52 - 135
3-Nitroaniline	30.0	23.7		ug/L		79	51 - 128
4-Nitroaniline	30.0	25.5		ug/L		85	38 - 141
Nitrobenzene	30.0	22.3		ug/L		74	52 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327100/2-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	30.0	26.4		ug/L		88	47 - 129
4-Nitrophenol	60.0	52.0		ug/L		87	34 - 137
N-Nitrosodimethylamine	30.0	32.7		ug/L		109	21 - 134
N-Nitrosodi-n-propylamine	30.0	20.6		ug/L		69	41 - 143
N-Nitrosodiphenylamine	29.8	22.9		ug/L		77	10 - 185
Pentachlorophenol	60.0	49.4		ug/L		82	38 - 138
Phenol	30.0	22.0		ug/L		73	37 - 120
Pyridine	30.0	21.3		ug/L		71	10 - 127
Quinoline	30.0	27.0		ug/L		90	10 - 164
2,4,5-Trichlorophenol	30.0	27.9		ug/L		93	53 - 130
2,4,6-Trichlorophenol	30.0	24.0		ug/L		80	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*34 - 120*
2-Fluorophenol	*91*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*104*		*53 - 125*
2,4,6-Tribromophenol	*115*		*15 - 135*

Lab Sample ID: LCS 400-327100/4-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	11.1		ug/L		37	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*34 - 120*
2-Fluorophenol	*90*		*10 - 120*
Nitrobenzene-d5	*86*		*27 - 120*
Phenol-d5	*64*		*10 - 120*
Terphenyl-d14	*149*	*X*	*53 - 125*
2,4,6-Tribromophenol	*104*		*15 - 135*

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	17.1		ug/L		57	10 - 145	8	30
Benzoic acid	126	75.7		ug/L		60	10 - 120	5	30
Bis(2-chloroethoxy)methane	30.0	21.3		ug/L		71	54 - 123	8	30
Bis(2-chloroethyl)ether	30.0	22.2		ug/L		74	47 - 120	1	30
4-Bromophenyl phenyl ether	30.0	22.9		ug/L		76	62 - 132	8	30
Butyl benzyl phthalate	30.0	31.3		ug/L		104	51 - 150	14	30
4-Chloroaniline	30.0	21.0		ug/L		70	32 - 128	4	30
4-Chloro-3-methylphenol	30.0	27.6		ug/L		92	47 - 135	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water
Analysis Batch: 327337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene	30.0	24.8		ug/L		83	24 - 150	2	30
2-Chlorophenol	30.0	19.2		ug/L		64	45 - 120	6	30
4-Chlorophenyl phenyl ether	30.0	25.8		ug/L		86	61 - 133	6	30
Dibenzofuran	30.0	25.5		ug/L		85	62 - 124	1	30
3,3'-Dichlorobenzidine	40.0	37.5		ug/L		94	16 - 167	3	30
2,4-Dichlorophenol	30.0	22.9		ug/L		76	52 - 125	12	30
Diethyl phthalate	30.0	29.6		ug/L		99	55 - 140	10	30
2,4-Dimethylphenol	30.0	22.2		ug/L		74	52 - 121	10	30
Dimethyl phthalate	30.0	26.2		ug/L		87	50 - 133	1	30
Di-n-butyl phthalate	30.0	32.0		ug/L		107	59 - 144	10	30
4,6-Dinitro-ortho-cresol	60.0	54.4		ug/L		91	46 - 136	1	30
2,4-Dinitrophenol	101	102		ug/L		100	22 - 146	5	30
2,4-Dinitrotoluene	30.0	29.0		ug/L		97	54 - 141	3	30
2,6-Dinitrotoluene	30.0	25.8		ug/L		86	61 - 130	1	30
Di-n-octyl phthalate	30.0	33.8		ug/L		113	55 - 140	13	30
1,4-Dioxane	30.0	15.7		ug/L		52	10 - 130	4	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.1		ug/L		87	55 - 139	24	30
Hexachlorobenzene	30.0	24.1		ug/L		80	60 - 138	10	30
Hexachlorocyclopentadiene	30.0	7.45	J	ug/L		25	1 - 139	29	30
Hexachloroethane	30.0	24.5		ug/L		82	46 - 121	18	30
Indene	30.0	29.3		ug/L		98	17 - 141	26	30
Isophorone	30.0	20.7		ug/L		69	57 - 122	7	30
2-Methylphenol	30.0	33.7		ug/L		112	38 - 121	27	30
2-Nitroaniline	30.0	32.3		ug/L		108	52 - 135	23	30
3-Nitroaniline	30.0	28.3		ug/L		94	51 - 128	18	30
4-Nitroaniline	30.0	30.8		ug/L		103	38 - 141	19	30
Nitrobenzene	30.0	20.9		ug/L		70	52 - 128	6	30
2-Nitrophenol	30.0	22.7		ug/L		76	47 - 129	15	30
4-Nitrophenol	60.0	58.6		ug/L		98	34 - 137	12	30
N-Nitrosodimethylamine	30.0	31.1		ug/L		104	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	27.9		ug/L		93	41 - 143	30	30
N-Nitrosodiphenylamine	29.8	23.5		ug/L		79	10 - 185	2	30
Pentachlorophenol	60.0	41.3		ug/L		69	38 - 138	18	30
Phenol	30.0	20.8		ug/L		69	37 - 120	6	30
Pyridine	30.0	22.5		ug/L		75	10 - 127	5	30
Quinoline	30.0	27.2		ug/L		91	10 - 164	1	30
2,4,5-Trichlorophenol	30.0	25.8		ug/L		86	53 - 130	8	30
2,4,6-Trichlorophenol	30.0	22.9		ug/L		76	52 - 131	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*34 - 120*
2-Fluorophenol	*60*		*10 - 120*
Nitrobenzene-d5	*73*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*107*		*53 - 125*
2,4,6-Tribromophenol	*91*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water
Analysis Batch: 327695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzyl alcohol	30.0	20.3	*	ug/L		68	51 - 121	45	30
bis (2-chloroisopropyl) ether	30.0	22.3		ug/L		74	20 - 142	15	30
Bis(2-ethylhexyl) phthalate	30.0	38.9		ug/L		130	62 - 140	18	30
Dibenz[a,h]acridine	30.0	34.4		ug/L		115	60 - 131	6	30
3 & 4 Methylphenol	30.0	23.2		ug/L		77	43 - 126	7	30

Lab Sample ID: LCSD 400-327100/5-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		1	20 - 150	188	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*44*		*34 - 120*
2-Fluorophenol	*21*		*10 - 120*
Nitrobenzene-d5	*44*		*27 - 120*
Phenol-d5	*14*		*10 - 120*
Terphenyl-d14	*49*	*X*	*53 - 125*
2,4,6-Tribromophenol	*17*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-327100/1-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
Anthracene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Chrysene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Fluoranthene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
Fluorene	ND		0.20	0.021	ug/L		10/17/16 20:43	10/18/16 18:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/17/16 20:43	10/18/16 18:31	1
Phenanthrene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
Pyrene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/17/16 20:43	10/18/16 18:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-327100/1-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327100

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	101		33 - 138	10/17/16 20:43	10/18/16 18:31	1
2-Fluorobiphenyl	95		15 - 122	10/17/16 20:43	10/18/16 18:31	1
Nitrobenzene-d5	84		19 - 130	10/17/16 20:43	10/18/16 18:31	1

Lab Sample ID: LCS 400-327100/2-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.5		ug/L		92	41 - 120
Acenaphthylene	30.0	26.5		ug/L		88	44 - 120
Anthracene	30.0	28.5		ug/L		95	49 - 120
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135
Benzo[a]pyrene	30.0	28.7		ug/L		96	52 - 120
Benzo[b]fluoranthene	30.0	26.4		ug/L		88	53 - 134
Benzo[g,h,i]perylene	30.0	23.8		ug/L		79	47 - 133
Benzo[k]fluoranthene	30.0	32.9		ug/L		110	57 - 134
Chrysene	30.0	28.7		ug/L		96	55 - 122
Dibenz(a,h)anthracene	30.0	24.9		ug/L		83	48 - 146
Fluoranthene	30.0	30.6		ug/L		102	54 - 128
Fluorene	30.0	28.7		ug/L		96	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.2		ug/L		81	43 - 142
Phenanthrene	30.0	27.9		ug/L		93	48 - 120
Pyrene	30.0	25.4		ug/L		85	48 - 132
1-Methylnaphthalene	30.0	22.9		ug/L		76	41 - 120
2-Methylnaphthalene	30.0	22.8		ug/L		76	32 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	94		33 - 138
2-Fluorobiphenyl	90		15 - 122
Nitrobenzene-d5	78		19 - 130

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.7		ug/L		96	41 - 120	4	56
Acenaphthylene	30.0	26.6		ug/L		89	44 - 120	0	56
Anthracene	30.0	29.1		ug/L		97	49 - 120	2	51
Benzo[a]anthracene	30.0	27.7		ug/L		92	61 - 135	1	49
Benzo[a]pyrene	30.0	29.4		ug/L		98	52 - 120	2	50
Benzo[b]fluoranthene	30.0	29.6		ug/L		99	53 - 134	12	54
Benzo[g,h,i]perylene	30.0	23.5		ug/L		78	47 - 133	2	50
Benzo[k]fluoranthene	30.0	31.8		ug/L		106	57 - 134	3	52
Chrysene	30.0	29.7		ug/L		99	55 - 122	3	50
Dibenz(a,h)anthracene	30.0	25.7		ug/L		86	48 - 146	3	50
Fluoranthene	30.0	31.7		ug/L		106	54 - 128	4	52

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-327100/3-A
Matrix: Water
Analysis Batch: 327193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	30.0	31.6		ug/L		105	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	30.0	25.1		ug/L		84	43 - 142	3	51
Phenanthrene	30.0	28.7		ug/L		96	48 - 120	3	56
Pyrene	30.0	25.4		ug/L		85	48 - 132	0	52
1-Methylnaphthalene	30.0	22.7		ug/L		76	41 - 120	1	55
2-Methylnaphthalene	30.0	23.1		ug/L		77	32 - 124	2	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*96*		*33 - 138*
2-Fluorobiphenyl	*94*		*15 - 122*
Nitrobenzene-d5	*79*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327548/1-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 03:19	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*177*	*X*	*51 - 149*	*10/20/16 10:29*	*10/21/16 03:19*	*1*

Lab Sample ID: LCS 400-327548/2-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327548

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*151*	*X*	*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES_____

Print Bill To Contact Name: Bob Billman

PO #: 60477387 - 1.03.004 / 1.03.0044

PlaNet Site or Project ID: 25278

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10 Oct. 2016

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Josh Clark / Dave Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

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

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60477387 - 1.03.0044: VOC 8011	PAH 8270LL	NON-UNIT COST 60477387 - 1.03.004: VOC 8260	SVOC 8270
	TB-ROX-101016-B-8011	10/10/16	0000	Water	2					2	X			
	TB-ROX-101016-B-8260		0000		2					2			X	
	MW26-ROX-101016		1010		4			2		6	X	X	X	X
	MW6C-ROX-101016	↓	1355	↓	4			2		6	X	X	X	X

Joshua Clark
10 Oct. 2016

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

400-128516 COC

Relinquished by: (Signature) Joshua Clark — Date: 10 Oct. 2016 — Time: 1730

Relinquished by: (Signature) — Date: — Time:

Relinquished by: (Signature) — Date: — Time:

Received — Ref: S400-52240 Dep: — Date: 25Jan16 — Wgt: 10.00 LBS — DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

SVCS: PRIORITY OVERNIGHT
TRCK: 6546 8382 3620

Version: 14Dec15

Custody Seals: Test America: 665147 / 665148 10/11/16 934 TA 0.0°C IR6

Page 42 of 44

10/27/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128516-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128516
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128516-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128591-1-R1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/5/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101116-8011	TB-ROX-101116-8260
MW6B-ROX-101116	MW6A-ROX-101116
MW12-ROX-101116	MW16-ROX-101116
MW24-ROX-101116-EB	MW24-ROX-101116

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 bis(2-ethylhexyl) phthalate was detected in the method blank, and although not indicated in the laboratory case narrative, diethyl phthalate and bis(2-ethylhexyl) phthalate were detected in the equipment blank. The SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPD for benzenethiol were outside evaluation criteria. The VOC by 8011 surrogate recovery for 4-bromofluorobenzene was outside criteria in the VOC by 8011 method blank and LCS quality control samples. Method 8260 VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample MW6A-ROX-101116. Additionally, the continuing calibration verification for hexachloroethane, 1,2-diphenylhydrazine (azobenzene), 1,4-dioxane, n-nitrosodi-n-propylamine, benzyl alcohol, 2-methylphenol, and 3&4-methylphenol exceeded evaluation criteria biased low. These issues are addressed further in the appropriate sections below.

Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that two of five coolers were received by the laboratory at temperatures of 0.0°C and 1.7°C, which are outside the 4ºC ± 2ºC criteria. The laboratory report was revised on December 5, 2016 to correctly report laboratory receipt temperatures to those indicated on the COC. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MW24-ROX-101116-EB	SVOCs	Bis(2-ethylhexyl) phthalate	3.4 µg/L
MW24-ROX-101116-EB	SVOCs	Diethyl phthalate	1.7 µg/L
MB 400-327215/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	7.66 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
MW6B-ROX-101116	SVOCs	Bis(2-ethylhexyl) phthalate	-	**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
LCS/LCSD 400-327215/4-A/5-A	SVOCs	Benzenethiol	**3/1**	**88**	20-150/30

Analytical data that required qualification based on LCS data are included in the table below. Professional judgment was used to qualify, however not reject, data associated with benzenethiol in LCS/LCSD 400-327215/4-A/5-A; benzenethiol has been identified as a poor performing analyte using Method 8270 SVOC.

Sample ID	Parameter	Analyte	Qualification
MW6B-ROX-101116	SVOCs	Benzenethiol	**UJ**
MW6A-ROX-101116	SVOCs	Benzenethiol	**UJ**
MW12-ROX-101116	SVOCs	Benzenethiol	**UJ**
MW16-ROX-101116	SVOCs	Benzenethiol	**UJ**
MW24-ROX-101116	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MB 400-327548/1-A	VOCs by 8011	4-Bromofluorobenzene	**177**	51-149
LCS 400-327548/2-A	VOCs by 8011	4-Bromofluorobenzene	**151**	51-149

Method blank MB 400-327548/1-A and LCS 400-327548/2-A are quality control samples, and do not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, although not requested, sample MW6A-ROX-101116 was spiked and analyzed for Method 8260 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW6A-ROX-101116	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for hexachloroethane, 1,2-diphenylhydrazine (azobenzene), 1,4-dioxane, n-nitrosodi-n-propylamine, benzyl alcohol, 2-methylphenol,

and 3&4-methylphenol was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW6B-ROX-101116	SVOCs	Hexachloroethane	-	UJ
MW6B-ROX-101116	SVOCs	1,2-Diphenylhydrazine (azobenzene)	-	UJ
MW6B-ROX-101116	SVOCs	1,4-Dioxane	-	UJ
MW6B-ROX-101116	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW6B-ROX-101116	SVOCs	Benzyl alcohol	-	UJ
MW6B-ROX-101116	SVOCs	2-Methylphenol	-	UJ
MW6B-ROX-101116	SVOCs	3&4-Methylphenol	-	UJ
MW6A-ROX-101116	SVOCs	Hexachloroethane	-	UJ
MW6A-ROX-101116	SVOCs	1,2-Diphenylhydrazine (azobenzene)	-	UJ
MW6A-ROX-101116	SVOCs	1,4-Dioxane	-	UJ
MW6A-ROX-101116	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW6A-ROX-101116	SVOCs	Benzyl alcohol	-	UJ
MW6A-ROX-101116	SVOCs	2-Methylphenol	-	UJ
MW6A-ROX-101116	SVOCs	3&4-Methylphenol	-	UJ
MW12-ROX-101116	SVOCs	Hexachloroethane	-	UJ
MW12-ROX-101116	SVOCs	1,2-Diphenylhydrazine (azobenzene)	-	UJ
MW12-ROX-101116	SVOCs	1,4-Dioxane	-	UJ
MW12-ROX-101116	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW12-ROX-101116	SVOCs	Benzyl alcohol	-	UJ
MW12-ROX-101116	SVOCs	2-Methylphenol	-	UJ
MW12-ROX-101116	SVOCs	3&4-Methylphenol	-	UJ
MW16-ROX-101116	SVOCs	Hexachloroethane	-	UJ
MW16-ROX-101116	SVOCs	1,2-Diphenylhydrazine (azobenzene)	-	UJ
MW16-ROX-101116	SVOCs	1,4-Dioxane	-	UJ
MW16-ROX-101116	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW16-ROX-101116	SVOCs	Benzyl alcohol	-	UJ
MW16-ROX-101116	SVOCs	2-Methylphenol	-	UJ
MW16-ROX-101116	SVOCs	3&4-Methylphenol	-	UJ
MW24-ROX-101116	SVOCs	Hexachloroethane	-	UJ
MW24-ROX-101116	SVOCs	1,2-Diphenylhydrazine (azobenzene)	-	UJ
MW24-ROX-101116	SVOCs	1,4-Dioxane	-	UJ
MW24-ROX-101116	SVOCs	N-nitrosodi-n-propylamine	-	UJ
MW24-ROX-101116	SVOCs	Benzyl alcohol	-	UJ

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW24-ROX-101116	SVOCs	2-Methylphenol	-	**UJ**
MW24-ROX-101116	SVOCs	3&4-Methylphenol	-	**UJ**

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128591-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY GW (4Q16)
Revision: 1

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn N. Hooper

Authorized for release by:
12/5/2016 3:41:39 PM

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LINKS

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Reviewed 12/5/2016

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128591-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128591-1

Receipt
The samples were received on 10/12/2016 9:06 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.0°C, 1.7°C, 2.1°C, 2.6°C and 4.7°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101116-8260 (400-128591-2), MW6B-ROX-101116 (400-128591-3), MW6A-ROX-101116 (400-128591-4), MW12-ROX-101116 (400-128591-5), MW16-ROX-101116 (400-128591-6), MW24-ROX-101116-EB (400-128591-7) and MW24-ROX-101116 (400-128591-8). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327864 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-327864 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 400-327522 recovered outside acceptance criteria, low biased, for Hexachloroethane, 1,2-Diphenylhydrazine (as Azobenzene), 1,4-Dioxane, N-Nitrosodi-n-propylamine, Benzyl alcohol, 2-Methylphenol and 3 & 4 Methylphenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-327215 and analytical batch 400-327522 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The method blank for preparation batch 400-327215 and analytical batch 400-327522 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: (LCS 400-327548/2-A) and (MB 400-327548/1-A). Associated sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-327215.

Revision 1
This report has been revised to correct one of the cooler temperatures listed under "Receipt" in this narrative that was inadvertently listed as 7.6°C instead of the 4.7°C as notated on the COC and "Sample Receipt Checklist".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128591-1	TB-ROX-101116-8011	Water	10/11/16 00:00	10/12/16 09:06
400-128591-2	TB-ROX-101116-8260	Water	10/11/16 00:00	10/12/16 09:06
400-128591-3	MW6B-ROX-101116	Water	10/11/16 09:15	10/12/16 09:06
400-128591-4	MW6A-ROX-101116	Water	10/11/16 10:00	10/12/16 09:06
400-128591-5	MW12-ROX-101116	Water	10/11/16 11:00	10/12/16 09:06
400-128591-6	MW16-ROX-101116	Water	10/11/16 12:10	10/12/16 09:06
400-128591-7	MW24-ROX-101116-EB	Water	10/11/16 13:30	10/12/16 09:06
400-128591-8	MW24-ROX-101116	Water	10/11/16 14:15	10/12/16 09:06

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101116-8011 — Lab Sample ID: 400-128591-1

No Detections.

Client Sample ID: TB-ROX-101116-8260 — Lab Sample ID: 400-128591-2

No Detections.

Client Sample ID: MW6B-ROX-101116 — Lab Sample ID: 400-128591-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.038	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.060	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	2.8	J B	10	2.3	ug/L	1		8270D	Total/NA

Client Sample ID: MW6A-ROX-101116 — Lab Sample ID: 400-128591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.7		1.0	0.74	ug/L	1		8260B	Total/NA

Client Sample ID: MW12-ROX-101116 — Lab Sample ID: 400-128591-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.061	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.052	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Pyrene	0.029	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.025	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.036	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Benzoic acid	8.7	J	30	7.3	ug/L	1		8270D	Total/NA

Client Sample ID: MW16-ROX-101116 — Lab Sample ID: 400-128591-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.020	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.033	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW24-ROX-101116-EB — Lab Sample ID: 400-128591-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	3.4	J B	10	2.3	ug/L	1		8270D	Total/NA
Diethyl phthalate	1.7	J	10	0.70	ug/L	1		8270D	Total/NA

Client Sample ID: MW24-ROX-101116 — Lab Sample ID: 400-128591-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.021	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.029	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101116-8011

Date Collected: 10/11/16 00:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-1

Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/20/16 10:29	10/21/16 05:47	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/20/16 10:29	10/21/16 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*10/20/16 10:29*	*10/21/16 05:47*	*1*

Client Sample ID: TB-ROX-101116-8260
Date Collected: 10/11/16 00:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 17:35	1
Acrolein	ND		20	10	ug/L			10/22/16 17:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 17:35	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 17:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 17:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 17:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 17:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 17:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 17:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 17:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 17:35	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 17:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 17:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 17:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 17:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 17:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 17:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 17:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 17:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 17:35	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 17:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 17:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 17:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 17:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 17:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 17:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 17:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 17:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 17:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 17:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 17:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 17:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 17:35	1

Client Sample ID: TB-ROX-101116-8260
Date Collected: 10/11/16 00:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 17:35	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 17:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 17:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 17:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 17:35	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 17:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 17:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 17:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 17:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 17:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 17:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 17:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 17:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 17:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 17:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 17:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 17:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/16 17:35*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*10/22/16 17:35*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/16 17:35*	*1*

Client Sample ID: MW6B-ROX-101116

Date Collected: 10/11/16 09:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 18:00	1
Acrolein	ND		20	10	ug/L			10/22/16 18:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 18:00	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 18:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 18:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 18:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 18:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 18:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 18:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 18:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 18:00	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 18:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 18:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 18:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 18:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 18:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 18:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 18:00	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 18:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 18:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 18:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 18:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 18:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 18:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 18:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 18:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 18:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 18:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 18:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 18:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 18:00	1

Client Sample ID: MW6B-ROX-101116
Date Collected: 10/11/16 09:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 18:00	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 18:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 18:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 18:00	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 18:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 18:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 18:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 18:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 18:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 18:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 18:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 18:00	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/22/16 18:00*	*1*
Dibromofluoromethane	*113*		*81 - 121*		*10/22/16 18:00*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/16 18:00*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 10:50	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 10:50	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
1-Methylnaphthalene	**0.038**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1
2-Methylnaphthalene	**0.060**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*33 - 138*	*10/18/16 13:39*	*10/20/16 10:50*	*1*
2-Fluorobiphenyl	*78*		*15 - 122*	*10/18/16 13:39*	*10/20/16 10:50*	*1*

Client Sample ID: MW6B-ROX-101116
Date Collected: 10/11/16 09:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*19 - 130*	*10/18/16 13:39*	*10/20/16 10:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 14:35	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/18/16 13:39	10/20/16 14:35	1
Benzoic acid	ND		30	7.3	ug/L		10/18/16 13:39	10/20/16 14:35	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 14:35	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 14:35	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 14:35	1
Bis(2-ethylhexyl) phthalate	~~2.8~~	J B U	10	2.3	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 14:35	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 14:35	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 14:35	1
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 14:35	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Diethyl phthalate	ND		10	0.70	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 14:35	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 14:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 14:35	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 14:35	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 14:35	1
1,4-Dioxane	ND	UJ	10	1.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	UJ	10	1.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 14:35	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 14:35	1
Hexachloroethane	ND	UJ	10	4.2	ug/L		10/18/16 13:39	10/20/16 14:35	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 14:35	1
2-Methylphenol	ND	UJ	10	1.8	ug/L		10/18/16 13:39	10/20/16 14:35	1
3 & 4 Methylphenol	ND	UJ	20	1.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 14:35	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 14:35	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 14:35	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 14:35	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 14:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 14:35	1

Client Sample ID: MW6B-ROX-101116
Date Collected: 10/11/16 09:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 14:35	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 14:35	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 14:35	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 14:35	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 14:35	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 14:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/18/16 13:39*	*10/20/16 14:35*	*1*
2-Fluorophenol	*45*		*10 - 120*	*10/18/16 13:39*	*10/20/16 14:35*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/18/16 13:39*	*10/20/16 14:35*	*1*
Phenol-d5	*48*		*10 - 120*	*10/18/16 13:39*	*10/20/16 14:35*	*1*
Terphenyl-d14	*72*		*53 - 125*	*10/18/16 13:39*	*10/20/16 14:35*	*1*
2,4,6-Tribromophenol	*78*		*15 - 135*	*10/18/16 13:39*	*10/20/16 14:35*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/20/16 10:29	10/21/16 06:17	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*143*		*51 - 149*	*10/20/16 10:29*	*10/21/16 06:17*	*1*

Client Sample ID: MW6A-ROX-101116
Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 14:59	1
Acrolein	ND		20	10	ug/L			10/22/16 14:59	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 14:59	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 14:59	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 14:59	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 14:59	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 14:59	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 14:59	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 14:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 14:59	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/22/16 14:59	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 14:59	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 14:59	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 14:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 14:59	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 14:59	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 14:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 14:59	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 14:59	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 14:59	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 14:59	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 14:59	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 14:59	1
Methyl tert-butyl ether	**2.7**		1.0	0.74	ug/L			10/22/16 14:59	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 14:59	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 14:59	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 14:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 14:59	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 14:59	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 14:59	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 14:59	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 14:59	1

Client Sample ID: MW6A-ROX-101116
Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 14:59	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 14:59	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 14:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 14:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 14:59	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 14:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 14:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 14:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:59	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 14:59	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 14:59	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 14:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 14:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 14:59	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 14:59	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 14:59	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*10/22/16 14:59*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/22/16 14:59*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/16 14:59*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 11:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:13	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*65*		*33 - 138*	*10/18/16 13:39*	*10/20/16 11:13*	*1*
2-Fluorobiphenyl	*75*		*15 - 122*	*10/18/16 13:39*	*10/20/16 11:13*	*1*

Client Sample ID: MW6A-ROX-101116
Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*19 - 130*	*10/18/16 13:39*	*10/20/16 11:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 15:05	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/18/16 13:39	10/20/16 15:05	1
Benzoic acid	ND		30	7.3	ug/L		10/18/16 13:39	10/20/16 15:05	1
Benzyl alcohol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 15:05	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 15:05	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 15:05	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 15:05	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 15:05	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 15:05	1
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 15:05	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Diethyl phthalate	ND		10	0.70	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:05	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 15:05	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 15:05	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 15:05	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 15:05	1
1,4-Dioxane	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 15:05	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 15:05	1
Hexachloroethane	ND		10	4.2	ug/L		10/18/16 13:39	10/20/16 15:05	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 15:05	1
2-Methylphenol	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 15:05	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 15:05	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 15:05	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 15:05	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 15:05	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 15:05	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:05	1

Client Sample ID: MW6A-ROX-101116
Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 15:05	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 15:05	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 15:05	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 15:05	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 15:05	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 15:05	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/18/16 13:39*	*10/20/16 15:05*	*1*
2-Fluorophenol	*61*		*10 - 120*	*10/18/16 13:39*	*10/20/16 15:05*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/18/16 13:39*	*10/20/16 15:05*	*1*
Phenol-d5	*45*		*10 - 120*	*10/18/16 13:39*	*10/20/16 15:05*	*1*
Terphenyl-d14	*63*		*53 - 125*	*10/18/16 13:39*	*10/20/16 15:05*	*1*
2,4,6-Tribromophenol	*65*		*15 - 135*	*10/18/16 13:39*	*10/20/16 15:05*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/20/16 10:29	10/21/16 06:46	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/20/16 10:29	10/21/16 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*142*		*51 - 149*	*10/20/16 10:29*	*10/21/16 06:46*	*1*

Client Sample ID: MW12-ROX-101116

Date Collected: 10/11/16 11:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 18:26	1
Acrolein	ND		20	10	ug/L			10/22/16 18:26	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 18:26	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 18:26	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 18:26	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 18:26	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 18:26	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 18:26	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 18:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 18:26	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 18:26	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 18:26	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 18:26	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 18:26	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:26	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 18:26	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 18:26	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 18:26	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 18:26	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 18:26	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 18:26	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 18:26	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 18:26	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 18:26	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 18:26	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 18:26	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 18:26	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 18:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 18:26	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 18:26	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 18:26	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 18:26	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 18:26	1

Client Sample ID: MW12-ROX-101116
Date Collected: 10/11/16 11:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 18:26	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 18:26	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 18:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 18:26	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 18:26	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 18:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 18:26	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:26	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 18:26	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 18:26	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 18:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 18:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 18:26	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 18:26	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 18:26	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/22/16 18:26*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/22/16 18:26*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/22/16 18:26*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Benzo[b]fluoranthene	**0.061**	**J**	0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Fluoranthene	**0.052**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 11:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 11:36	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
Pyrene	**0.029**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
1-Methylnaphthalene	**0.025**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1
2-Methylnaphthalene	**0.036**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*33 - 138*	*10/18/16 13:39*	*10/20/16 11:36*	*1*
2-Fluorobiphenyl	*84*		*15 - 122*	*10/18/16 13:39*	*10/20/16 11:36*	*1*

Client Sample ID: MW12-ROX-101116
Date Collected: 10/11/16 11:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*19 - 130*	*10/18/16 13:39*	*10/20/16 11:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 15:35	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/18/16 13:39	10/20/16 15:35	1
Benzoic acid	**8.7**	**J**	30	7.3	ug/L		10/18/16 13:39	10/20/16 15:35	1
Benzyl alcohol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 15:35	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 15:35	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 15:35	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 15:35	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 15:35	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 15:35	1
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 15:35	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Diethyl phthalate	ND		10	0.70	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:35	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 15:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 15:35	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 15:35	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 15:35	1
1,4-Dioxane	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 15:35	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 15:35	1
Hexachloroethane	ND		10	4.2	ug/L		10/18/16 13:39	10/20/16 15:35	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 15:35	1
2-Methylphenol	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 15:35	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 15:35	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 15:35	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 15:35	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 15:35	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 15:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:35	1

Client Sample ID: MW12-ROX-101116
Date Collected: 10/11/16 11:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 15:35	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 15:35	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 15:35	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 15:35	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 15:35	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 15:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/18/16 13:39*	*10/20/16 15:35*	*1*
2-Fluorophenol	*22*		*10 - 120*	*10/18/16 13:39*	*10/20/16 15:35*	*1*
Nitrobenzene-d5	*104*		*27 - 120*	*10/18/16 13:39*	*10/20/16 15:35*	*1*
Phenol-d5	*44*		*10 - 120*	*10/18/16 13:39*	*10/20/16 15:35*	*1*
Terphenyl-d14	*78*		*53 - 125*	*10/18/16 13:39*	*10/20/16 15:35*	*1*
2,4,6-Tribromophenol	*59*		*15 - 135*	*10/18/16 13:39*	*10/20/16 15:35*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/20/16 10:29	10/21/16 07:16	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/20/16 10:29	10/21/16 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*148*		*51 - 149*	*10/20/16 10:29*	*10/21/16 07:16*	*1*

Client Sample ID: MW16-ROX-101116

Date Collected: 10/11/16 12:10
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 18:52	1
Acrolein	ND		20	10	ug/L			10/22/16 18:52	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 18:52	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 18:52	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 18:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 18:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 18:52	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 18:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 18:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 18:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 18:52	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 18:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 18:52	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 18:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 18:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 18:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 18:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 18:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 18:52	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 18:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 18:52	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 18:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 18:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 18:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 18:52	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 18:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 18:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 18:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 18:52	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 18:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 18:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 18:52	1

Client Sample ID: MW16-ROX-101116
Date Collected: 10/11/16 12:10
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 18:52	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 18:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 18:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 18:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 18:52	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 18:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 18:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 18:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 18:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 18:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 18:52	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 18:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 18:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 18:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 18:52	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 18:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 18:52	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/22/16 18:52*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/22/16 18:52*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/16 18:52*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Chrysene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 11:59	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/18/16 13:39	10/20/16 11:59	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
1-Methylnaphthalene	**0.020**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1
2-Methylnaphthalene	**0.033**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*81*		*33 - 138*	*10/18/16 13:39*	*10/20/16 11:59*	*1*
2-Fluorobiphenyl	*77*		*15 - 122*	*10/18/16 13:39*	*10/20/16 11:59*	*1*

Client Sample ID: MW16-ROX-101116
Date Collected: 10/11/16 12:10
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*19 - 130*	*10/18/16 13:39*	*10/20/16 11:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.7	ug/L		10/18/16 13:39	10/20/16 16:05	1
Benzenethiol	ND	* UJ	9.9	1.7	ug/L		10/18/16 13:39	10/20/16 16:05	1
Benzoic acid	ND		30	7.2	ug/L		10/18/16 13:39	10/20/16 16:05	1
Benzyl alcohol	ND		9.9	2.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		10/18/16 13:39	10/20/16 16:05	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		10/18/16 13:39	10/20/16 16:05	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		10/18/16 13:39	10/20/16 16:05	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		10/18/16 13:39	10/20/16 16:05	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Chloroaniline	ND		9.9	3.3	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Chloro-3-methylphenol	ND		9.9	3.7	ug/L		10/18/16 13:39	10/20/16 16:05	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		10/18/16 13:39	10/20/16 16:05	1
2-Chlorophenol	ND		9.9	2.2	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
Dibenzofuran	ND		9.9	0.51	ug/L		10/18/16 13:39	10/20/16 16:05	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
Diethyl phthalate	ND		9.9	0.69	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4-Dimethylphenol	ND		9.9	3.4	ug/L		10/18/16 13:39	10/20/16 16:05	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		10/18/16 13:39	10/20/16 16:05	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		10/18/16 13:39	10/20/16 16:05	1
4,6-Dinitro-ortho-cresol	ND		9.9	2.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4-Dinitrophenol	ND		30	3.3	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		10/18/16 13:39	10/20/16 16:05	1
Di-n-octyl phthalate	ND		9.9	0.43	ug/L		10/18/16 13:39	10/20/16 16:05	1
1,4-Dioxane	ND		9.9	0.99	ug/L		10/18/16 13:39	10/20/16 16:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		10/18/16 13:39	10/20/16 16:05	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		10/18/16 13:39	10/20/16 16:05	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 16:05	1
Hexachloroethane	ND		9.9	4.1	ug/L		10/18/16 13:39	10/20/16 16:05	1
Indene	ND		9.9	0.99	ug/L		10/18/16 13:39	10/20/16 16:05	1
Isophorone	ND		9.9	0.56	ug/L		10/18/16 13:39	10/20/16 16:05	1
2-Methylphenol	ND		9.9	1.8	ug/L		10/18/16 13:39	10/20/16 16:05	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 16:05	1
2-Nitroaniline	ND		9.9	2.2	ug/L		10/18/16 13:39	10/20/16 16:05	1
3-Nitroaniline	ND		9.9	1.8	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Nitroaniline	ND		9.9	2.4	ug/L		10/18/16 13:39	10/20/16 16:05	1
Nitrobenzene	ND		9.9	0.54	ug/L		10/18/16 13:39	10/20/16 16:05	1
2-Nitrophenol	ND		9.9	0.64	ug/L		10/18/16 13:39	10/20/16 16:05	1
4-Nitrophenol	ND		9.9	2.1	ug/L		10/18/16 13:39	10/20/16 16:05	1
N-Nitrosodimethylamine	ND		9.9	3.4	ug/L		10/18/16 13:39	10/20/16 16:05	1

Client Sample ID: MW16-ROX-101116
Date Collected: 10/11/16 12:10
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.9	3.3	ug/L		10/18/16 13:39	10/20/16 16:05	1
N-Nitrosodiphenylamine	ND		9.9	0.46	ug/L		10/18/16 13:39	10/20/16 16:05	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 16:05	1
Phenol	ND		9.9	2.6	ug/L		10/18/16 13:39	10/20/16 16:05	1
Pyridine	ND		9.9	3.2	ug/L		10/18/16 13:39	10/20/16 16:05	1
Quinoline	ND		9.9	5.9	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4,5-Trichlorophenol	ND		9.9	3.6	ug/L		10/18/16 13:39	10/20/16 16:05	1
2,4,6-Trichlorophenol	ND		9.9	3.4	ug/L		10/18/16 13:39	10/20/16 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/18/16 13:39*	*10/20/16 16:05*	*1*
2-Fluorophenol	*21*		*10 - 120*	*10/18/16 13:39*	*10/20/16 16:05*	*1*
Nitrobenzene-d5	*82*		*27 - 120*	*10/18/16 13:39*	*10/20/16 16:05*	*1*
Phenol-d5	*57*		*10 - 120*	*10/18/16 13:39*	*10/20/16 16:05*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/18/16 13:39*	*10/20/16 16:05*	*1*
2,4,6-Tribromophenol	*80*		*15 - 135*	*10/18/16 13:39*	*10/20/16 16:05*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 07:46	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*130*		*51 - 149*	*10/20/16 10:29*	*10/21/16 07:46*	*1*

Client Sample ID: MW24-ROX-101116-EB

Date Collected: 10/11/16 13:30
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 19:18	1
Acrolein	ND		20	10	ug/L			10/22/16 19:18	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 19:18	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 19:18	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 19:18	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 19:18	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 19:18	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 19:18	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 19:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 19:18	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 19:18	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 19:18	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 19:18	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 19:18	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 19:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 19:18	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 19:18	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 19:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 19:18	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 19:18	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 19:18	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 19:18	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 19:18	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 19:18	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 19:18	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 19:18	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 19:18	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 19:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 19:18	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 19:18	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 19:18	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 19:18	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 19:18	1

Client Sample ID: MW24-ROX-101116-EB

Lab Sample ID: 400-128591-7

Date Collected: 10/11/16 13:30
Matrix: Water
Date Received: 10/12/16 09:06

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 19:18	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 19:18	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 19:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 19:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 19:18	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 19:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 19:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 19:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 19:18	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:18	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 19:18	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 19:18	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 19:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 19:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 19:18	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 19:18	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 19:18	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*10/22/16 19:18*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/22/16 19:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/16 19:18*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 12:22	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:22	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*33 - 138*	*10/18/16 13:39*	*10/20/16 12:22*	*1*
2-Fluorobiphenyl	*82*		*15 - 122*	*10/18/16 13:39*	*10/20/16 12:22*	*1*

Client Sample ID: MW24-ROX-101116-EB

Date Collected: 10/11/16 13:30
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		19 - 130	10/18/16 13:39	10/20/16 12:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 16:35	1
Benzenethiol	ND	*	10	1.7	ug/L		10/18/16 13:39	10/20/16 16:35	1
Benzoic acid	ND		30	7.3	ug/L		10/18/16 13:39	10/20/16 16:35	1
Benzyl alcohol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 16:35	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 16:35	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 16:35	1
Bis(2-ethylhexyl) phthalate	**3.4**	**J B**	10	2.3	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 16:35	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 16:35	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 16:35	1
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 16:35	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Diethyl phthalate	**1.7**	**J**	10	0.70	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 16:35	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 16:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 16:35	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 16:35	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 16:35	1
1,4-Dioxane	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 16:35	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 16:35	1
Hexachloroethane	ND		10	4.2	ug/L		10/18/16 13:39	10/20/16 16:35	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 16:35	1
2-Methylphenol	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 16:35	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 16:35	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 16:35	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 16:35	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 16:35	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 16:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 16:35	1

Client Sample ID: MW24-ROX-101116-EB

Date Collected: 10/11/16 13:30
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 16:35	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 16:35	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 16:35	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 16:35	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 16:35	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 16:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 120*	*10/18/16 13:39*	*10/20/16 16:35*	*1*
2-Fluorophenol	*65*		*10 - 120*	*10/18/16 13:39*	*10/20/16 16:35*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/18/16 13:39*	*10/20/16 16:35*	*1*
Phenol-d5	*58*		*10 - 120*	*10/18/16 13:39*	*10/20/16 16:35*	*1*
Terphenyl-d14	*95*		*53 - 125*	*10/18/16 13:39*	*10/20/16 16:35*	*1*
2,4,6-Tribromophenol	*64*		*15 - 135*	*10/18/16 13:39*	*10/20/16 16:35*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 08:46	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/20/16 10:29*	*10/21/16 08:46*	*1*

Client Sample ID: MW24-ROX-101116

Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 19:44	1
Acrolein	ND		20	10	ug/L			10/22/16 19:44	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 19:44	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 19:44	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 19:44	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 19:44	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 19:44	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 19:44	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 19:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 19:44	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 19:44	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 19:44	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 19:44	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 19:44	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 19:44	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 19:44	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 19:44	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 19:44	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 19:44	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 19:44	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 19:44	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 19:44	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 19:44	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 19:44	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 19:44	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 19:44	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 19:44	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 19:44	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 19:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 19:44	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 19:44	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 19:44	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 19:44	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 19:44	1

Client Sample ID: MW24-ROX-101116

Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 19:44	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 19:44	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 19:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 19:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 19:44	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 19:44	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 19:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 19:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 19:44	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 19:44	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 19:44	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 19:44	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 19:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 19:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 19:44	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 19:44	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 19:44	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/16 19:44*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*10/22/16 19:44*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/22/16 19:44*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 12:45	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 12:45	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
1-Methylnaphthalene	**0.021**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1
2-Methylnaphthalene	**0.029**	**J**	0.20	0.020	ug/L		10/18/16 13:39	10/20/16 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*81*		*33 - 138*	*10/18/16 13:39*	*10/20/16 12:45*	*1*
2-Fluorobiphenyl	*82*		*15 - 122*	*10/18/16 13:39*	*10/20/16 12:45*	*1*

Client Sample ID: MW24-ROX-101116
Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-8
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		19 - 130	10/18/16 13:39	10/20/16 12:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 17:06	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/18/16 13:39	10/20/16 17:06	1
Benzoic acid	ND		30	7.3	ug/L		10/18/16 13:39	10/20/16 17:06	1
Benzyl alcohol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 17:06	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 17:06	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 17:06	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 17:06	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 17:06	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 17:06	1
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 17:06	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Diethyl phthalate	ND		10	0.70	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 17:06	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 17:06	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 17:06	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 17:06	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 17:06	1
1,4-Dioxane	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 17:06	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 17:06	1
Hexachloroethane	ND		10	4.2	ug/L		10/18/16 13:39	10/20/16 17:06	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 17:06	1
2-Methylphenol	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 17:06	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 17:06	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 17:06	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 17:06	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 17:06	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 17:06	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 17:06	1

Client Sample ID: MW24-ROX-101116

Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-8

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 17:06	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 17:06	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 17:06	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 17:06	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 17:06	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 17:06	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/18/16 13:39*	*10/20/16 17:06*	*1*
2-Fluorophenol	*31*		*10 - 120*	*10/18/16 13:39*	*10/20/16 17:06*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/18/16 13:39*	*10/20/16 17:06*	*1*
Phenol-d5	*48*		*10 - 120*	*10/18/16 13:39*	*10/20/16 17:06*	*1*
Terphenyl-d14	*80*		*53 - 125*	*10/18/16 13:39*	*10/20/16 17:06*	*1*
2,4,6-Tribromophenol	*53*		*15 - 135*	*10/18/16 13:39*	*10/20/16 17:06*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:29	10/21/16 09:16	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/20/16 10:29	10/21/16 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*		*51 - 149*	*10/20/16 10:29*	*10/21/16 09:16*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128591-2	TB-ROX-101116-8260	103	108	96
400-128591-3	MW6B-ROX-101116	101	113	93
400-128591-4	MW6A-ROX-101116	100	111	93
400-128591-4 MS	MW6A-ROX-101116	101	98	96
400-128591-4 MSD	MW6A-ROX-101116	106	95	98
400-128591-5	MW12-ROX-101116	98	112	95
400-128591-6	MW16-ROX-101116	98	112	96
400-128591-7	MW24-ROX-101116-EB	99	112	98
400-128591-8	MW24-ROX-101116	103	108	95
LCS 400-327864/1002	Lab Control Sample	100	98	100
MB 400-327864/4	Method Blank	101	107	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128591-3	MW6B-ROX-101116	77	45	75	48	72	78
400-128591-4	MW6A-ROX-101116	79	61	74	45	63	65
400-128591-5	MW12-ROX-101116	75	22	104	44	78	59
400-128591-6	MW16-ROX-101116	79	21	82	57	89	80
400-128591-7	MW24-ROX-101116-EB	67	65	77	58	95	64
400-128591-8	MW24-ROX-101116	77	31	81	48	80	53
LCS 400-327215/2-A	Lab Control Sample	85	65	119	72	89	99
LCS 400-327215/4-A	Lab Control Sample	82	55	75	59	87	60
LCSD 400-327215/3-A	Lab Control Sample Dup	85	60	90	77	93	87
LCSD 400-327215/5-A	Lab Control Sample Dup	80	32	84	57	84	44
MB 400-327215/1-A	Method Blank	67	41	48	51	75	66

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128591-3	MW6B-ROX-101116	72	78	78

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128591-4	MW6A-ROX-101116	65	75	75
400-128591-5	MW12-ROX-101116	72	84	77
400-128591-6	MW16-ROX-101116	81	77	77
400-128591-7	MW24-ROX-101116-EB	91	82	81
400-128591-8	MW24-ROX-101116	81	82	73
LCS 400-327215/2-A	Lab Control Sample	72	79	70
LCSD 400-327215/3-A	Lab Control Sample Dup	82	86	74
MB 400-327215/1-A	Method Blank	72	69	65

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-128591-1	TB-ROX-101116-8011	144
400-128591-3	MW6B-ROX-101116	143
400-128591-4	MW6A-ROX-101116	142
400-128591-5	MW12-ROX-101116	148
400-128591-6	MW16-ROX-101116	130
400-128591-7	MW24-ROX-101116-EB	141
400-128591-8	MW24-ROX-101116	125
400-128764-C-2-B MS	Matrix Spike	120
400-128764-C-2-C MSD	Matrix Spike Duplicate	117
LCS 400-327548/2-A	Lab Control Sample	151 X
MB 400-327548/1-A	Method Blank	177 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101116-8011

Lab Sample ID: 400-128591-1

Date Collected: 10/11/16 00:00
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 05:47	KH1	TAL PEN

Client Sample ID: TB-ROX-101116-8260

Lab Sample ID: 400-128591-2

Date Collected: 10/11/16 00:00
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 17:35	BSW	TAL PEN

Client Sample ID: MW6B-ROX-101116

Lab Sample ID: 400-128591-3

Date Collected: 10/11/16 09:15
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 18:00	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 14:35	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 10:50	VC1	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 06:17	KH1	TAL PEN

Client Sample ID: MW6A-ROX-101116

Lab Sample ID: 400-128591-4

Date Collected: 10/11/16 10:00
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 14:59	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 15:05	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 11:13	VC1	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 06:46	KH1	TAL PEN

Client Sample ID: MW12-ROX-101116

Lab Sample ID: 400-128591-5

Date Collected: 10/11/16 11:00
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 18:26	BSW	TAL PEN

Client Sample ID: MW12-ROX-101116

Lab Sample ID: 400-128591-5
Matrix: Water

Date Collected: 10/11/16 11:00
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 15:35	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 11:36	VC1	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 07:16	KH1	TAL PEN

Client Sample ID: MW16-ROX-101116

Lab Sample ID: 400-128591-6
Matrix: Water

Date Collected: 10/11/16 12:10
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 18:52	BSW	TAL PEN
Total/NA	Prep	3520C			1015 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 16:05	KJA	TAL PEN
Total/NA	Prep	3520C			1015 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 11:59	VC1	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 07:46	KH1	TAL PEN

Client Sample ID: MW24-ROX-101116-EB

Lab Sample ID: 400-128591-7
Matrix: Water

Date Collected: 10/11/16 13:30
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 19:18	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 16:35	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 12:22	VC1	TAL PEN
Total/NA	Prep	8011			35.2 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 08:46	KH1	TAL PEN

Client Sample ID: MW24-ROX-101116

Lab Sample ID: 400-128591-8
Matrix: Water

Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 19:44	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 17:06	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 12:45	VC1	TAL PEN

Client Sample ID: MW24-ROX-101116

Date Collected: 10/11/16 14:15
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.9 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 09:16	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327215/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 12:04	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327510	10/20/16 09:41	VC1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327548/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:19	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327864/4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 14:33	BSW	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327215/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 12:34	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327510	10/20/16 10:04	VC1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327215/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 13:34	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327548/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:48	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327864/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 12:39	BSW	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-327215/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 13:04	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327510	10/20/16 10:27	VC1	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-327215/5-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327215	10/18/16 13:39	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327522	10/20/16 14:05	KJA	TAL PEN

Client Sample ID: MW6A-ROX-101116
Lab Sample ID: 400-128591-4 MS
Date Collected: 10/11/16 10:00
Matrix: Water
Date Received: 10/12/16 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 15:51	BSW	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: MW6A-ROX-101116

Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Lab Sample ID: 400-128591-4 MSD

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 16:17	BSW	TAL PEN

Client Sample ID: Matrix Spike

Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-C-2-B MS

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.1 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 13:44	KH1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-C-2-C MSD

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 14:13	KH1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-2	TB-ROX-101116-8260	Total/NA	Water	8260B	
400-128591-3	MW6B-ROX-101116	Total/NA	Water	8260B	
400-128591-4	MW6A-ROX-101116	Total/NA	Water	8260B	
400-128591-5	MW12-ROX-101116	Total/NA	Water	8260B	
400-128591-6	MW16-ROX-101116	Total/NA	Water	8260B	
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	8260B	
400-128591-8	MW24-ROX-101116	Total/NA	Water	8260B	
MB 400-327864/4	Method Blank	Total/NA	Water	8260B	
LCS 400-327864/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128591-4 MS	MW6A-ROX-101116	Total/NA	Water	8260B	
400-128591-4 MSD	MW6A-ROX-101116	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 327215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-3	MW6B-ROX-101116	Total/NA	Water	3520C	
400-128591-4	MW6A-ROX-101116	Total/NA	Water	3520C	
400-128591-5	MW12-ROX-101116	Total/NA	Water	3520C	
400-128591-6	MW16-ROX-101116	Total/NA	Water	3520C	
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	3520C	
400-128591-8	MW24-ROX-101116	Total/NA	Water	3520C	
MB 400-327215/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-327215/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-327215/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-327215/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-327215/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 327510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-3	MW6B-ROX-101116	Total/NA	Water	8270D LL	327215
400-128591-4	MW6A-ROX-101116	Total/NA	Water	8270D LL	327215
400-128591-5	MW12-ROX-101116	Total/NA	Water	8270D LL	327215
400-128591-6	MW16-ROX-101116	Total/NA	Water	8270D LL	327215
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	8270D LL	327215
400-128591-8	MW24-ROX-101116	Total/NA	Water	8270D LL	327215
MB 400-327215/1-A	Method Blank	Total/NA	Water	8270D LL	327215
LCS 400-327215/2-A	Lab Control Sample	Total/NA	Water	8270D LL	327215
LCSD 400-327215/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	327215

Analysis Batch: 327522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-3	MW6B-ROX-101116	Total/NA	Water	8270D	327215
400-128591-4	MW6A-ROX-101116	Total/NA	Water	8270D	327215
400-128591-5	MW12-ROX-101116	Total/NA	Water	8270D	327215
400-128591-6	MW16-ROX-101116	Total/NA	Water	8270D	327215
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	8270D	327215
400-128591-8	MW24-ROX-101116	Total/NA	Water	8270D	327215
MB 400-327215/1-A	Method Blank	Total/NA	Water	8270D	327215
LCS 400-327215/2-A	Lab Control Sample	Total/NA	Water	8270D	327215

GC/MS Semi VOA (Continued)

Analysis Batch: 327522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-327215/4-A	Lab Control Sample	Total/NA	Water	8270D	327215
LCSD 400-327215/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327215
LCSD 400-327215/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	327215

GC Semi VOA

Prep Batch: 327548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-1	TB-ROX-101116-8011	Total/NA	Water	8011	
400-128591-3	MW6B-ROX-101116	Total/NA	Water	8011	
400-128591-4	MW6A-ROX-101116	Total/NA	Water	8011	
400-128591-5	MW12-ROX-101116	Total/NA	Water	8011	
400-128591-6	MW16-ROX-101116	Total/NA	Water	8011	
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	8011	
400-128591-8	MW24-ROX-101116	Total/NA	Water	8011	
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	
400-128764-C-2-B MS	Matrix Spike	Total/NA	Water	8011	
400-128764-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	

Analysis Batch: 327718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128591-1	TB-ROX-101116-8011	Total/NA	Water	8011	327548
400-128591-3	MW6B-ROX-101116	Total/NA	Water	8011	327548
400-128591-4	MW6A-ROX-101116	Total/NA	Water	8011	327548
400-128591-5	MW12-ROX-101116	Total/NA	Water	8011	327548
400-128591-6	MW16-ROX-101116	Total/NA	Water	8011	327548
400-128591-7	MW24-ROX-101116-EB	Total/NA	Water	8011	327548
400-128591-8	MW24-ROX-101116	Total/NA	Water	8011	327548
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	327548
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	327548
400-128764-C-2-B MS	Matrix Spike	Total/NA	Water	8011	327548
400-128764-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	327548

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327864/4
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 14:33	1
Acrolein	ND		20	10	ug/L			10/22/16 14:33	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 14:33	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 14:33	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 14:33	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 14:33	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 14:33	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 14:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 14:33	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 14:33	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 14:33	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 14:33	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 14:33	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 14:33	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 14:33	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 14:33	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 14:33	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 14:33	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 14:33	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 14:33	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 14:33	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 14:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 14:33	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 14:33	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 14:33	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 14:33	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 14:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 14:33	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 14:33	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 14:33	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327864/4
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 14:33	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 14:33	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 14:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 14:33	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 14:33	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 14:33	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 14:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 14:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 14:33	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 14:33	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/22/16 14:33*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/22/16 14:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/16 14:33*	*1*

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/L		109	43 - 160
Acrolein	500	507		ug/L		101	38 - 160
Acrylonitrile	500	489		ug/L		98	64 - 142
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromobenzene	50.0	52.4		ug/L		105	70 - 132
Bromochloromethane	50.0	52.3		ug/L		105	70 - 130
Bromodichloromethane	50.0	51.8		ug/L		104	67 - 133
Bromoform	50.0	50.9		ug/L		102	57 - 140
Bromomethane	50.0	53.0		ug/L		106	10 - 160
2-Butanone (MEK)	200	206		ug/L		103	61 - 145
Carbon disulfide	50.0	49.4		ug/L		99	61 - 137
Carbon tetrachloride	50.0	54.1		ug/L		108	61 - 137
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Dibromochloromethane	50.0	50.9		ug/L		102	67 - 135
Chloroethane	50.0	51.3		ug/L		103	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	55.5		ug/L		111	10 - 160
Chloroform	50.0	52.1		ug/L		104	69 - 130
1-Chlorohexane	50.0	49.0		ug/L		98	69 - 130
Chloromethane	50.0	48.8		ug/L		98	58 - 137
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	67 - 130
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	47.1		ug/L		94	41 - 146
1,1-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	48.3		ug/L		97	69 - 130
1,1-Dichloroethene	50.0	48.9		ug/L		98	63 - 134
1,2-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	49.9		ug/L		100	52 - 135
1,1-Dichloropropene	50.0	52.4		ug/L		105	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Ethyl methacrylate	50.0	48.2		ug/L		96	68 - 130
Hexachlorobutadiene	50.0	47.0		ug/L		94	53 - 140
2-Hexanone	200	194		ug/L		97	65 - 137
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
Methylene bromide	50.0	49.1		ug/L		98	70 - 130
Methylene Chloride	50.0	51.0		ug/L		102	66 - 135
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	69 - 138
Methyl tert-butyl ether	50.0	50.2		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	70 - 130
Naphthalene	50.0	46.3		ug/L		93	47 - 149
n-Butylbenzene	50.0	47.2		ug/L		94	67 - 130
N-Propylbenzene	50.0	50.6		ug/L		101	70 - 130
o-Chlorotoluene	50.0	45.6		ug/L		91	70 - 130
o-Xylene	50.0	48.3		ug/L		97	70 - 130
p-Chlorotoluene	50.0	50.0		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	47.7		ug/L		95	65 - 130
sec-Butylbenzene	50.0	47.2		ug/L		94	66 - 130
Styrene	50.0	49.1		ug/L		98	70 - 130
tert-Butylbenzene	50.0	46.8		ug/L		94	64 - 139
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	70 - 131
Tetrachloroethene	50.0	48.5		ug/L		97	65 - 130
Toluene	50.0	50.2		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.5		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	60 - 138
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	60 - 140
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	68 - 130
1,1,2-Trichloroethane	50.0	55.2		ug/L		110	70 - 130
Trichloroethene	50.0	52.9		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	52.5		ug/L		105	65 - 138
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	46.5		ug/L		93	69 - 130
Vinyl acetate	100	110		ug/L		110	26 - 160
Vinyl chloride	50.0	50.1		ug/L		100	59 - 136
Xylenes, Total	100	97.4		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 400-128591-4 MS
Matrix: Water
Analysis Batch: 327864

Client Sample ID: MW6A-ROX-101116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	167		ug/L		83	43 - 160
Acrolein	ND		500	541		ug/L		108	38 - 160
Acrylonitrile	ND		500	521		ug/L		104	62 - 149
Benzene	ND		50.0	54.3		ug/L		109	56 - 142
Bromobenzene	ND		50.0	50.6		ug/L		101	59 - 136
Bromochloromethane	ND		50.0	54.8		ug/L		110	64 - 140
Bromodichloromethane	ND		50.0	53.9		ug/L		108	59 - 143
Bromoform	ND		50.0	50.5		ug/L		101	50 - 140
Bromomethane	ND		50.0	58.2		ug/L		116	10 - 160
2-Butanone (MEK)	ND		200	202		ug/L		101	55 - 150
Carbon disulfide	ND		50.0	51.6		ug/L		103	48 - 152
Carbon tetrachloride	ND		50.0	53.2		ug/L		106	55 - 145
Chlorobenzene	ND		50.0	52.0		ug/L		104	64 - 130
Dibromochloromethane	ND		50.0	54.3		ug/L		109	56 - 143
Chloroethane	ND		50.0	56.9		ug/L		114	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	52.2		ug/L		104	60 - 141
1-Chlorohexane	ND		50.0	50.1		ug/L		100	56 - 136
Chloromethane	ND		50.0	51.1		ug/L		102	49 - 148
cis-1,2-Dichloroethene	ND		50.0	51.6		ug/L		103	59 - 143
cis-1,3-Dichloropropene	ND		50.0	55.6		ug/L		111	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.9		ug/L		94	52 - 137
1,3-Dichlorobenzene	ND		50.0	48.9		ug/L		98	54 - 135
1,4-Dichlorobenzene	ND		50.0	48.9		ug/L		98	53 - 135
Dichlorodifluoromethane	ND		50.0	49.2		ug/L		98	16 - 160
1,1-Dichloroethane	ND		50.0	52.9		ug/L		106	61 - 144
1,2-Dichloroethane	ND		50.0	51.9		ug/L		104	60 - 141
1,1-Dichloroethene	ND		50.0	49.8		ug/L		100	54 - 147
1,2-Dichloropropane	ND		50.0	53.8		ug/L		108	66 - 137
1,3-Dichloropropane	ND		50.0	54.7		ug/L		109	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-4 MS
Matrix: Water
Analysis Batch: 327864

Client Sample ID: MW6A-ROX-101116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	50.0		ug/L		100	42 - 144
1,1-Dichloropropene	ND		50.0	54.6		ug/L		109	65 - 136
Ethylbenzene	ND		50.0	50.4		ug/L		101	58 - 131
Ethyl methacrylate	ND		50.0	52.4		ug/L		105	64 - 130
Hexachlorobutadiene	ND		50.0	46.3		ug/L		93	31 - 149
2-Hexanone	ND		200	194		ug/L		97	65 - 140
Isopropylbenzene	ND		50.0	47.8		ug/L		96	56 - 133
Methylene bromide	ND		50.0	53.8		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	52.5		ug/L		105	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	213		ug/L		106	63 - 146
Methyl tert-butyl ether	2.7		50.0	55.1		ug/L		105	59 - 137
m-Xylene & p-Xylene	ND		50.0	49.8		ug/L		100	57 - 130
Naphthalene	ND		50.0	48.4		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	45.4		ug/L		91	41 - 142
N-Propylbenzene	ND		50.0	50.0		ug/L		100	51 - 138
o-Chlorotoluene	ND		50.0	46.9		ug/L		94	53 - 134
o-Xylene	ND		50.0	50.4		ug/L		101	61 - 130
p-Chlorotoluene	ND		50.0	50.3		ug/L		101	54 - 133
p-Isopropyltoluene	ND		50.0	45.9		ug/L		92	48 - 139
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138
Styrene	ND		50.0	50.5		ug/L		101	58 - 131
tert-Butylbenzene	ND		50.0	46.4		ug/L		93	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	51.9		ug/L		104	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	51.7		ug/L		103	66 - 135
Tetrachloroethene	ND		50.0	48.7		ug/L		97	52 - 133
Toluene	ND		50.0	52.7		ug/L		105	65 - 130
trans-1,2-Dichloroethene	ND		50.0	54.2		ug/L		108	61 - 143
trans-1,3-Dichloropropene	ND		50.0	53.4		ug/L		107	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	44.4		ug/L		89	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	43.9		ug/L		88	39 - 148
1,1,1-Trichloroethane	ND		50.0	50.6		ug/L		101	57 - 142
1,1,2-Trichloroethane	ND		50.0	55.6		ug/L		111	66 - 131
Trichloroethene	ND		50.0	53.2		ug/L		106	64 - 136
Trichlorofluoromethane	ND		50.0	53.6		ug/L		107	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.4		ug/L		97	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.5		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	45.4		ug/L		91	52 - 135
Vinyl acetate	ND		100	111		ug/L		111	26 - 160
Vinyl chloride	ND		50.0	52.1		ug/L		104	46 - 152
Xylenes, Total	ND		100	100		ug/L		100	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-4 MSD
Matrix: Water
Analysis Batch: 327864

Client Sample ID: MW6A-ROX-101116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	161		ug/L		81	43 - 160	3	30
Acrolein	ND		500	522		ug/L		104	38 - 160	4	31
Acrylonitrile	ND		500	498		ug/L		100	62 - 149	4	30
Benzene	ND		50.0	52.3		ug/L		105	56 - 142	4	30
Bromobenzene	ND		50.0	51.0		ug/L		102	59 - 136	1	30
Bromochloromethane	ND		50.0	55.8		ug/L		112	64 - 140	2	30
Bromodichloromethane	ND		50.0	50.9		ug/L		102	59 - 143	6	30
Bromoform	ND		50.0	47.9		ug/L		96	50 - 140	5	30
Bromomethane	ND		50.0	53.1		ug/L		106	10 - 160	9	50
2-Butanone (MEK)	ND		200	185		ug/L		93	55 - 150	9	30
Carbon disulfide	ND		50.0	50.2		ug/L		100	48 - 152	3	30
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	55 - 145	4	30
Chlorobenzene	ND		50.0	51.9		ug/L		104	64 - 130	0	30
Dibromochloromethane	ND		50.0	53.2		ug/L		106	56 - 143	2	30
Chloroethane	ND		50.0	54.1		ug/L		108	50 - 151	5	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	51.1		ug/L		102	60 - 141	2	30
1-Chlorohexane	ND		50.0	47.0		ug/L		94	56 - 136	6	30
Chloromethane	ND		50.0	46.8		ug/L		94	49 - 148	9	31
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	52.4		ug/L		105	57 - 140	6	30
1,2-Dichlorobenzene	ND		50.0	45.0		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	47.8		ug/L		96	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	48.5		ug/L		97	53 - 135	1	30
Dichlorodifluoromethane	ND		50.0	46.5		ug/L		93	16 - 160	6	31
1,1-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	49.5		ug/L		99	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	48.6		ug/L		97	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	53.0		ug/L		106	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	48.6		ug/L		97	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	53.1		ug/L		106	65 - 136	3	30
Ethylbenzene	ND		50.0	49.0		ug/L		98	58 - 131	3	30
Ethyl methacrylate	ND		50.0	49.5		ug/L		99	64 - 130	6	30
Hexachlorobutadiene	ND		50.0	48.7		ug/L		97	31 - 149	5	36
2-Hexanone	ND		200	191		ug/L		96	65 - 140	2	30
Isopropylbenzene	ND		50.0	46.8		ug/L		94	56 - 133	2	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	50.1		ug/L		100	60 - 146	5	32
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		102	63 - 146	4	30
Methyl tert-butyl ether	2.7		50.0	52.3		ug/L		99	59 - 137	5	30
m-Xylene & p-Xylene	ND		50.0	48.8		ug/L		98	57 - 130	2	30
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160	0	30
n-Butylbenzene	ND		50.0	45.3		ug/L		91	41 - 142	0	31
N-Propylbenzene	ND		50.0	49.6		ug/L		99	51 - 138	1	30
o-Chlorotoluene	ND		50.0	44.7		ug/L		89	53 - 134	5	30
o-Xylene	ND		50.0	48.5		ug/L		97	61 - 130	4	30
p-Chlorotoluene	ND		50.0	49.6		ug/L		99	54 - 133	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-4 MSD
Matrix: Water
Analysis Batch: 327864

Client Sample ID: MW6A-ROX-101116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	46.6		ug/L		93	48 - 139	1	30
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138	0	30
Styrene	ND		50.0	48.7		ug/L		97	58 - 131	4	30
tert-Butylbenzene	ND		50.0	45.0		ug/L		90	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	50.5		ug/L		101	59 - 137	3	30
1,1,2,2-Tetrachloroethane	ND		50.0	48.7		ug/L		97	66 - 135	6	30
Tetrachloroethene	ND		50.0	45.4		ug/L		91	52 - 133	7	30
Toluene	ND		50.0	51.1		ug/L		102	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	52.0		ug/L		104	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	51.6		ug/L		103	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	46.3		ug/L		93	43 - 145	4	30
1,2,4-Trichlorobenzene	ND		50.0	44.4		ug/L		89	39 - 148	1	30
1,1,1-Trichloroethane	ND		50.0	50.1		ug/L		100	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	55.8		ug/L		112	66 - 131	0	30
Trichloroethene	ND		50.0	51.8		ug/L		104	64 - 136	3	30
Trichlorofluoromethane	ND		50.0	50.4		ug/L		101	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139	0	30
1,3,5-Trimethylbenzene	ND		50.0	46.9		ug/L		94	52 - 135	3	30
Vinyl acetate	ND		100	99.6		ug/L		100	26 - 160	11	33
Vinyl chloride	ND		50.0	49.2		ug/L		98	46 - 152	6	30
Xylenes, Total	ND		100	97.3		ug/L		97	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327215/1-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 12:04	1
Benzenethiol	ND		10	1.7	ug/L		10/18/16 13:39	10/20/16 12:04	1
Benzoic acid	ND		30	7.3	ug/L		10/18/16 13:39	10/20/16 12:04	1
Benzyl alcohol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 12:04	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/18/16 13:39	10/20/16 12:04	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/18/16 13:39	10/20/16 12:04	1
Bis(2-ethylhexyl) phthalate	7.66	J	10	2.3	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/18/16 13:39	10/20/16 12:04	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Chloroaniline	ND		10	3.4	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/18/16 13:39	10/20/16 12:04	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 12:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327215/1-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Dibenzofuran	ND		10	0.52	ug/L		10/18/16 13:39	10/20/16 12:04	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Diethyl phthalate	ND		10	0.70	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 12:04	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/18/16 13:39	10/20/16 12:04	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/18/16 13:39	10/20/16 12:04	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/18/16 13:39	10/20/16 12:04	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/18/16 13:39	10/20/16 12:04	1
1,4-Dioxane	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/18/16 13:39	10/20/16 12:04	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/18/16 13:39	10/20/16 12:04	1
Hexachloroethane	ND		10	4.2	ug/L		10/18/16 13:39	10/20/16 12:04	1
Indene	ND		10	1.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
Isophorone	ND		10	0.57	ug/L		10/18/16 13:39	10/20/16 12:04	1
2-Methylphenol	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 12:04	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
2-Nitroaniline	ND		10	2.2	ug/L		10/18/16 13:39	10/20/16 12:04	1
3-Nitroaniline	ND		10	1.8	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Nitroaniline	ND		10	2.5	ug/L		10/18/16 13:39	10/20/16 12:04	1
Nitrobenzene	ND		10	0.55	ug/L		10/18/16 13:39	10/20/16 12:04	1
2-Nitrophenol	ND		10	0.65	ug/L		10/18/16 13:39	10/20/16 12:04	1
4-Nitrophenol	ND		10	2.1	ug/L		10/18/16 13:39	10/20/16 12:04	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 12:04	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/18/16 13:39	10/20/16 12:04	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/18/16 13:39	10/20/16 12:04	1
Pentachlorophenol	ND		20	1.8	ug/L		10/18/16 13:39	10/20/16 12:04	1
Phenol	ND		10	2.6	ug/L		10/18/16 13:39	10/20/16 12:04	1
Pyridine	ND		10	3.2	ug/L		10/18/16 13:39	10/20/16 12:04	1
Quinoline	ND		10	6.0	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/18/16 13:39	10/20/16 12:04	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/18/16 13:39	10/20/16 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 120*	*10/18/16 13:39*	*10/20/16 12:04*	*1*
2-Fluorophenol	*41*		*10 - 120*	*10/18/16 13:39*	*10/20/16 12:04*	*1*
Nitrobenzene-d5	*48*		*27 - 120*	*10/18/16 13:39*	*10/20/16 12:04*	*1*
Phenol-d5	*51*		*10 - 120*	*10/18/16 13:39*	*10/20/16 12:04*	*1*
Terphenyl-d14	*75*		*53 - 125*	*10/18/16 13:39*	*10/20/16 12:04*	*1*
2,4,6-Tribromophenol	*66*		*15 - 135*	*10/18/16 13:39*	*10/20/16 12:04*	*1*

Lab Sample ID: LCS 400-327215/2-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	23.5		ug/L		78	10 - 145
Benzoic acid	126	14.4	J	ug/L		11	10 - 120
Benzyl alcohol	30.0	18.4		ug/L		61	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.8		ug/L		86	54 - 123
Bis(2-chloroethyl)ether	30.0	28.3		ug/L		94	47 - 120
bis (2-chloroisopropyl) ether	30.0	27.3		ug/L		91	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	28.1		ug/L		94	62 - 140
4-Bromophenyl phenyl ether	30.0	27.0		ug/L		90	62 - 132
Butyl benzyl phthalate	30.0	26.8		ug/L		89	51 - 150
4-Chloroaniline	30.0	22.8		ug/L		76	32 - 128
4-Chloro-3-methylphenol	30.0	28.0		ug/L		93	47 - 135
2-Chloronaphthalene	30.0	26.9		ug/L		90	24 - 150
2-Chlorophenol	30.0	23.9		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.4		ug/L		98	61 - 133
Dibenz[a,h]acridine	30.0	30.8		ug/L		103	60 - 131
Dibenzofuran	30.0	28.1		ug/L		94	62 - 124
3,3'-Dichlorobenzidine	40.0	36.5		ug/L		91	16 - 167
2,4-Dichlorophenol	30.0	27.7		ug/L		92	52 - 125
Diethyl phthalate	30.0	27.7		ug/L		92	55 - 140
2,4-Dimethylphenol	30.0	25.9		ug/L		86	52 - 121
Dimethyl phthalate	30.0	27.5		ug/L		92	50 - 133
Di-n-butyl phthalate	30.0	29.5		ug/L		98	59 - 144
4,6-Dinitro-ortho-cresol	60.0	52.8		ug/L		88	46 - 136
2,4-Dinitrophenol	101	67.0		ug/L		66	22 - 146
2,4-Dinitrotoluene	30.0	28.9		ug/L		96	54 - 141
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130
Di-n-octyl phthalate	30.0	28.2		ug/L		94	55 - 140
1,4-Dioxane	30.0	13.2		ug/L		44	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.0		ug/L		77	55 - 139
Hexachlorobenzene	30.0	29.3		ug/L		98	60 - 138
Hexachlorocyclopentadiene	30.0	17.2	J	ug/L		57	1 - 139
Hexachloroethane	30.0	25.8		ug/L		86	46 - 121
Indene	30.0	28.6		ug/L		95	17 - 141
Isophorone	30.0	24.6		ug/L		82	57 - 122
2-Methylphenol	30.0	29.1		ug/L		97	38 - 121
3 & 4 Methylphenol	30.0	23.8		ug/L		79	43 - 126
2-Nitroaniline	30.0	28.2		ug/L		94	52 - 135
3-Nitroaniline	30.0	24.7		ug/L		82	51 - 128
4-Nitroaniline	30.0	26.0		ug/L		87	38 - 141
Nitrobenzene	30.0	38.1		ug/L		127	52 - 128
2-Nitrophenol	30.0	29.0		ug/L		97	47 - 129
4-Nitrophenol	60.0	48.0		ug/L		80	34 - 137
N-Nitrosodimethylamine	30.0	28.5		ug/L		95	21 - 134
N-Nitrosodi-n-propylamine	30.0	27.3		ug/L		91	41 - 143
N-Nitrosodiphenylamine	29.8	24.7		ug/L		83	10 - 185
Pentachlorophenol	60.0	42.9		ug/L		72	38 - 138
Phenol	30.0	24.5		ug/L		82	37 - 120
Pyridine	30.0	19.5		ug/L		65	10 - 127
Quinoline	30.0	28.4		ug/L		95	10 - 164

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327215/2-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	28.1		ug/L		94	53 - 130
2,4,6-Trichlorophenol	30.0	26.4		ug/L		88	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*34 - 120*
2-Fluorophenol	*65*		*10 - 120*
Nitrobenzene-d5	*119*		*27 - 120*
Phenol-d5	*72*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*99*		*15 - 135*

Lab Sample ID: LCS 400-327215/4-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		3	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*55*		*10 - 120*
Nitrobenzene-d5	*75*		*27 - 120*
Phenol-d5	*59*		*10 - 120*
Terphenyl-d14	*87*		*53 - 125*
2,4,6-Tribromophenol	*60*		*15 - 135*

Lab Sample ID: LCSD 400-327215/3-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	24.9		ug/L		83	10 - 145	6	30
Benzoic acid	126	17.1	J	ug/L		14	10 - 120	17	30
Benzyl alcohol	30.0	18.5		ug/L		62	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	29.5		ug/L		98	54 - 123	13	30
Bis(2-chloroethyl)ether	30.0	28.7		ug/L		96	47 - 120	1	30
bis (2-chloroisopropyl) ether	30.0	27.1		ug/L		90	20 - 142	1	30
Bis(2-ethylhexyl) phthalate	30.0	34.2		ug/L		114	62 - 140	19	30
4-Bromophenyl phenyl ether	30.0	26.6		ug/L		89	62 - 132	1	30
Butyl benzyl phthalate	30.0	31.7		ug/L		106	51 - 150	17	30
4-Chloroaniline	30.0	24.5		ug/L		82	32 - 128	7	30
4-Chloro-3-methylphenol	30.0	30.6		ug/L		102	47 - 135	9	30
2-Chloronaphthalene	30.0	28.0		ug/L		93	24 - 150	4	30
2-Chlorophenol	30.0	23.5		ug/L		78	45 - 120	1	30
4-Chlorophenyl phenyl ether	30.0	28.5		ug/L		95	61 - 133	3	30
Dibenz[a,h]acridine	30.0	33.3		ug/L		111	60 - 131	8	30
Dibenzofuran	30.0	28.4		ug/L		95	62 - 124	1	30
3,3'-Dichlorobenzidine	40.0	36.1		ug/L		90	16 - 167	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327215/3-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	30.0	27.0		ug/L		90	52 - 125	3	30
Diethyl phthalate	30.0	29.5		ug/L		98	55 - 140	6	30
2,4-Dimethylphenol	30.0	28.4		ug/L		95	52 - 121	9	30
Dimethyl phthalate	30.0	28.6		ug/L		95	50 - 133	4	30
Di-n-butyl phthalate	30.0	33.0		ug/L		110	59 - 144	11	30
4,6-Dinitro-ortho-cresol	60.0	57.0		ug/L		95	46 - 136	8	30
2,4-Dinitrophenol	101	77.0		ug/L		76	22 - 146	14	30
2,4-Dinitrotoluene	30.0	29.7		ug/L		99	54 - 141	3	30
2,6-Dinitrotoluene	30.0	28.4		ug/L		95	61 - 130	2	30
Di-n-octyl phthalate	30.0	31.6		ug/L		105	55 - 140	12	30
1,4-Dioxane	30.0	12.9		ug/L		43	10 - 130	3	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	30.4		ug/L		101	55 - 139	28	30
Hexachlorobenzene	30.0	28.4		ug/L		95	60 - 138	3	30
Hexachlorocyclopentadiene	30.0	18.4	J	ug/L		61	1 - 139	7	30
Hexachloroethane	30.0	26.6		ug/L		89	46 - 121	3	30
Indene	30.0	26.6		ug/L		89	17 - 141	7	30
Isophorone	30.0	28.4		ug/L		95	57 - 122	14	30
2-Methylphenol	30.0	30.3		ug/L		101	38 - 121	4	30
3 & 4 Methylphenol	30.0	25.3		ug/L		84	43 - 126	6	30
2-Nitroaniline	30.0	36.1		ug/L		120	52 - 135	24	30
3-Nitroaniline	30.0	30.3		ug/L		101	51 - 128	20	30
4-Nitroaniline	30.0	31.8		ug/L		106	38 - 141	20	30
Nitrobenzene	30.0	28.7		ug/L		96	52 - 128	28	30
2-Nitrophenol	30.0	30.3		ug/L		101	47 - 129	4	30
4-Nitrophenol	60.0	63.5		ug/L		106	34 - 137	28	30
N-Nitrosodimethylamine	30.0	28.2		ug/L		94	21 - 134	1	30
N-Nitrosodi-n-propylamine	30.0	26.9		ug/L		90	41 - 143	1	30
N-Nitrosodiphenylamine	29.8	26.6		ug/L		89	10 - 185	7	30
Pentachlorophenol	60.0	42.9		ug/L		71	38 - 138	0	30
Phenol	30.0	26.3		ug/L		88	37 - 120	7	30
Pyridine	30.0	20.0		ug/L		67	10 - 127	2	30
Quinoline	30.0	32.6		ug/L		109	10 - 164	14	30
2,4,5-Trichlorophenol	30.0	28.3		ug/L		94	53 - 130	1	30
2,4,6-Trichlorophenol	30.0	26.9		ug/L		90	52 - 131	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*34 - 120*
2-Fluorophenol	*60*		*10 - 120*
Nitrobenzene-d5	*90*		*27 - 120*
Phenol-d5	*77*		*10 - 120*
Terphenyl-d14	*93*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327215/5-A
Matrix: Water
Analysis Batch: 327522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		1	20 - 150	88	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*34 - 120*
2-Fluorophenol	*32*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*
Phenol-d5	*57*		*10 - 120*
Terphenyl-d14	*84*		*53 - 125*
2,4,6-Tribromophenol	*44*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-327215/1-A
Matrix: Water
Analysis Batch: 327510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
Anthracene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Chrysene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Fluoranthene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
Fluorene	ND		0.20	0.021	ug/L		10/18/16 13:39	10/20/16 09:41	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/18/16 13:39	10/20/16 09:41	1
Phenanthrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
Pyrene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/18/16 13:39	10/20/16 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*33 - 138*	*10/18/16 13:39*	*10/20/16 09:41*	*1*
2-Fluorobiphenyl	*69*		*15 - 122*	*10/18/16 13:39*	*10/20/16 09:41*	*1*
Nitrobenzene-d5	*65*		*19 - 130*	*10/18/16 13:39*	*10/20/16 09:41*	*1*

Lab Sample ID: LCS 400-327215/2-A
Matrix: Water
Analysis Batch: 327510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	26.5		ug/L		88	41 - 120
Acenaphthylene	30.0	26.2		ug/L		87	44 - 120

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-327215/2-A
Matrix: Water
Analysis Batch: 327510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	30.0	26.0		ug/L		87	49 - 120
Benzo[a]anthracene	30.0	25.5		ug/L		85	61 - 135
Benzo[a]pyrene	30.0	25.9		ug/L		86	52 - 120
Benzo[b]fluoranthene	30.0	25.1		ug/L		84	53 - 134
Benzo[g,h,i]perylene	30.0	24.1		ug/L		80	47 - 133
Benzo[k]fluoranthene	30.0	26.4		ug/L		88	57 - 134
Chrysene	30.0	25.5		ug/L		85	55 - 122
Dibenz(a,h)anthracene	30.0	25.5		ug/L		85	48 - 146
Fluoranthene	30.0	25.2		ug/L		84	54 - 128
Fluorene	30.0	26.0		ug/L		87	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.6		ug/L		82	43 - 142
Phenanthrene	30.0	26.2		ug/L		87	48 - 120
Pyrene	30.0	22.0		ug/L		73	48 - 132
1-Methylnaphthalene	30.0	21.9		ug/L		73	41 - 120
2-Methylnaphthalene	30.0	21.5		ug/L		72	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*72*		*33 - 138*
2-Fluorobiphenyl	*79*		*15 - 122*
Nitrobenzene-d5	*70*		*19 - 130*

Lab Sample ID: LCSD 400-327215/3-A
Matrix: Water
Analysis Batch: 327510

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	29.7		ug/L		99	41 - 120	11	56
Acenaphthylene	30.0	27.6		ug/L		92	44 - 120	5	56
Anthracene	30.0	29.4		ug/L		98	49 - 120	12	51
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135	8	49
Benzo[a]pyrene	30.0	28.3		ug/L		94	52 - 120	9	50
Benzo[b]fluoranthene	30.0	29.8		ug/L		99	53 - 134	17	54
Benzo[g,h,i]perylene	30.0	27.7		ug/L		92	47 - 133	14	50
Benzo[k]fluoranthene	30.0	28.2		ug/L		94	57 - 134	6	52
Chrysene	30.0	27.6		ug/L		92	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	29.3		ug/L		98	48 - 146	14	50
Fluoranthene	30.0	32.9		ug/L		110	54 - 128	27	52
Fluorene	30.0	30.6		ug/L		102	45 - 125	16	56
Indeno[1,2,3-cd]pyrene	30.0	28.4		ug/L		95	43 - 142	14	51
Phenanthrene	30.0	29.0		ug/L		97	48 - 120	10	56
Pyrene	30.0	25.6		ug/L		85	48 - 132	15	52
1-Methylnaphthalene	30.0	23.4		ug/L		78	41 - 120	7	55
2-Methylnaphthalene	30.0	23.1		ug/L		77	32 - 124	7	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*82*		*33 - 138*
2-Fluorobiphenyl	*86*		*15 - 122*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-327215/3-A
Matrix: Water
Analysis Batch: 327510

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327215

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*74*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327548/1-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 03:19	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*177*	*X*	*51 - 149*	*10/20/16 10:29*	*10/21/16 03:19*	*1*

Lab Sample ID: LCS 400-327548/2-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.115		ug/L		115	60 - 140
1,2-Dibromoethane	0.100	0.124		ug/L		124	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*151*	*X*	*51 - 149*

Lab Sample ID: 400-128764-C-2-B MS
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0980		ug/L		95	65 - 135
1,2-Dibromoethane	ND		0.103	0.108		ug/L		105	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*120*		*51 - 149*

Lab Sample ID: 400-128764-C-2-C MSD
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.101	0.0923		ug/L		91	65 - 135	6	20
1,2-Dibromoethane	ND		0.101	0.0941		ug/L		93	65 - 135	13	20

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-128764-C-2-C MSD
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327548

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	117		51 - 149

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (_____) Lab Vendor # 1364589 (TestAmerica)

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES_____

Print Bill To Contact Name: Bob Billman
PO #: 60477387 - 1.03.004 / 1.03.0044
PlaNet Site or Project ID: 25278
GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 11 Oct. 2016
PAGE: 1 of 1

SAMPLING COMPANY: AECOM
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
AECOM Other ID:
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): J. CLARK / D. HAXEL
LAB USE ONLY
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT
DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) __EDD_____
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044 | NON-UNIT COST 60477387 - 1.03.004

400-128591 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101116-8011	10/11/16	0000	WATER	2					2	X			
	TB-ROX-101116-8260		0000		2					2			X	
	MW6B-ROX-101116		0915		4			2		6	X	X	X	X
	MW6A-ROX-101116		1000		4			2		6	X	X	X	X
	MW12-ROX-101116		1100		4			2		6	X	X	X	X
	MW16-ROX-101116		1210		4			2		6	X	X	X	X
	MW24-ROX-101116-EB		1330		4			2		6	X	X	X	X
	MW24-ROX-101116		1415		4			2		6	X	X	X	X

11 Oct. 2016

Relinquished by: (Signature) [signature] Received by:
Ref: S400-52240 Date: 25Jan16 SHIPPING: 0.00
Dep: Wgt: 10.00 LBS SPECIAL: 0.00
HANDLING: 0.00
DV: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT
TRCK: 6546 8382 3609
Date: 11 Oct 2016 Time: 17:30

Relinquished by: (Signature) Received by:
Date: Time: 10/12/16

Relinquished by: (Signature) Received by:
Ref: S400-52240 Date: 25Jan16 SHIPPING: 0.00
Dep: Wgt: 10.00 LBS SPECIAL: 0.00
HANDLING: 0.00
DV: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT
TRCK: 6546 8382 3610
Date: 10/12/16 Time:

8 custody seals: Test America 664941—664947

IRS
IRS 0.0°C
1.7°C
2.1°C
2.6°C
4.7°C

Version 14Dec15

12/5/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128591-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128591
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C,1.7°C,2.1°C,2.6°C,4.7°C IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW (4Q16)

TestAmerica Job ID: 400-128591-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128701-1-R1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/6/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101216-8011	TB-ROX-101216-8260
P54-ROX-101216	MW11-ROX-101216
MW27-ROX-101216	MW10-ROX-101216

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 SVOC and PAH LCS/LCSD recoveries and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. Surrogate recoveries in several VOC by 8011 and SVOC quality control samples were outside criteria. These issues are addressed further in the appropriate sections below. The laboratory report was also revised on December 6, 2016 to elaborate on SVOC QC recoveries; please see Section 5.0 of this review.

Additionally, the continuing calibration verification for 2-methylphenol exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that three of three coolers were received by the laboratory at a temperature of 0.0°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

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
LCS/LCSD 400-327483/17-A/18-A	SVOCs	Benzenethiol	39/**2**	**178**	20-150/30
LCS/LCSD 400-327483/2-A/3-A	SVOCs	Benzoic acid	**5/5**	4	10-120/30
LCS/LCSD 400-327483/2-A/3-A	SVOCs	2,4-Dinitrophenol	47/64	**31**	22-146/30
LCS/LCSD 400-327483/2-A/3-A	PAHs	Fluorene	**127/127**	0	45-125/56

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. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria. Professional judgment was used to qualify, however not reject, data associated with benzenethiol in LCS/LCSD 400-327483/2-A/3-A; benzenethiol has been identified as a poor performing analyte using Method 8270 SVOC. Professional judgment was also used to qualify, however not reject, data associated with benzoic acid in LCS/LCSD 400-327483/2-A/3-A; data rejections based on LCS recovery failure were not required due to only one non-conformance of 52 LCS recoveries.

Sample ID	Parameter	Analyte	Qualification
P54-ROX-101216	SVOCs	Benzenethiol	**UJ**
P54-ROX-101216	SVOCs	Benzoic acid	**UJ**
MW11-ROX-101216	SVOCs	Benzenethiol	**UJ**
MW11-ROX-101216	SVOCs	Benzoic acid	**UJ**
MW27-ROX-101216	SVOCs	Benzenethiol	**UJ**
MW27-ROX-101216	SVOCs	Benzoic acid	**UJ**
MW10-ROX-101216	SVOCs	Benzenethiol	**UJ**
MW10-ROX-101216	SVOCs	Benzoic acid	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MB 400-327483/1-A	SVOCs	Nitrobenzene-d_5	**25**	27-120
MB 400-3275481/-A	VOCs by 8011	4-Bromofluorobenzene	**177**	51-149
LSC 400-327548/2-A	VOCs by 8011	4-Bromofluorobenzene	**151**	51-149

Method blanks MB 400-327483/1-A and MB 400-327548/1-A, and LCS 400-327548/2-A

are quality control samples, and do not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128701-1
Client Project/Site: ROXANA QUARTERLY (4Q16)
Revision: 1

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn M. Hooper

Authorized for release by:
12/6/2016 6:38:54 PM

Carolyn Hooper, Project Manager I
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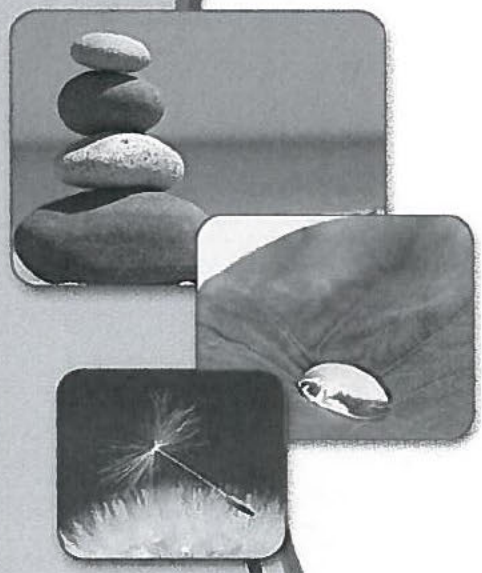

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

Reviewed 12/6/2016 MH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128701-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128701-1

Receipt
The samples were received on 10/13/2016 9:39 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.0°C, 0.0°C and 0.0°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101216-8260 (400-128701-2), P54-ROX-101216 (400-128701-3), MW11-ROX-101216 (400-128701-4), MW27-ROX-101216 (400-128701-5) and MW10-ROX-101216 (400-128701-6). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-327864 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-327864 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 400-327859 recovered above the upper control limit for 2-Methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: P54-ROX-101216 (400-128701-3), MW11-ROX-101216 (400-128701-4), MW27-ROX-101216 (400-128701-5) and MW10-ROX-101216 (400-128701-6).

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-327483 and analytical batch 400-327859 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. .

The following analyte recovered outside the control limits for the LCS/LCSD associated with preparation batch 400-327483 and analytical batch 400-327859: **Benzoic acid**. This is not indicative of a systematic control problem because these were random marginal exceedances. The marginal exceedance limit for a target list of this size (52) is 3 failures. The LCS contained a single compound recovering outside of the lab generated limits; therefore the data qualified with a non-conformence memo and the results have been reported.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 400-327483 recovered outside control limits for the following analytes: 2,4-Dinitrophenol.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 400-327483/1-A). These results have been reported and qualified.

Method 8270D LL: The following analyte recovered outside control limits for the LCS/LCSD associated with preparation batch 400-327483 and analytical batch 400-327644: Fluorene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: (LCS 400-327548/2-A) and (MB 400-327548/1-A). Associated sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-327483.

Job ID: 400-128701-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Revision 1
This report has been revised per client request to elaborate further on Method 8270D recovery issues of Benzoic acid. Please see Method 8270D on previous page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128701-1	TB-ROX-101216-8011	Water	10/12/16 00:00	10/13/16 09:39
400-128701-2	TB-ROX-101216-8260	Water	10/12/16 00:00	10/13/16 09:39
400-128701-3	P54-ROX-101216	Water	10/12/16 09:00	10/13/16 09:39
400-128701-4	MW11-ROX-101216	Water	10/12/16 09:55	10/13/16 09:39
400-128701-5	MW27-ROX-101216	Water	10/12/16 11:15	10/13/16 09:39
400-128701-6	MW10-ROX-101216	Water	10/12/16 13:55	10/13/16 09:39

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Client Sample ID: TB-ROX-101216-8011 — Lab Sample ID: 400-128701-1

No Detections.

Client Sample ID: TB-ROX-101216-8260 — Lab Sample ID: 400-128701-2

No Detections.

Client Sample ID: P54-ROX-101216 — Lab Sample ID: 400-128701-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.038	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.043	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	6.0	J	9.8	2.2	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate	0.86	J	9.8	0.43	ug/L	1		8270D	Total/NA

Client Sample ID: MW11-ROX-101216 — Lab Sample ID: 400-128701-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	4.2	J	9.8	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW27-ROX-101216 — Lab Sample ID: 400-128701-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	7.7	J	9.8	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW10-ROX-101216 — Lab Sample ID: 400-128701-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101216-8011
Date Collected: 10/12/16 00:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-1
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/20/16 10:29	10/21/16 09:46	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/20/16 10:29	10/21/16 09:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*127*		*51 - 149*	*10/20/16 10:29*	*10/21/16 09:46*	*1*

Client Sample ID: TB-ROX-101216-8260

Date Collected: 10/12/16 00:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 20:10	1
Acrolein	ND		20	10	ug/L			10/22/16 20:10	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 20:10	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 20:10	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 20:10	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 20:10	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 20:10	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 20:10	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 20:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 20:10	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 20:10	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 20:10	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 20:10	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 20:10	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 20:10	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 20:10	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 20:10	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 20:10	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 20:10	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 20:10	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 20:10	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 20:10	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 20:10	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 20:10	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 20:10	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 20:10	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 20:10	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 20:10	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 20:10	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 20:10	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 20:10	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 20:10	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 20:10	1

Client Sample ID: TB-ROX-101216-8260
Date Collected: 10/12/16 00:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 20:10	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 20:10	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 20:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 20:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 20:10	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 20:10	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 20:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 20:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 20:10	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:10	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 20:10	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 20:10	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 20:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 20:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 20:10	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 20:10	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 20:10	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/22/16 20:10*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/22/16 20:10*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/22/16 20:10*	*1*

Client Sample ID: P54-ROX-101216

Date Collected: 10/12/16 09:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 20:35	1
Acrolein	ND		20	10	ug/L			10/22/16 20:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 20:35	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 20:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 20:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 20:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 20:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 20:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 20:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 20:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 20:35	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 20:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 20:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 20:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 20:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 20:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 20:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 20:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 20:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 20:35	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 20:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 20:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 20:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 20:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 20:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 20:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 20:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 20:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 20:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 20:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 20:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 20:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 20:35	1

Client Sample ID: P54-ROX-101216
Date Collected: 10/12/16 09:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 20:35	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 20:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 20:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 20:35	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 20:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 20:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 20:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 20:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 20:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 20:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 20:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 20:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 20:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 20:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 20:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 20:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/16 20:35*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*10/22/16 20:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/22/16 20:35*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Anthracene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Chrysene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Fluoranthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Fluorene	ND	*	0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 20:40	1
Phenanthrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
Pyrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
1-Methylnaphthalene	**0.038**	J	0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1
2-Methylnaphthalene	**0.043**	J	0.20	0.020	ug/L		10/19/16 17:49	10/21/16 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*65*		*33 - 138*	*10/19/16 17:49*	*10/21/16 20:40*	*1*
2-Fluorobiphenyl	*64*		*15 - 122*	*10/19/16 17:49*	*10/21/16 20:40*	*1*

Client Sample ID: P54-ROX-101216
Date Collected: 10/12/16 09:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*19 - 130*	*10/19/16 17:49*	*10/21/16 20:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 19:48	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/19/16 17:49	10/22/16 19:48	1
Benzoic acid	ND	* UJ	29	7.1	ug/L		10/19/16 17:49	10/22/16 19:48	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/24/16 14:15	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 19:48	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/19/16 17:49	10/22/16 19:48	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/19/16 17:49	10/22/16 19:48	1
Bis(2-ethylhexyl) phthalate	**6.0**	**J**	9.8	2.2	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/19/16 17:49	10/22/16 19:48	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 19:48	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 19:48	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 19:48	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 19:48	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 19:48	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 19:48	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 19:48	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/19/16 17:49	10/22/16 19:48	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/19/16 17:49	10/22/16 19:48	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4-Dinitrophenol	ND	*	29	3.3	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 19:48	1
Di-n-octyl phthalate	**0.86**	**J**	9.8	0.43	ug/L		10/19/16 17:49	10/22/16 19:48	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 19:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 19:48	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/19/16 17:49	10/22/16 19:48	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/19/16 17:49	10/22/16 19:48	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/19/16 17:49	10/22/16 19:48	1
Indene	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 19:48	1
Isophorone	ND		9.8	0.56	ug/L		10/19/16 17:49	10/22/16 19:48	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 19:48	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/19/16 17:49	10/22/16 19:48	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 19:48	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/19/16 17:49	10/22/16 19:48	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/19/16 17:49	10/22/16 19:48	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/19/16 17:49	10/22/16 19:48	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 19:48	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 19:48	1

Client Sample ID: P54-ROX-101216

Date Collected: 10/12/16 09:00
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/19/16 17:49	10/22/16 19:48	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/19/16 17:49	10/22/16 19:48	1
Pentachlorophenol	ND		20	1.8	ug/L		10/19/16 17:49	10/22/16 19:48	1
Phenol	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 19:48	1
Pyridine	ND		9.8	3.1	ug/L		10/19/16 17:49	10/22/16 19:48	1
Quinoline	ND		9.8	5.9	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/19/16 17:49	10/22/16 19:48	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/19/16 17:49*	*10/22/16 19:48*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/19/16 17:49*	*10/22/16 19:48*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/19/16 17:49*	*10/22/16 19:48*	*1*
Phenol-d5	*64*		*10 - 120*	*10/19/16 17:49*	*10/22/16 19:48*	*1*
Terphenyl-d14	*73*		*53 - 125*	*10/19/16 17:49*	*10/22/16 19:48*	*1*
2,4,6-Tribromophenol	*74*		*15 - 135*	*10/19/16 17:49*	*10/22/16 19:48*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 10:16	1
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 10:16	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 10:16	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/20/16 10:29*	*10/21/16 10:16*	*1*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/20/16 10:29*	*10/21/16 10:16*	*1*

Client Sample ID: MW11-ROX-101216

Lab Sample ID: 400-128701-4

Date Collected: 10/12/16 09:55
Matrix: Water
Date Received: 10/13/16 09:39

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 21:01	1
Acrolein	ND		20	10	ug/L			10/22/16 21:01	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 21:01	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 21:01	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 21:01	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 21:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 21:01	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 21:01	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 21:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 21:01	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 21:01	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 21:01	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 21:01	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 21:01	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 21:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 21:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 21:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 21:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 21:01	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 21:01	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 21:01	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 21:01	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 21:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 21:01	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 21:01	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 21:01	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 21:01	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 21:01	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 21:01	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 21:01	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 21:01	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 21:01	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 21:01	1

Client Sample ID: MW11-ROX-101216
Date Collected: 10/12/16 09:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 21:01	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 21:01	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 21:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 21:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 21:01	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 21:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 21:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 21:01	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:01	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 21:01	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 21:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 21:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 21:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 21:01	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 21:01	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 21:01	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/22/16 21:01*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/22/16 21:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/16 21:01*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Anthracene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Chrysene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Fluoranthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Fluorene	ND	*	0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:03	1
Phenanthrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
Pyrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*33 - 138*	*10/19/16 17:49*	*10/21/16 21:03*	*1*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/19/16 17:49*	*10/21/16 21:03*	*1*

Client Sample ID: MW11-ROX-101216

Date Collected: 10/12/16 09:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*19 - 130*	*10/19/16 17:49*	*10/21/16 21:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 20:21	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/19/16 17:49	10/22/16 20:21	1
Benzoic acid	ND	UJ	29	7.1	ug/L		10/19/16 17:49	10/22/16 20:21	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/24/16 14:48	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 20:21	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/19/16 17:49	10/22/16 20:21	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/19/16 17:49	10/22/16 20:21	1
Bis(2-ethylhexyl) phthalate	**4.2**	**J**	9.8	2.2	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/19/16 17:49	10/22/16 20:21	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 20:21	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 20:21	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:21	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 20:21	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 20:21	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 20:21	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:21	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/19/16 17:49	10/22/16 20:21	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/19/16 17:49	10/22/16 20:21	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 20:21	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/19/16 17:49	10/22/16 20:21	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:21	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/19/16 17:49	10/22/16 20:21	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/19/16 17:49	10/22/16 20:21	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/19/16 17:49	10/22/16 20:21	1
Indene	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:21	1
Isophorone	ND		9.8	0.56	ug/L		10/19/16 17:49	10/22/16 20:21	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 20:21	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/19/16 17:49	10/22/16 20:21	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 20:21	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/19/16 17:49	10/22/16 20:21	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/19/16 17:49	10/22/16 20:21	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/19/16 17:49	10/22/16 20:21	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:21	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:21	1

Client Sample ID: MW11-ROX-101216

Date Collected: 10/12/16 09:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/19/16 17:49	10/22/16 20:21	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/19/16 17:49	10/22/16 20:21	1
Pentachlorophenol	ND		20	1.8	ug/L		10/19/16 17:49	10/22/16 20:21	1
Phenol	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 20:21	1
Pyridine	ND		9.8	3.1	ug/L		10/19/16 17:49	10/22/16 20:21	1
Quinoline	ND		9.8	5.9	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/19/16 17:49	10/22/16 20:21	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/19/16 17:49*	*10/22/16 20:21*	*1*
2-Fluorophenol	*58*		*10 - 120*	*10/19/16 17:49*	*10/22/16 20:21*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/19/16 17:49*	*10/22/16 20:21*	*1*
Phenol-d5	*59*		*10 - 120*	*10/19/16 17:49*	*10/22/16 20:21*	*1*
Terphenyl-d14	*72*		*53 - 125*	*10/19/16 17:49*	*10/22/16 20:21*	*1*
2,4,6-Tribromophenol	*75*		*15 - 135*	*10/19/16 17:49*	*10/22/16 20:21*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:29	10/21/16 10:45	1
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:29	10/21/16 10:45	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 10:45	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*140*		*51 - 149*	*10/20/16 10:29*	*10/21/16 10:45*	*1*
4-Bromofluorobenzene	*140*		*51 - 149*	*10/20/16 10:29*	*10/21/16 10:45*	*1*

Client Sample ID: MW27-ROX-101216
Date Collected: 10/12/16 11:15
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 21:27	1
Acrolein	ND		20	10	ug/L			10/22/16 21:27	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 21:27	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 21:27	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 21:27	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 21:27	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 21:27	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 21:27	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 21:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 21:27	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 21:27	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 21:27	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 21:27	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 21:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 21:27	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 21:27	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 21:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 21:27	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 21:27	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 21:27	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 21:27	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 21:27	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 21:27	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 21:27	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 21:27	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 21:27	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 21:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 21:27	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 21:27	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 21:27	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 21:27	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 21:27	1

Client Sample ID: MW27-ROX-101216
Date Collected: 10/12/16 11:15
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 21:27	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 21:27	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 21:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 21:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 21:27	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 21:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 21:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 21:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:27	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 21:27	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 21:27	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 21:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 21:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 21:27	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 21:27	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 21:27	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/16 21:27*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*10/22/16 21:27*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/22/16 21:27*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Anthracene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Chrysene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Fluorene	ND	*	0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/19/16 17:49	10/21/16 21:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
Pyrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*33 - 138*	*10/19/16 17:49*	*10/21/16 21:26*	*1*
2-Fluorobiphenyl	*84*		*15 - 122*	*10/19/16 17:49*	*10/21/16 21:26*	*1*

Client Sample ID: MW27-ROX-101216

Date Collected: 10/12/16 11:15
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		19 - 130	10/19/16 17:49	10/21/16 21:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 20:54	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/19/16 17:49	10/22/16 20:54	1
Benzoic acid	ND	UJ	29	7.1	ug/L		10/19/16 17:49	10/22/16 20:54	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/24/16 15:22	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 20:54	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/19/16 17:49	10/22/16 20:54	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/19/16 17:49	10/22/16 20:54	1
Bis(2-ethylhexyl) phthalate	**7.7**	**J**	9.8	2.2	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/19/16 17:49	10/22/16 20:54	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/19/16 17:49	10/22/16 20:54	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 20:54	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:54	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 20:54	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/19/16 17:49	10/22/16 20:54	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/19/16 17:49	10/22/16 20:54	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:54	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/19/16 17:49	10/22/16 20:54	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/19/16 17:49	10/22/16 20:54	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/19/16 17:49	10/22/16 20:54	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/19/16 17:49	10/22/16 20:54	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:54	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:54	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/19/16 17:49	10/22/16 20:54	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/19/16 17:49	10/22/16 20:54	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/19/16 17:49	10/22/16 20:54	1
Indene	ND		9.8	0.98	ug/L		10/19/16 17:49	10/22/16 20:54	1
Isophorone	ND		9.8	0.56	ug/L		10/19/16 17:49	10/22/16 20:54	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 20:54	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/19/16 17:49	10/22/16 20:54	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/19/16 17:49	10/22/16 20:54	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/19/16 17:49	10/22/16 20:54	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/19/16 17:49	10/22/16 20:54	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/19/16 17:49	10/22/16 20:54	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/19/16 17:49	10/22/16 20:54	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:54	1

Client Sample ID: MW27-ROX-101216

Date Collected: 10/12/16 11:15
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/19/16 17:49	10/22/16 20:54	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/19/16 17:49	10/22/16 20:54	1
Pentachlorophenol	ND		20	1.8	ug/L		10/19/16 17:49	10/22/16 20:54	1
Phenol	ND		9.8	2.5	ug/L		10/19/16 17:49	10/22/16 20:54	1
Pyridine	ND		9.8	3.1	ug/L		10/19/16 17:49	10/22/16 20:54	1
Quinoline	ND		9.8	5.9	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/19/16 17:49	10/22/16 20:54	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/19/16 17:49	10/22/16 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 120*	*10/19/16 17:49*	*10/22/16 20:54*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/19/16 17:49*	*10/22/16 20:54*	*1*
Nitrobenzene-d5	*73*		*27 - 120*	*10/19/16 17:49*	*10/22/16 20:54*	*1*
Phenol-d5	*56*		*10 - 120*	*10/19/16 17:49*	*10/22/16 20:54*	*1*
Terphenyl-d14	*68*		*53 - 125*	*10/19/16 17:49*	*10/22/16 20:54*	*1*
2,4,6-Tribromophenol	*69*		*15 - 135*	*10/19/16 17:49*	*10/22/16 20:54*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:29	10/21/16 11:15	1
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:29	10/21/16 11:15	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 11:15	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*128*		*51 - 149*	*10/20/16 10:29*	*10/21/16 11:15*	*1*
4-Bromofluorobenzene	*128*		*51 - 149*	*10/20/16 10:29*	*10/21/16 11:15*	*1*

Client Sample ID: MW10-ROX-101216

Date Collected: 10/12/16 13:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 21:53	1
Acrolein	ND		20	10	ug/L			10/22/16 21:53	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 21:53	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 21:53	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 21:53	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 21:53	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 21:53	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 21:53	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 21:53	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 21:53	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 21:53	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 21:53	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 21:53	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 21:53	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:53	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 21:53	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 21:53	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 21:53	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 21:53	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 21:53	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 21:53	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 21:53	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 21:53	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 21:53	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 21:53	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 21:53	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 21:53	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 21:53	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 21:53	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 21:53	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 21:53	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 21:53	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 21:53	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 21:53	1

Client Sample ID: MW10-ROX-101216

Date Collected: 10/12/16 13:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 21:53	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 21:53	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 21:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 21:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 21:53	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 21:53	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 21:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 21:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 21:53	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 21:53	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 21:53	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 21:53	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 21:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 21:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 21:53	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 21:53	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 21:53	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*10/22/16 21:53*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/22/16 21:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/16 21:53*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
Acenaphthylene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
Anthracene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
Benzo[a]anthracene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Benzo[a]pyrene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Benzo[b]fluoranthene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Benzo[g,h,i]perylene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Benzo[k]fluoranthene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Chrysene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Dibenz(a,h)anthracene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Fluoranthene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
Fluorene	ND	*	0.21	0.022	ug/L		10/19/16 17:49	10/21/16 21:49	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.042	ug/L		10/19/16 17:49	10/21/16 21:49	1
Phenanthrene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
Pyrene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
1-Methylnaphthalene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1
2-Methylnaphthalene	ND		0.21	0.021	ug/L		10/19/16 17:49	10/21/16 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*88*		*33 - 138*	*10/19/16 17:49*	*10/21/16 21:49*	*1*
2-Fluorobiphenyl	*75*		*15 - 122*	*10/19/16 17:49*	*10/21/16 21:49*	*1*

Client Sample ID: MW10-ROX-101216

Date Collected: 10/12/16 13:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-6

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		19 - 130	10/19/16 17:49	10/21/16 21:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		11	4.0	ug/L		10/19/16 17:49	10/22/16 21:26	1
Benzenethiol	ND	* UJ	11	1.8	ug/L		10/19/16 17:49	10/22/16 21:26	1
Benzoic acid	ND	UJ	32	7.7	ug/L		10/19/16 17:49	10/22/16 21:26	1
Benzyl alcohol	ND		11	2.1	ug/L		10/19/16 17:49	10/24/16 15:55	1
Bis(2-chloroethoxy)methane	ND		11	0.73	ug/L		10/19/16 17:49	10/22/16 21:26	1
Bis(2-chloroethyl)ether	ND		11	0.78	ug/L		10/19/16 17:49	10/22/16 21:26	1
bis (2-chloroisopropyl) ether	ND		11	0.85	ug/L		10/19/16 17:49	10/22/16 21:26	1
Bis(2-ethylhexyl) phthalate	ND		11	2.4	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Bromophenyl phenyl ether	ND		11	0.34	ug/L		10/19/16 17:49	10/22/16 21:26	1
Butyl benzyl phthalate	ND		11	0.73	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Chloroaniline	ND		11	3.6	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Chloro-3-methylphenol	ND		11	4.0	ug/L		10/19/16 17:49	10/22/16 21:26	1
2-Chloronaphthalene	ND		11	0.55	ug/L		10/19/16 17:49	10/22/16 21:26	1
2-Chlorophenol	ND		11	2.3	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Chlorophenyl phenyl ether	ND		11	2.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
Dibenz[a,h]acridine	ND		11	3.2	ug/L		10/19/16 17:49	10/22/16 21:26	1
Dibenzofuran	ND		11	0.55	ug/L		10/19/16 17:49	10/22/16 21:26	1
3,3'-Dichlorobenzidine	ND		11	2.7	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4-Dichlorophenol	ND		11	3.2	ug/L		10/19/16 17:49	10/22/16 21:26	1
Diethyl phthalate	ND		11	0.74	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4-Dimethylphenol	ND		11	3.7	ug/L		10/19/16 17:49	10/22/16 21:26	1
Dimethyl phthalate	ND		11	0.63	ug/L		10/19/16 17:49	10/22/16 21:26	1
Di-n-butyl phthalate	ND		11	2.8	ug/L		10/19/16 17:49	10/22/16 21:26	1
4,6-Dinitro-ortho-cresol	ND		11	2.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4-Dinitrophenol	ND		32	3.6	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4-Dinitrotoluene	ND		11	2.0	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,6-Dinitrotoluene	ND		11	2.0	ug/L		10/19/16 17:49	10/22/16 21:26	1
Di-n-octyl phthalate	ND		11	0.46	ug/L		10/19/16 17:49	10/22/16 21:26	1
1,4-Dioxane	ND		11	1.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		11	1.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
Hexachlorobenzene	ND		11	0.26	ug/L		10/19/16 17:49	10/22/16 21:26	1
Hexachlorocyclopentadiene	ND		21	2.7	ug/L		10/19/16 17:49	10/22/16 21:26	1
Hexachloroethane	ND		11	4.4	ug/L		10/19/16 17:49	10/22/16 21:26	1
Indene	ND		11	1.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
Isophorone	ND		11	0.60	ug/L		10/19/16 17:49	10/22/16 21:26	1
2-Methylphenol	ND		11	1.9	ug/L		10/19/16 17:49	10/22/16 21:26	1
3 & 4 Methylphenol	ND		21	1.1	ug/L		10/19/16 17:49	10/22/16 21:26	1
2-Nitroaniline	ND		11	2.3	ug/L		10/19/16 17:49	10/22/16 21:26	1
3-Nitroaniline	ND		11	1.9	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Nitroaniline	ND		11	2.6	ug/L		10/19/16 17:49	10/22/16 21:26	1
Nitrobenzene	ND		11	0.58	ug/L		10/19/16 17:49	10/22/16 21:26	1
2-Nitrophenol	ND		11	0.68	ug/L		10/19/16 17:49	10/22/16 21:26	1
4-Nitrophenol	ND		11	2.2	ug/L		10/19/16 17:49	10/22/16 21:26	1
N-Nitrosodimethylamine	ND		11	3.7	ug/L		10/19/16 17:49	10/22/16 21:26	1

Client Sample ID: MW10-ROX-101216

Date Collected: 10/12/16 13:55
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128701-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		11	3.5	ug/L		10/19/16 17:49	10/22/16 21:26	1
N-Nitrosodiphenylamine	ND		11	0.49	ug/L		10/19/16 17:49	10/22/16 21:26	1
Pentachlorophenol	ND		21	1.9	ug/L		10/19/16 17:49	10/22/16 21:26	1
Phenol	ND		11	2.7	ug/L		10/19/16 17:49	10/22/16 21:26	1
Pyridine	ND		11	3.4	ug/L		10/19/16 17:49	10/22/16 21:26	1
Quinoline	ND		11	6.3	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4,5-Trichlorophenol	ND		11	3.9	ug/L		10/19/16 17:49	10/22/16 21:26	1
2,4,6-Trichlorophenol	ND		11	3.7	ug/L		10/19/16 17:49	10/22/16 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/19/16 17:49*	*10/22/16 21:26*	*1*
2-Fluorophenol	*57*		*10 - 120*	*10/19/16 17:49*	*10/22/16 21:26*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*10/19/16 17:49*	*10/22/16 21:26*	*1*
Phenol-d5	*60*		*10 - 120*	*10/19/16 17:49*	*10/22/16 21:26*	*1*
Terphenyl-d14	*76*		*53 - 125*	*10/19/16 17:49*	*10/22/16 21:26*	*1*
2,4,6-Tribromophenol	*76*		*15 - 135*	*10/19/16 17:49*	*10/22/16 21:26*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/20/16 10:29	10/21/16 11:45	1
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/20/16 10:29	10/21/16 11:45	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 11:45	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/20/16 10:29*	*10/21/16 11:45*	*1*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/20/16 10:29*	*10/21/16 11:45*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128591-A-4 MS	Matrix Spike	101	98	96
400-128591-A-4 MSD	Matrix Spike Duplicate	106	95	98
400-128701-2	TB-ROX-101216-8260	98	111	94
400-128701-3	P54-ROX-101216	103	110	100
400-128701-4	MW11-ROX-101216	101	111	96
400-128701-5	MW27-ROX-101216	103	110	95
400-128701-6	MW10-ROX-101216	99	111	97
LCS 400-327864/1002	Lab Control Sample	100	98	100
MB 400-327864/4	Method Blank	101	107	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128701-3	P54-ROX-101216	75	56	75	64	73	74
400-128701-4	MW11-ROX-101216	76	58	76	59	72	75
400-128701-5	MW27-ROX-101216	74	54	73	56	68	69
400-128701-6	MW10-ROX-101216	70	57	72	60	76	76
LCS 400-327483/17-A	Lab Control Sample	58	53	56	57	63	62
LCS 400-327483/2-A	Lab Control Sample	94	88	85	96	94	117
LCSD 400-327483/18-A	Lab Control Sample Dup	89	77	84	87	102	91
LCSD 400-327483/3-A	Lab Control Sample Dup	91	86	82	94	91	115
MB 400-327483/1-A	Method Blank		23	25 X	27	82	75
MB 400-327483/1-A	Method Blank	34					

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128701-3	P54-ROX-101216	65	64	64
400-128701-4	MW11-ROX-101216	76	79	78
400-128701-5	MW27-ROX-101216	74	84	79
400-128701-6	MW10-ROX-101216	88	75	79

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
LCS 400-327483/2-A	Lab Control Sample	102	106	91
LCSD 400-327483/3-A	Lab Control Sample Dup	100	108	88
MB 400-327483/1-A	Method Blank	90	27	21

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	BFB1
Lab Sample ID	Client Sample ID	(51-149)	(51-149)
400-128701-1	TB-ROX-101216-8011	127	127
400-128701-3	P54-ROX-101216	136	136
400-128701-4	MW11-ROX-101216	140	140
400-128701-5	MW27-ROX-101216	128	128
400-128701-6	MW10-ROX-101216	141	141
400-128764-C-2-B MS	Matrix Spike	120	120
400-128764-C-2-C MSD	Matrix Spike Duplicate	117	117
LCS 400-327548/2-A	Lab Control Sample	151 X	151 X
MB 400-327548/1-A	Method Blank	177 X	177 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101216-8011

Lab Sample ID: 400-128701-1

Date Collected: 10/12/16 00:00
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.2 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 09:46	KH1	TAL PEN

Client Sample ID: TB-ROX-101216-8260

Lab Sample ID: 400-128701-2

Date Collected: 10/12/16 00:00
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 20:10	BSW	TAL PEN

Client Sample ID: P54-ROX-101216

Lab Sample ID: 400-128701-3

Date Collected: 10/12/16 09:00
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 20:35	BSW	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 19:48	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 14:15	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 20:40	S1S	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 10:16	KH1	TAL PEN

Client Sample ID: MW11-ROX-101216

Lab Sample ID: 400-128701-4

Date Collected: 10/12/16 09:55
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 21:01	BSW	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 20:21	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 14:48	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 21:03	S1S	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 10:45	KH1	TAL PEN

Client Sample ID: MW27-ROX-101216

Lab Sample ID: 400-128701-5

Date Collected: 10/12/16 11:15
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 21:27	BSW	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 20:54	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 15:22	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 21:26	S1S	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 11:15	KH1	TAL PEN

Client Sample ID: MW10-ROX-101216

Lab Sample ID: 400-128701-6

Date Collected: 10/12/16 13:55
Matrix: Water
Date Received: 10/13/16 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 21:53	BSW	TAL PEN
Total/NA	Prep	3520C			950 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 21:26	MAM	TAL PEN
Total/NA	Prep	3520C			950 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 15:55	MAM	TAL PEN
Total/NA	Prep	3520C			950 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 21:49	S1S	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 11:45	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327483/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 14:21	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 10:55	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 19:07	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327548/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327548/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1			327718	10/21/16 03:19	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327864/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 14:33	BSW	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327483/17-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 15:58	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327483/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 14:53	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 11:28	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327644	10/21/16 19:30	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327548/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:48	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327864/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 12:39	BSW	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327483/18-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 16:32	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327483/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 15:26	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 12:02	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327483	10/19/16 17:49	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327644	10/21/16 19:53	S1S	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128591-A-4 MS

Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 15:51	BSW	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128591-A-4 MSD

Date Collected: 10/11/16 10:00
Date Received: 10/12/16 09:06

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	327864	10/22/16 16:17	BSW	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128764-C-2-B MS

Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.1 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128764-C-2-B MS

Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1			327718	10/21/16 13:44	KH1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128764-C-2-C MSD

Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 14:13	KH1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 327864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-2	TB-ROX-101216-8260	Total/NA	Water	8260B	
400-128701-3	P54-ROX-101216	Total/NA	Water	8260B	
400-128701-4	MW11-ROX-101216	Total/NA	Water	8260B	
400-128701-5	MW27-ROX-101216	Total/NA	Water	8260B	
400-128701-6	MW10-ROX-101216	Total/NA	Water	8260B	
MB 400-327864/4	Method Blank	Total/NA	Water	8260B	
LCS 400-327864/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128591-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
400-128591-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 327483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-3	P54-ROX-101216	Total/NA	Water	3520C	
400-128701-4	MW11-ROX-101216	Total/NA	Water	3520C	
400-128701-5	MW27-ROX-101216	Total/NA	Water	3520C	
400-128701-6	MW10-ROX-101216	Total/NA	Water	3520C	
MB 400-327483/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-327483/17-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-327483/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-327483/18-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-327483/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 327644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-3	P54-ROX-101216	Total/NA	Water	8270D LL	327483
400-128701-4	MW11-ROX-101216	Total/NA	Water	8270D LL	327483
400-128701-5	MW27-ROX-101216	Total/NA	Water	8270D LL	327483
400-128701-6	MW10-ROX-101216	Total/NA	Water	8270D LL	327483
MB 400-327483/1-A	Method Blank	Total/NA	Water	8270D LL	327483
LCS 400-327483/2-A	Lab Control Sample	Total/NA	Water	8270D LL	327483
LCSD 400-327483/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	327483

Analysis Batch: 327859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-3	P54-ROX-101216	Total/NA	Water	8270D	327483
400-128701-4	MW11-ROX-101216	Total/NA	Water	8270D	327483
400-128701-5	MW27-ROX-101216	Total/NA	Water	8270D	327483
400-128701-6	MW10-ROX-101216	Total/NA	Water	8270D	327483
MB 400-327483/1-A	Method Blank	Total/NA	Water	8270D	327483
LCS 400-327483/17-A	Lab Control Sample	Total/NA	Water	8270D	327483
LCS 400-327483/2-A	Lab Control Sample	Total/NA	Water	8270D	327483
LCSD 400-327483/18-A	Lab Control Sample Dup	Total/NA	Water	8270D	327483
LCSD 400-327483/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327483

Analysis Batch: 327974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-3	P54-ROX-101216	Total/NA	Water	8270D	327483
400-128701-4	MW11-ROX-101216	Total/NA	Water	8270D	327483

GC/MS Semi VOA (Continued)

Analysis Batch: 327974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-5	MW27-ROX-101216	Total/NA	Water	8270D	327483
400-128701-6	MW10-ROX-101216	Total/NA	Water	8270D	327483
MB 400-327483/1-A	Method Blank	Total/NA	Water	8270D	327483
LCS 400-327483/2-A	Lab Control Sample	Total/NA	Water	8270D	327483
LCSD 400-327483/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327483

GC Semi VOA

Prep Batch: 327548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-1	TB-ROX-101216-8011	Total/NA	Water	8011	
400-128701-3	P54-ROX-101216	Total/NA	Water	8011	
400-128701-4	MW11-ROX-101216	Total/NA	Water	8011	
400-128701-5	MW27-ROX-101216	Total/NA	Water	8011	
400-128701-6	MW10-ROX-101216	Total/NA	Water	8011	
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	
400-128764-C-2-B MS	Matrix Spike	Total/NA	Water	8011	
400-128764-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	

Analysis Batch: 327718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128701-1	TB-ROX-101216-8011	Total/NA	Water	8011	327548
400-128701-3	P54-ROX-101216	Total/NA	Water	8011	327548
400-128701-4	MW11-ROX-101216	Total/NA	Water	8011	327548
400-128701-5	MW27-ROX-101216	Total/NA	Water	8011	327548
400-128701-6	MW10-ROX-101216	Total/NA	Water	8011	327548
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	327548
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	327548
400-128764-C-2-B MS	Matrix Spike	Total/NA	Water	8011	327548
400-128764-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	327548

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327864/4
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/16 14:33	1
Acrolein	ND		20	10	ug/L			10/22/16 14:33	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/16 14:33	1
Benzene	ND		1.0	0.38	ug/L			10/22/16 14:33	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/16 14:33	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Bromoform	ND		5.0	0.71	ug/L			10/22/16 14:33	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/16 14:33	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/16 14:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/16 14:33	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/16 14:33	1
Chloroform	ND		1.0	0.60	ug/L			10/22/16 14:33	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/16 14:33	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/16 14:33	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/16 14:33	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/16 14:33	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/16 14:33	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/16 14:33	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/16 14:33	1
2-Hexanone	ND		25	3.1	ug/L			10/22/16 14:33	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/16 14:33	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/16 14:33	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/16 14:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/16 14:33	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/16 14:33	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/16 14:33	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/16 14:33	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/16 14:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/16 14:33	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/16 14:33	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/16 14:33	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/16 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327864/4
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/16 14:33	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
Styrene	ND		1.0	1.0	ug/L			10/22/16 14:33	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/16 14:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/16 14:33	1
Toluene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/16 14:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/16 14:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/16 14:33	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/16 14:33	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/16 14:33	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/16 14:33	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/16 14:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/16 14:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/16 14:33	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/16 14:33	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/16 14:33	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/16 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/22/16 14:33*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/22/16 14:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/16 14:33*	*1*

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/L		109	43 - 160
Acrolein	500	507		ug/L		101	38 - 160
Acrylonitrile	500	489		ug/L		98	64 - 142
Benzene	50.0	51.6		ug/L		103	70 - 130
Bromobenzene	50.0	52.4		ug/L		105	70 - 132
Bromochloromethane	50.0	52.3		ug/L		105	70 - 130
Bromodichloromethane	50.0	51.8		ug/L		104	67 - 133
Bromoform	50.0	50.9		ug/L		102	57 - 140
Bromomethane	50.0	53.0		ug/L		106	10 - 160
2-Butanone (MEK)	200	206		ug/L		103	61 - 145
Carbon disulfide	50.0	49.4		ug/L		99	61 - 137
Carbon tetrachloride	50.0	54.1		ug/L		108	61 - 137
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Dibromochloromethane	50.0	50.9		ug/L		102	67 - 135
Chloroethane	50.0	51.3		ug/L		103	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	55.5		ug/L		111	10 - 160
Chloroform	50.0	52.1		ug/L		104	69 - 130
1-Chlorohexane	50.0	49.0		ug/L		98	69 - 130
Chloromethane	50.0	48.8		ug/L		98	58 - 137
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	67 - 130
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	47.1		ug/L		94	41 - 146
1,1-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	48.3		ug/L		97	69 - 130
1,1-Dichloroethene	50.0	48.9		ug/L		98	63 - 134
1,2-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	49.9		ug/L		100	52 - 135
1,1-Dichloropropene	50.0	52.4		ug/L		105	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Ethyl methacrylate	50.0	48.2		ug/L		96	68 - 130
Hexachlorobutadiene	50.0	47.0		ug/L		94	53 - 140
2-Hexanone	200	194		ug/L		97	65 - 137
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
Methylene bromide	50.0	49.1		ug/L		98	70 - 130
Methylene Chloride	50.0	51.0		ug/L		102	66 - 135
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	69 - 138
Methyl tert-butyl ether	50.0	50.2		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	70 - 130
Naphthalene	50.0	46.3		ug/L		93	47 - 149
n-Butylbenzene	50.0	47.2		ug/L		94	67 - 130
N-Propylbenzene	50.0	50.6		ug/L		101	70 - 130
o-Chlorotoluene	50.0	45.6		ug/L		91	70 - 130
o-Xylene	50.0	48.3		ug/L		97	70 - 130
p-Chlorotoluene	50.0	50.0		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	47.7		ug/L		95	65 - 130
sec-Butylbenzene	50.0	47.2		ug/L		94	66 - 130
Styrene	50.0	49.1		ug/L		98	70 - 130
tert-Butylbenzene	50.0	46.8		ug/L		94	64 - 139
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	70 - 131
Tetrachloroethene	50.0	48.5		ug/L		97	65 - 130
Toluene	50.0	50.2		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.5		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	60 - 138
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	60 - 140
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	68 - 130
1,1,2-Trichloroethane	50.0	55.2		ug/L		110	70 - 130
Trichloroethene	50.0	52.9		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327864/1002
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	52.5		ug/L		105	65 - 138
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	46.5		ug/L		93	69 - 130
Vinyl acetate	100	110		ug/L		110	26 - 160
Vinyl chloride	50.0	50.1		ug/L		100	59 - 136
Xylenes, Total	100	97.4		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 400-128591-A-4 MS
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	167		ug/L		83	43 - 160
Acrolein	ND		500	541		ug/L		108	38 - 160
Acrylonitrile	ND		500	521		ug/L		104	62 - 149
Benzene	ND		50.0	54.3		ug/L		109	56 - 142
Bromobenzene	ND		50.0	50.6		ug/L		101	59 - 136
Bromochloromethane	ND		50.0	54.8		ug/L		110	64 - 140
Bromodichloromethane	ND		50.0	53.9		ug/L		108	59 - 143
Bromoform	ND		50.0	50.5		ug/L		101	50 - 140
Bromomethane	ND		50.0	58.2		ug/L		116	10 - 160
2-Butanone (MEK)	ND		200	202		ug/L		101	55 - 150
Carbon disulfide	ND		50.0	51.6		ug/L		103	48 - 152
Carbon tetrachloride	ND		50.0	53.2		ug/L		106	55 - 145
Chlorobenzene	ND		50.0	52.0		ug/L		104	64 - 130
Dibromochloromethane	ND		50.0	54.3		ug/L		109	56 - 143
Chloroethane	ND		50.0	56.9		ug/L		114	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	52.2		ug/L		104	60 - 141
1-Chlorohexane	ND		50.0	50.1		ug/L		100	56 - 136
Chloromethane	ND		50.0	51.1		ug/L		102	49 - 148
cis-1,2-Dichloroethene	ND		50.0	51.6		ug/L		103	59 - 143
cis-1,3-Dichloropropene	ND		50.0	55.6		ug/L		111	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.9		ug/L		94	52 - 137
1,3-Dichlorobenzene	ND		50.0	48.9		ug/L		98	54 - 135
1,4-Dichlorobenzene	ND		50.0	48.9		ug/L		98	53 - 135
Dichlorodifluoromethane	ND		50.0	49.2		ug/L		98	16 - 160
1,1-Dichloroethane	ND		50.0	52.9		ug/L		106	61 - 144
1,2-Dichloroethane	ND		50.0	51.9		ug/L		104	60 - 141
1,1-Dichloroethene	ND		50.0	49.8		ug/L		100	54 - 147
1,2-Dichloropropane	ND		50.0	53.8		ug/L		108	66 - 137
1,3-Dichloropropane	ND		50.0	54.7		ug/L		109	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-A-4 MS
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	50.0		ug/L		100	42 - 144
1,1-Dichloropropene	ND		50.0	54.6		ug/L		109	65 - 136
Ethylbenzene	ND		50.0	50.4		ug/L		101	58 - 131
Ethyl methacrylate	ND		50.0	52.4		ug/L		105	64 - 130
Hexachlorobutadiene	ND		50.0	46.3		ug/L		93	31 - 149
2-Hexanone	ND		200	194		ug/L		97	65 - 140
Isopropylbenzene	ND		50.0	47.8		ug/L		96	56 - 133
Methylene bromide	ND		50.0	53.8		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	52.5		ug/L		105	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	213		ug/L		106	63 - 146
Methyl tert-butyl ether	2.7		50.0	55.1		ug/L		105	59 - 137
m-Xylene & p-Xylene	ND		50.0	49.8		ug/L		100	57 - 130
Naphthalene	ND		50.0	48.4		ug/L		97	25 - 160
n-Butylbenzene	ND		50.0	45.4		ug/L		91	41 - 142
N-Propylbenzene	ND		50.0	50.0		ug/L		100	51 - 138
o-Chlorotoluene	ND		50.0	46.9		ug/L		94	53 - 134
o-Xylene	ND		50.0	50.4		ug/L		101	61 - 130
p-Chlorotoluene	ND		50.0	50.3		ug/L		101	54 - 133
p-Isopropyltoluene	ND		50.0	45.9		ug/L		92	48 - 139
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138
Styrene	ND		50.0	50.5		ug/L		101	58 - 131
tert-Butylbenzene	ND		50.0	46.4		ug/L		93	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	51.9		ug/L		104	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	51.7		ug/L		103	66 - 135
Tetrachloroethene	ND		50.0	48.7		ug/L		97	52 - 133
Toluene	ND		50.0	52.7		ug/L		105	65 - 130
trans-1,2-Dichloroethene	ND		50.0	54.2		ug/L		108	61 - 143
trans-1,3-Dichloropropene	ND		50.0	53.4		ug/L		107	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	44.4		ug/L		89	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	43.9		ug/L		88	39 - 148
1,1,1-Trichloroethane	ND		50.0	50.6		ug/L		101	57 - 142
1,1,2-Trichloroethane	ND		50.0	55.6		ug/L		111	66 - 131
Trichloroethene	ND		50.0	53.2		ug/L		106	64 - 136
Trichlorofluoromethane	ND		50.0	53.6		ug/L		107	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.4		ug/L		97	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.5		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	45.4		ug/L		91	52 - 135
Vinyl acetate	ND		100	111		ug/L		111	26 - 160
Vinyl chloride	ND		50.0	52.1		ug/L		104	46 - 152
Xylenes, Total	ND		100	100		ug/L		100	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-A-4 MSD
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	161		ug/L		81	43 - 160	3	30
Acrolein	ND		500	522		ug/L		104	38 - 160	4	31
Acrylonitrile	ND		500	498		ug/L		100	62 - 149	4	30
Benzene	ND		50.0	52.3		ug/L		105	56 - 142	4	30
Bromobenzene	ND		50.0	51.0		ug/L		102	59 - 136	1	30
Bromochloromethane	ND		50.0	55.8		ug/L		112	64 - 140	2	30
Bromodichloromethane	ND		50.0	50.9		ug/L		102	59 - 143	6	30
Bromoform	ND		50.0	47.9		ug/L		96	50 - 140	5	30
Bromomethane	ND		50.0	53.1		ug/L		106	10 - 160	9	50
2-Butanone (MEK)	ND		200	185		ug/L		93	55 - 150	9	30
Carbon disulfide	ND		50.0	50.2		ug/L		100	48 - 152	3	30
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	55 - 145	4	30
Chlorobenzene	ND		50.0	51.9		ug/L		104	64 - 130	0	30
Dibromochloromethane	ND		50.0	53.2		ug/L		106	56 - 143	2	30
Chloroethane	ND		50.0	54.1		ug/L		108	50 - 151	5	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	51.1		ug/L		102	60 - 141	2	30
1-Chlorohexane	ND		50.0	47.0		ug/L		94	56 - 136	6	30
Chloromethane	ND		50.0	46.8		ug/L		94	49 - 148	9	31
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	52.4		ug/L		105	57 - 140	6	30
1,2-Dichlorobenzene	ND		50.0	45.0		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	47.8		ug/L		96	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	48.5		ug/L		97	53 - 135	1	30
Dichlorodifluoromethane	ND		50.0	46.5		ug/L		93	16 - 160	6	31
1,1-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	49.5		ug/L		99	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	48.6		ug/L		97	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	53.0		ug/L		106	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	48.6		ug/L		97	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	53.1		ug/L		106	65 - 136	3	30
Ethylbenzene	ND		50.0	49.0		ug/L		98	58 - 131	3	30
Ethyl methacrylate	ND		50.0	49.5		ug/L		99	64 - 130	6	30
Hexachlorobutadiene	ND		50.0	48.7		ug/L		97	31 - 149	5	36
2-Hexanone	ND		200	191		ug/L		96	65 - 140	2	30
Isopropylbenzene	ND		50.0	46.8		ug/L		94	56 - 133	2	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	50.1		ug/L		100	60 - 146	5	32
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		102	63 - 146	4	30
Methyl tert-butyl ether	2.7		50.0	52.3		ug/L		99	59 - 137	5	30
m-Xylene & p-Xylene	ND		50.0	48.8		ug/L		98	57 - 130	2	30
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160	0	30
n-Butylbenzene	ND		50.0	45.3		ug/L		91	41 - 142	0	31
N-Propylbenzene	ND		50.0	49.6		ug/L		99	51 - 138	1	30
o-Chlorotoluene	ND		50.0	44.7		ug/L		89	53 - 134	5	30
o-Xylene	ND		50.0	48.5		ug/L		97	61 - 130	4	30
p-Chlorotoluene	ND		50.0	49.6		ug/L		99	54 - 133	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128591-A-4 MSD
Matrix: Water
Analysis Batch: 327864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	46.6		ug/L		93	48 - 139	1	30
sec-Butylbenzene	ND		50.0	46.0		ug/L		92	50 - 138	0	30
Styrene	ND		50.0	48.7		ug/L		97	58 - 131	4	30
tert-Butylbenzene	ND		50.0	45.0		ug/L		90	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	50.5		ug/L		101	59 - 137	3	30
1,1,2,2-Tetrachloroethane	ND		50.0	48.7		ug/L		97	66 - 135	6	30
Tetrachloroethene	ND		50.0	45.4		ug/L		91	52 - 133	7	30
Toluene	ND		50.0	51.1		ug/L		102	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	52.0		ug/L		104	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	51.6		ug/L		103	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	46.3		ug/L		93	43 - 145	4	30
1,2,4-Trichlorobenzene	ND		50.0	44.4		ug/L		89	39 - 148	1	30
1,1,1-Trichloroethane	ND		50.0	50.1		ug/L		100	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	55.8		ug/L		112	66 - 131	0	30
Trichloroethene	ND		50.0	51.8		ug/L		104	64 - 136	3	30
Trichlorofluoromethane	ND		50.0	50.4		ug/L		101	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139	0	30
1,3,5-Trimethylbenzene	ND		50.0	46.9		ug/L		94	52 - 135	3	30
Vinyl acetate	ND		100	99.6		ug/L		100	26 - 160	11	33
Vinyl chloride	ND		50.0	49.2		ug/L		98	46 - 152	6	30
Xylenes, Total	ND		100	97.3		ug/L		97	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327483/1-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/19/16 17:49	10/22/16 14:21	1
Benzenethiol	ND		10	1.7	ug/L		10/19/16 17:49	10/22/16 14:21	1
Benzoic acid	ND		30	7.3	ug/L		10/19/16 17:49	10/22/16 14:21	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/19/16 17:49	10/22/16 14:21	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/19/16 17:49	10/22/16 14:21	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/19/16 17:49	10/22/16 14:21	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/19/16 17:49	10/22/16 14:21	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/19/16 17:49	10/22/16 14:21	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/19/16 17:49	10/22/16 14:21	1
4-Chloroaniline	ND		10	3.4	ug/L		10/19/16 17:49	10/22/16 14:21	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/19/16 17:49	10/22/16 14:21	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/19/16 17:49	10/22/16 14:21	1
2-Chlorophenol	ND		10	2.2	ug/L		10/19/16 17:49	10/22/16 14:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327483/1-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
Dibenzofuran	ND		10	0.52	ug/L		10/19/16 17:49	10/22/16 14:21	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
Diethyl phthalate	ND		10	0.70	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/19/16 17:49	10/22/16 14:21	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/19/16 17:49	10/22/16 14:21	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/19/16 17:49	10/22/16 14:21	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/19/16 17:49	10/22/16 14:21	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/19/16 17:49	10/22/16 14:21	1
1,4-Dioxane	ND		10	1.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/19/16 17:49	10/22/16 14:21	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/19/16 17:49	10/22/16 14:21	1
Hexachloroethane	ND		10	4.2	ug/L		10/19/16 17:49	10/22/16 14:21	1
Indene	ND		10	1.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
Isophorone	ND		10	0.57	ug/L		10/19/16 17:49	10/22/16 14:21	1
2-Methylphenol	ND		10	1.8	ug/L		10/19/16 17:49	10/22/16 14:21	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
2-Nitroaniline	ND		10	2.2	ug/L		10/19/16 17:49	10/22/16 14:21	1
3-Nitroaniline	ND		10	1.8	ug/L		10/19/16 17:49	10/22/16 14:21	1
4-Nitroaniline	ND		10	2.5	ug/L		10/19/16 17:49	10/22/16 14:21	1
Nitrobenzene	ND		10	0.55	ug/L		10/19/16 17:49	10/22/16 14:21	1
2-Nitrophenol	ND		10	0.65	ug/L		10/19/16 17:49	10/22/16 14:21	1
4-Nitrophenol	ND		10	2.1	ug/L		10/19/16 17:49	10/22/16 14:21	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/19/16 17:49	10/22/16 14:21	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/19/16 17:49	10/22/16 14:21	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/19/16 17:49	10/22/16 14:21	1
Pentachlorophenol	ND		20	1.8	ug/L		10/19/16 17:49	10/22/16 14:21	1
Phenol	ND		10	2.6	ug/L		10/19/16 17:49	10/22/16 14:21	1
Pyridine	ND		10	3.2	ug/L		10/19/16 17:49	10/22/16 14:21	1
Quinoline	ND		10	6.0	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/19/16 17:49	10/22/16 14:21	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/19/16 17:49	10/22/16 14:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*23*		*10 - 120*	*10/19/16 17:49*	*10/22/16 14:21*	*1*
Nitrobenzene-d5	*25*	*X*	*27 - 120*	*10/19/16 17:49*	*10/22/16 14:21*	*1*
Phenol-d5	*27*		*10 - 120*	*10/19/16 17:49*	*10/22/16 14:21*	*1*
Terphenyl-d14	*82*		*53 - 125*	*10/19/16 17:49*	*10/22/16 14:21*	*1*
2,4,6-Tribromophenol	*75*		*15 - 135*	*10/19/16 17:49*	*10/22/16 14:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327483/1-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		10	2.0	ug/L		10/19/16 17:49	10/24/16 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*34*		*34 - 120*	*10/19/16 17:49*	*10/24/16 10:55*	*1*

Lab Sample ID: LCS 400-327483/17-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	11.6		ug/L		39	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*34 - 120*
2-Fluorophenol	*53*		*10 - 120*
Nitrobenzene-d5	*56*		*27 - 120*
Phenol-d5	*57*		*10 - 120*
Terphenyl-d14	*63*		*53 - 125*
2,4,6-Tribromophenol	*62*		*15 - 135*

Lab Sample ID: LCS 400-327483/2-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	30.1		ug/L		100	10 - 145
Benzoic acid	126	ND	*	ug/L		5	10 - 120
Bis(2-chloroethoxy)methane	30.0	25.5		ug/L		85	54 - 123
Bis(2-chloroethyl)ether	30.0	28.9		ug/L		96	47 - 120
bis (2-chloroisopropyl) ether	30.0	26.7		ug/L		89	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	32.5		ug/L		108	62 - 140
4-Bromophenyl phenyl ether	30.0	28.7		ug/L		96	62 - 132
Butyl benzyl phthalate	30.0	30.2		ug/L		101	51 - 150
4-Chloroaniline	30.0	26.5		ug/L		88	32 - 128
4-Chloro-3-methylphenol	30.0	31.1		ug/L		104	47 - 135
2-Chloronaphthalene	30.0	30.1		ug/L		100	24 - 150
2-Chlorophenol	30.0	27.4		ug/L		91	45 - 120
4-Chlorophenyl phenyl ether	30.0	30.6		ug/L		102	61 - 133
Dibenz[a,h]acridine	30.0	37.0		ug/L		123	60 - 131
Dibenzofuran	30.0	30.5		ug/L		102	62 - 124
3,3'-Dichlorobenzidine	40.0	45.6		ug/L		114	16 - 167
2,4-Dichlorophenol	30.0	28.1		ug/L		94	52 - 125
Diethyl phthalate	30.0	28.6		ug/L		95	55 - 140
2,4-Dimethylphenol	30.0	27.7		ug/L		92	52 - 121
Dimethyl phthalate	30.0	31.2		ug/L		104	50 - 133
Di-n-butyl phthalate	30.0	30.9		ug/L		103	59 - 144
4,6-Dinitro-ortho-cresol	60.0	51.6		ug/L		86	46 - 136

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327483/2-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	101	47.4		ug/L		47	22 - 146
2,4-Dinitrotoluene	30.0	30.0		ug/L		100	54 - 141
2,6-Dinitrotoluene	30.0	31.1		ug/L		104	61 - 130
Di-n-octyl phthalate	30.0	29.4		ug/L		98	55 - 140
1,4-Dioxane	30.0	22.0		ug/L		73	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	28.4		ug/L		95	55 - 139
Hexachlorobenzene	30.0	30.6		ug/L		102	60 - 138
Hexachlorocyclopentadiene	30.0	29.9		ug/L		100	1 - 139
Hexachloroethane	30.0	27.5		ug/L		92	46 - 121
Indene	30.0	27.1		ug/L		90	17 - 141
Isophorone	30.0	26.1		ug/L		87	57 - 122
2-Methylphenol	30.0	34.9		ug/L		116	38 - 121
3 & 4 Methylphenol	30.0	26.8		ug/L		89	43 - 126
2-Nitroaniline	30.0	34.0		ug/L		113	52 - 135
3-Nitroaniline	30.0	30.9		ug/L		103	51 - 128
4-Nitroaniline	30.0	30.3		ug/L		101	38 - 141
Nitrobenzene	30.0	26.1		ug/L		87	52 - 128
2-Nitrophenol	30.0	26.4		ug/L		88	47 - 129
4-Nitrophenol	60.0	68.5		ug/L		114	34 - 137
N-Nitrosodimethylamine	30.0	27.9		ug/L		93	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.2		ug/L		87	41 - 143
N-Nitrosodiphenylamine	29.8	27.5		ug/L		92	10 - 185
Pentachlorophenol	60.0	49.6		ug/L		83	38 - 138
Phenol	30.0	27.9		ug/L		93	37 - 120
Pyridine	30.0	21.5		ug/L		72	10 - 127
Quinoline	30.0	29.9		ug/L		100	10 - 164
2,4,5-Trichlorophenol	30.0	32.0		ug/L		107	53 - 130
2,4,6-Trichlorophenol	30.0	30.2		ug/L		101	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*34 - 120*
2-Fluorophenol	*88*		*10 - 120*
Nitrobenzene-d5	*85*		*27 - 120*
Phenol-d5	*96*		*10 - 120*
Terphenyl-d14	*94*		*53 - 125*
2,4,6-Tribromophenol	*117*		*15 - 135*

Lab Sample ID: LCS 400-327483/2-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	30.0	26.6		ug/L		89	51 - 121

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327483/18-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	20 - 150	178	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*34 - 120*
2-Fluorophenol	*77*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*
Phenol-d5	*87*		*10 - 120*
Terphenyl-d14	*102*		*53 - 125*
2,4,6-Tribromophenol	*91*		*15 - 135*

Lab Sample ID: LCSD 400-327483/3-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	27.9		ug/L		93	10 - 145	8	30
Benzoic acid	126	ND	*	ug/L		5	10 - 120	4	30
Bis(2-chloroethoxy)methane	30.0	23.9		ug/L		80	54 - 123	7	30
Bis(2-chloroethyl)ether	30.0	26.4		ug/L		88	47 - 120	9	30
bis (2-chloroisopropyl) ether	30.0	24.7		ug/L		82	20 - 142	8	30
Bis(2-ethylhexyl) phthalate	30.0	29.9		ug/L		100	62 - 140	8	30
4-Bromophenyl phenyl ether	30.0	26.6		ug/L		89	62 - 132	8	30
Butyl benzyl phthalate	30.0	28.2		ug/L		94	51 - 150	7	30
4-Chloroaniline	30.0	24.9		ug/L		83	32 - 128	6	30
4-Chloro-3-methylphenol	30.0	29.1		ug/L		97	47 - 135	7	30
2-Chloronaphthalene	30.0	28.0		ug/L		93	24 - 150	7	30
2-Chlorophenol	30.0	25.7		ug/L		86	45 - 120	6	30
4-Chlorophenyl phenyl ether	30.0	28.4		ug/L		95	61 - 133	8	30
Dibenz[a,h]acridine	30.0	37.8		ug/L		126	60 - 131	2	30
Dibenzofuran	30.0	28.1		ug/L		94	62 - 124	8	30
3,3'-Dichlorobenzidine	40.0	43.9		ug/L		110	16 - 167	4	30
2,4-Dichlorophenol	30.0	26.5		ug/L		88	52 - 125	6	30
Diethyl phthalate	30.0	26.7		ug/L		89	55 - 140	7	30
2,4-Dimethylphenol	30.0	25.5		ug/L		85	52 - 121	8	30
Dimethyl phthalate	30.0	29.4		ug/L		98	50 - 133	6	30
Di-n-butyl phthalate	30.0	28.9		ug/L		96	59 - 144	7	30
4,6-Dinitro-ortho-cresol	60.0	53.7		ug/L		90	46 - 136	4	30
2,4-Dinitrophenol	101	64.8	*	ug/L		64	22 - 146	31	30
2,4-Dinitrotoluene	30.0	28.5		ug/L		95	54 - 141	5	30
2,6-Dinitrotoluene	30.0	29.2		ug/L		97	61 - 130	6	30
Di-n-octyl phthalate	30.0	27.2		ug/L		91	55 - 140	8	30
1,4-Dioxane	30.0	21.0		ug/L		70	10 - 130	5	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.5		ug/L		88	55 - 139	7	30
Hexachlorobenzene	30.0	28.5		ug/L		95	60 - 138	7	30
Hexachlorocyclopentadiene	30.0	27.7		ug/L		92	1 - 139	8	30
Hexachloroethane	30.0	24.9		ug/L		83	46 - 121	10	30
Indene	30.0	26.8		ug/L		89	17 - 141	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327483/3-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone	30.0	24.5		ug/L		82	57 - 122	6	30
2-Methylphenol	30.0	32.3		ug/L		108	38 - 121	8	30
3 & 4 Methylphenol	30.0	25.0		ug/L		83	43 - 126	7	30
2-Nitroaniline	30.0	32.6		ug/L		109	52 - 135	4	30
3-Nitroaniline	30.0	29.6		ug/L		99	51 - 128	4	30
4-Nitroaniline	30.0	31.9		ug/L		106	38 - 141	5	30
Nitrobenzene	30.0	24.4		ug/L		81	52 - 128	7	30
2-Nitrophenol	30.0	24.9		ug/L		83	47 - 129	6	30
4-Nitrophenol	60.0	63.0		ug/L		105	34 - 137	8	30
N-Nitrosodimethylamine	30.0	25.9		ug/L		86	21 - 134	8	30
N-Nitrosodi-n-propylamine	30.0	24.6		ug/L		82	41 - 143	6	30
N-Nitrosodiphenylamine	29.8	25.9		ug/L		87	10 - 185	6	30
Pentachlorophenol	60.0	50.3		ug/L		84	38 - 138	1	30
Phenol	30.0	26.0		ug/L		87	37 - 120	7	30
Pyridine	30.0	20.7		ug/L		69	10 - 127	4	30
Quinoline	30.0	30.1		ug/L		100	10 - 164	1	30
2,4,5-Trichlorophenol	30.0	30.3		ug/L		101	53 - 130	6	30
2,4,6-Trichlorophenol	30.0	28.4		ug/L		95	52 - 131	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol	*86*		*10 - 120*
Nitrobenzene-d5	*82*		*27 - 120*
Phenol-d5	*94*		*10 - 120*
Terphenyl-d14	*91*		*53 - 125*
2,4,6-Tribromophenol	*115*		*15 - 135*

Lab Sample ID: LCSD 400-327483/3-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzyl alcohol	30.0	24.9		ug/L		83	51 - 121	7	30

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-327483/1-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
Anthracene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-327483/1-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Chrysene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Fluoranthene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
Fluorene	ND		0.20	0.021	ug/L		10/19/16 17:49	10/21/16 19:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/19/16 17:49	10/21/16 19:07	1
Phenanthrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
Pyrene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/19/16 17:49	10/21/16 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*33 - 138*	*10/19/16 17:49*	*10/21/16 19:07*	*1*
2-Fluorobiphenyl	*27*		*15 - 122*	*10/19/16 17:49*	*10/21/16 19:07*	*1*
Nitrobenzene-d5	*21*		*19 - 130*	*10/19/16 17:49*	*10/21/16 19:07*	*1*

Lab Sample ID: LCS 400-327483/2-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	34.7		ug/L		116	41 - 120
Acenaphthylene	30.0	32.8		ug/L		109	44 - 120
Anthracene	30.0	30.5		ug/L		102	49 - 120
Benzo[a]anthracene	30.0	29.5		ug/L		98	61 - 135
Benzo[a]pyrene	30.0	27.0		ug/L		90	52 - 120
Benzo[b]fluoranthene	30.0	28.0		ug/L		93	53 - 134
Benzo[g,h,i]perylene	30.0	22.6		ug/L		75	47 - 133
Benzo[k]fluoranthene	30.0	27.7		ug/L		92	57 - 134
Chrysene	30.0	29.8		ug/L		99	55 - 122
Dibenz(a,h)anthracene	30.0	26.7		ug/L		89	48 - 146
Fluoranthene	30.0	31.3		ug/L		104	54 - 128
Fluorene	30.0	38.2	*	ug/L		127	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	25.4		ug/L		85	43 - 142
Phenanthrene	30.0	30.1		ug/L		100	48 - 120
Pyrene	30.0	29.5		ug/L		98	48 - 132
1-Methylnaphthalene	30.0	26.0		ug/L		87	41 - 120
2-Methylnaphthalene	30.0	26.1		ug/L		87	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*102*		*33 - 138*
2-Fluorobiphenyl	*106*		*15 - 122*
Nitrobenzene-d5	*91*		*19 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-327483/3-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	32.6		ug/L		109	41 - 120	6	56
Acenaphthylene	30.0	31.6		ug/L		105	44 - 120	4	56
Anthracene	30.0	28.7		ug/L		96	49 - 120	6	51
Benzo[a]anthracene	30.0	27.7		ug/L		92	61 - 135	6	49
Benzo[a]pyrene	30.0	25.5		ug/L		85	52 - 120	6	50
Benzo[b]fluoranthene	30.0	27.2		ug/L		91	53 - 134	3	54
Benzo[g,h,i]perylene	30.0	18.8		ug/L		63	47 - 133	18	50
Benzo[k]fluoranthene	30.0	27.1		ug/L		90	57 - 134	2	52
Chrysene	30.0	28.2		ug/L		94	55 - 122	5	50
Dibenz(a,h)anthracene	30.0	22.8		ug/L		76	48 - 146	15	50
Fluoranthene	30.0	29.5		ug/L		98	54 - 128	6	52
Fluorene	30.0	38.1	*	ug/L		127	45 - 125	0	56
Indeno[1,2,3-cd]pyrene	30.0	22.3		ug/L		74	43 - 142	13	51
Phenanthrene	30.0	28.4		ug/L		95	48 - 120	6	56
Pyrene	30.0	27.9		ug/L		93	48 - 132	6	52
1-Methylnaphthalene	30.0	23.5		ug/L		78	41 - 120	10	55
2-Methylnaphthalene	30.0	23.8		ug/L		79	32 - 124	9	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*100*		*33 - 138*
2-Fluorobiphenyl	*108*		*15 - 122*
Nitrobenzene-d5	*88*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327548/1-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 03:19	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*177*	*X*	*51 - 149*	*10/20/16 10:29*	*10/21/16 03:19*	*1*

Lab Sample ID: LCS 400-327548/2-A
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.115		ug/L		115	60 - 140
1,2-Dibromoethane	0.100	0.124		ug/L		124	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*151*	*X*	*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-128764-C-2-B MS
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0980		ug/L		95	65 - 135
1,2-Dibromoethane	ND		0.103	0.108		ug/L		105	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*120*		*51 - 149*

Lab Sample ID: 400-128764-C-2-C MSD
Matrix: Water
Analysis Batch: 327718

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.101	0.0923		ug/L		91	65 - 135	6	20
1,2-Dibromoethane	ND		0.101	0.0941		ug/L		93	65 - 135	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*117*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☑ OTHER ENV. SERVICES

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12 Oct. 2016

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): J. Clark / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

BO To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

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

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL

NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101216-8011	10/12/16	0000	Water	2					2	X			
	TB-ROX-101216-8260		0000		2					2			X	
	P54-ROX-101216		0900		4			2		6	X	X	X	X
	MW11-ROX-101216		0955		4			2		6	X	X	X	X
	MW27-ROX-101216		1115		4			2		6	X	X	X	X
	MW10-ROX-101216		1355		4			2		6	X	X	X	X

400-128701 COC

Relinquished by: (Signature) — Date: 12 Oct. 2016 — Time: 1730

Received by: (Signature) — 10/13/16 939 — 0.0°C 0.0°C 0.0°C IR6

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature) — Date: — Time:

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12/8/2016

Ref: S400-57320 Date: 27Jul16 Wgt: 10.00 LBS DV: 0.00
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7171

Custody seals: Test America 664949 / 664950 / 665145 / 665146 784741 → 784744

Ref: S400-57320 Dep: Date: 27Jul16 Wgt: 10.00 LBS DV: 0.00
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7182

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128701-1

Login Number: 128701
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C , 0.0°C , 0.0°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128701-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128726-1-R2

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/6/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101316-8011	TB-ROX-101316-8260
MW9-ROX-101316	ROST3MW-ROX-101316
MW1-ROX-101316	MW28-ROX-101316
MW2-ROX-101316	ROST4PZC-ROX-101316

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 the SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria. The VOC by 8011 surrogate recovery for 4-bromofluorobenzene was outside criteria in sample MW2-ROX-101316, and the SVOC surrogate 4-fluorophenol was outside criteria in samples MW2-ROX-101316 and ROST4PZC-ROX-101316. VOCs and PAHs were minimally diluted in sample ROST4PZC-ROX-101316 to bring analyte concentrations within calibration range. These issues are addressed further in the appropriate sections below. The laboratory report was revised on December 6, 2016 to elaborate on SVOC QC recoveries, and was revised to correct the prep batch indicated in the laboratory case narrative; please see Section 5.0 of this review.

Additionally, the continuing calibration verification for 2-methylphenol exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that two of four coolers were received by the laboratory at temperatures of 1.0°C and 1.4°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

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
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Benzoic acid	**5/5**	0	10-120/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Bis(2-chloroethyl)ether	68/93	**31**	47-120/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	4-Chloro-3-methylphenol	71/101	**35**	47-135/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2-Chlorophenol	56/82	**37**	45-120/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	4-Chlorophenyl phenyl ether	73/99	**31**	61-133/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2,4-Dichlorophenol	62/91	**37**	52-125/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2,4-Dimethylphenol	67/92	**32**	52-121/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Dimethyl phthalate	76/103	**31**	50-133/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	1,4-Dioxane	54/78	**36**	10-130/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Hexachloroethane	63/85	**31**	46-121/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Nitrobenzene	64/87	**31**	52-128/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2-Nitrophenol	58/85	**39**	47-129/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Phenol	57/83	**37**	37-120/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2,4,5-Trichlorophenol	74/103	**33**	53-130/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	2,4,6-Trichlorophenol	67/97	**36**	52-131/30
LCS/LCSD 400-327625/2-A/3-A	SVOCs	Benzyl alcohol	54/77	**36**	51-121/30
LCS/LCSD 400-327625/4-A/5-A	SVOCs	Benzenethiol	**4/3**	5	20-150/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria. Professional judgment was used to qualify, however not reject, data associated with benzenethiol in LCS/LCSD 400-327625/2-A/3-A; benzenethiol has been identified as a

poor performing analyte using Method 8270 SVOC. Professional judgment was also used to qualify, however not reject, data associated with benzoic acid in LCS/LCSD 400-327625/2-A/3-A; data rejections based on LCS recovery failure were not required due to only one non-conformance of 52 LCS recoveries.

Sample ID	Parameter	Analyte	Qualification
MW9-ROX-101316	SVOCs	Benzenethiol	**UJ**
MW9-ROX-101316	SVOCs	Benzoic acid	**UJ**
ROST3MW-ROX-101316	SVOCs	Benzenethiol	**UJ**
ROST3MW-ROX-101316	SVOCs	Benzoic acid	**UJ**
MW1-ROX-101316	SVOCs	Benzenethiol	**UJ**
MW1-ROX-101316	SVOCs	Benzoic acid	**UJ**
MW28-ROX-101316	SVOCs	Benzenethiol	**UJ**
MW28-ROX-101316	SVOCs	Benzoic acid	**UJ**
MW2-ROX-101316	SVOCs	Benzenethiol	**UJ**
MW2-ROX-101316	SVOCs	Benzoic acid	**UJ**
ROST4PZC-ROX-101316	SVOCs	Benzenethiol	**UJ**
ROST4PZC-ROX-101316	SVOCs	Benzoic acid	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW2-ROX-101316	SVOCs	2-Fluorophenol	**0.2**	10-120
MW2-ROX-101316	VOCs by 8011	4-Bromofluorobenzene	**199**	51-149
ROST4PZC-ROX-101316	SVOCs	2-Fluorophenol	**0.4**	10-120

Qualifications due to surrogate recoveries were not required due to only one of three acid fraction surrogate recoveries being outside evaluation criteria in samples MW2-ROX-101316 and ROST4PZC-ROX-101316. Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
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TestAmerica Job ID: 400-128726-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)
Revision: 2

For:
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12/6/2016 6:16:55 PM

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Reviewed 12/6/2016 MH

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128726-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128726-1

Receipt
The samples were received on 10/14/2016 8:56 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.0° C, 1.4° C, 2.3° C and 2.9° C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328230 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-328230 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101316-8260 (400-128726-2), MW9-ROX-101316 (400-128726-3), ROST3MW-ROX-101316 (400-128726-4), MW1-ROX-101316 (400-128726-5), MW28-ROX-101316 (400-128726-6), MW2-ROX101316 (400-128726-7) and ROST4PZC-ROX-101316 (400-128726-8). The requested target analyte list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which an acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 400-327859 recovered above the upper control limit for 2-Methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW9-ROX-101316 (400-128726-3), ROST3MW-ROX-101316 (400-128726-4), MW1-ROX-101316 (400-128726-5) and MW28-ROX-101316 (400-128726-6).

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-327625 and analytical batch 400-327859 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The following analyte recovered outside the control limits for the LCS/LCSD associated with preparation batch 400-327625 and analytical batch 400-327859: **Benzoic acid**. This is not indicative of a systematic control problem because these were random marginal exceedances. The marginal exceedance limit for a target list of this size (52) is 3 failures. The LCS contained a single compound recovering outside of the lab generated limits; therefore the data qualified with a non-conformence memo and the results have been reported.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 400-327625 recovered outside control limits for the following analytes: Dimethyl phthalate, Hexachloroethane, Nitrobenzene, Bis(2-chloroethyl)ether, 2,4,5-Trichlorophenol, 2,4,6-Tribromophenol, Phenol, 4-Chlorophenyl phenyl ether, 4-Chloro-3-methylphenol, 2,4-Dichlorophenol, 2-Chlorophenol, 1,4-Dioxane, 2,4-Dimethylphenol and 2-Nitrophenol.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW2-ROX101316 (400-128726-7) and ROST4PZC-ROX-101316 (400-128726-8). These results have been reported and qualified.

Method 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: ROST4PZC-ROX-101316 (400-128726-8). Elevated reporting limits (RLs) are provided.

GC Semi VOA
Method 8011: Surrogate recovery for the following sample was outside control limits: MW2-ROX101316 (400-128726-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 400-128726-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-327625.

Revision 1
This report has been revised per client request to elaborate further on Method 8270D recovery issues of Benzoic acid. Please see Method 8270D on previous page.

Revision 2
This report has been revised to correct the revised narrative's prep batch from 327483 to 327625.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128726-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128726-1	TB-ROX-101316-8011	Water	10/13/16 00:00	10/14/16 08:56
400-128726-2	TB-ROX-101316-8260	Water	10/13/16 00:00	10/14/16 08:56
400-128726-3	MW9-ROX-101316	Water	10/13/16 09:00	10/14/16 08:56
400-128726-4	ROST3MW-ROX-101316	Water	10/13/16 09:55	10/14/16 08:56
400-128726-5	MW1-ROX-101316	Water	10/13/16 11:00	10/14/16 08:56
400-128726-6	MW28-ROX-101316	Water	10/13/16 12:05	10/14/16 08:56
400-128726-7	MW2-ROX101316	Water	10/13/16 13:35	10/14/16 08:56
400-128726-8	ROST4PZC-ROX-101316	Water	10/13/16 14:45	10/14/16 08:56

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128726-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101316-8011 — Lab Sample ID: 400-128726-1

No Detections.

Client Sample ID: TB-ROX-101316-8260 — Lab Sample ID: 400-128726-2

No Detections.

Client Sample ID: MW9-ROX-101316 — Lab Sample ID: 400-128726-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.4		1.0	0.38	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.026	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	5.2	J	10	2.3	ug/L	1		8270D	Total/NA

Client Sample ID: ROST3MW-ROX-101316 — Lab Sample ID: 400-128726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	36		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.1		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	44		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	7.8		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	3.1		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	8.3		5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	1.6		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	22		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	3.2		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	53		10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.13	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Acenaphthylene	0.023	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.11	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.19	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	3.3		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	3.4		0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW1-ROX-101316 — Lab Sample ID: 400-128726-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.033	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.041	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW28-ROX-101316 — Lab Sample ID: 400-128726-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	25	10	ug/L	1		8260B	Total/NA
Benzene	6.6		1.0	0.38	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.3		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.1		1.0	0.74	ug/L	1		8260B	Total/NA
o-Xylene	1.1	J	5.0	0.60	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.057	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.034	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	3.2	J	9.8	2.2	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW2-ROX101316 — Lab Sample ID: 400-128726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	13	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	130		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	36		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	56		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	16		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	3.6		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	44		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	5.7		5.0	0.60	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	3.2		1.0	0.71	ug/L	1		8260B	Total/NA
sec-Butylbenzene	2.7		1.0	0.70	ug/L	1		8260B	Total/NA
Toluene	10		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	17		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	44		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	61		10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	8.8		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	9.5		0.19	0.019	ug/L	1		8270D LL	Total/NA

Client Sample ID: ROST4PZC-ROX-101316 — Lab Sample ID: 400-128726-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	25		2.0	0.76	ug/L	2		8260B	Total/NA
Ethylbenzene	89		2.0	1.0	ug/L	2		8260B	Total/NA
Isopropylbenzene	4.9		2.0	1.1	ug/L	2		8260B	Total/NA
m-Xylene & p-Xylene	260		10	3.2	ug/L	2		8260B	Total/NA
Naphthalene	87		2.0	2.0	ug/L	2		8260B	Total/NA
N-Propylbenzene	7.4		2.0	1.4	ug/L	2		8260B	Total/NA
o-Xylene	4.8	J	10	1.2	ug/L	2		8260B	Total/NA
Toluene	23		2.0	1.4	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene	39		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	10		2.0	1.1	ug/L	2		8260B	Total/NA
Xylenes, Total	270		20	3.2	ug/L	2		8260B	Total/NA
Acenaphthene	0.99		0.19	0.019	ug/L	1		8270D LL	Total/NA
Acenaphthylene	0.10	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Anthracene	0.048	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Fluorene	0.59		0.19	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.98		0.19	0.019	ug/L	1		8270D LL	Total/NA
Pyrene	0.023	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene - DL	57		0.96	0.096	ug/L	5		8270D LL	Total/NA
2-Methylnaphthalene - DL	63		0.96	0.096	ug/L	5		8270D LL	Total/NA
Dibenzofuran	0.83	J	9.6	0.50	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.74	J	9.6	0.67	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101316-8011

Date Collected: 10/13/16 00:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-1

Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/20/16 10:24	10/20/16 18:24	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/20/16 10:24	10/20/16 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*10/20/16 10:24*	*10/20/16 18:24*	*1*

Client Sample ID: TB-ROX-101316-8260

Date Collected: 10/13/16 00:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 21:52	1
Acrolein	ND		20	10	ug/L			10/25/16 21:52	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 21:52	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 21:52	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 21:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 21:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 21:52	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 21:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 21:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 21:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 21:52	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 21:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 21:52	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 21:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 21:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 21:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 21:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 21:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 21:52	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 21:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 21:52	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 21:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 21:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 21:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 21:52	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 21:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 21:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 21:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 21:52	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 21:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 21:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 21:52	1

Client Sample ID: TB-ROX-101316-8260
Date Collected: 10/13/16 00:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 21:52	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 21:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 21:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 21:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 21:52	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 21:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 21:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 21:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 21:52	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 21:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 21:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 21:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 21:52	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 21:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 21:52	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/25/16 21:52*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 21:52*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/25/16 21:52*	*1*

Client Sample ID: MW9-ROX-101316

Date Collected: 10/13/16 09:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 23:47	1
Acrolein	ND		20	10	ug/L			10/25/16 23:47	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 23:47	1
Benzene	**2.4**		1.0	0.38	ug/L			10/25/16 23:47	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 23:47	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 23:47	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 23:47	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 23:47	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 23:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 23:47	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 23:47	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 23:47	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 23:47	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 23:47	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:47	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 23:47	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 23:47	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 23:47	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 23:47	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 23:47	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 23:47	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 23:47	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 23:47	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 23:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 23:47	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 23:47	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 23:47	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 23:47	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 23:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 23:47	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 23:47	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 23:47	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 23:47	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 23:47	1

Client Sample ID: MW9-ROX-101316

Date Collected: 10/13/16 09:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 23:47	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 23:47	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 23:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 23:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 23:47	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 23:47	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 23:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 23:47	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:47	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 23:47	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 23:47	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 23:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 23:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 23:47	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 23:47	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 23:47	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/25/16 23:47*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*10/25/16 23:47*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/25/16 23:47*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
Anthracene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Chrysene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
Fluorene	ND		0.20	0.021	ug/L		10/20/16 15:34	10/21/16 16:49	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 16:49	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
Pyrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1
2-Methylnaphthalene	**0.026**	**J**	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*54*		*33 - 138*	*10/20/16 15:34*	*10/21/16 16:49*	*1*
2-Fluorobiphenyl	*62*		*15 - 122*	*10/20/16 15:34*	*10/21/16 16:49*	*1*

Client Sample ID: MW9-ROX-101316

Date Collected: 10/13/16 09:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	53		19 - 130	10/20/16 15:34	10/21/16 16:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/16 15:34	10/22/16 21:59	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/20/16 15:34	10/22/16 21:59	1
Benzoic acid	ND	UJ	30	7.3	ug/L		10/20/16 15:34	10/22/16 21:59	1
Benzyl alcohol	ND	*	10	2.0	ug/L		10/20/16 15:34	10/24/16 16:29	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 21:59	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/16 15:34	10/22/16 21:59	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/16 15:34	10/22/16 21:59	1
Bis(2-ethylhexyl) phthalate	**5.2**	**J**	10	2.3	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/16 15:34	10/22/16 21:59	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/16 15:34	10/22/16 21:59	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 21:59	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 21:59	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 21:59	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/16 15:34	10/22/16 21:59	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/16 15:34	10/22/16 21:59	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 21:59	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/16 15:34	10/22/16 21:59	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/16 15:34	10/22/16 21:59	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/16 15:34	10/22/16 21:59	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/16 15:34	10/22/16 21:59	1
Indene	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
Isophorone	ND		10	0.57	ug/L		10/20/16 15:34	10/22/16 21:59	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 21:59	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/16 15:34	10/22/16 21:59	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/16 15:34	10/22/16 21:59	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/16 15:34	10/22/16 21:59	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/16 15:34	10/22/16 21:59	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/16 15:34	10/22/16 21:59	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 21:59	1

Client Sample ID: MW9-ROX-101316

Date Collected: 10/13/16 09:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/16 15:34	10/22/16 21:59	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/16 15:34	10/22/16 21:59	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/16 15:34	10/22/16 21:59	1
Phenol	ND		10	2.6	ug/L		10/20/16 15:34	10/22/16 21:59	1
Pyridine	ND		10	3.2	ug/L		10/20/16 15:34	10/22/16 21:59	1
Quinoline	ND		10	6.0	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/16 15:34	10/22/16 21:59	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/20/16 15:34*	*10/22/16 21:59*	*1*
2-Fluorophenol	*45*		*10 - 120*	*10/20/16 15:34*	*10/22/16 21:59*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/20/16 15:34*	*10/22/16 21:59*	*1*
Phenol-d5	*61*		*10 - 120*	*10/20/16 15:34*	*10/22/16 21:59*	*1*
Terphenyl-d14	*77*		*53 - 125*	*10/20/16 15:34*	*10/22/16 21:59*	*1*
2,4,6-Tribromophenol	*82*		*15 - 135*	*10/20/16 15:34*	*10/22/16 21:59*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/20/16 10:24	10/20/16 18:54	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/20/16 10:24	10/20/16 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*135*		*51 - 149*	*10/20/16 10:24*	*10/20/16 18:54*	*1*

Client Sample ID: ROST3MW-ROX-101316

Date Collected: 10/13/16 09:55
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/26/16 00:10	1
Acrolein	ND		20	10	ug/L			10/26/16 00:10	1
Acrylonitrile	ND		10	2.8	ug/L			10/26/16 00:10	1
Benzene	ND		1.0	0.38	ug/L			10/26/16 00:10	1
Bromobenzene	ND		1.0	0.54	ug/L			10/26/16 00:10	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/26/16 00:10	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Bromoform	ND		5.0	0.71	ug/L			10/26/16 00:10	1
Bromomethane	ND		1.0	0.98	ug/L			10/26/16 00:10	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/26/16 00:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Chloroethane	ND		1.0	0.76	ug/L			10/26/16 00:10	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/26/16 00:10	1
Chloroform	ND		1.0	0.60	ug/L			10/26/16 00:10	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/26/16 00:10	1
Chloromethane	ND		1.0	0.83	ug/L			10/26/16 00:10	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:10	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/26/16 00:10	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/26/16 00:10	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/26/16 00:10	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Ethylbenzene	**36**		1.0	0.50	ug/L			10/26/16 00:10	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/26/16 00:10	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/26/16 00:10	1
2-Hexanone	ND		25	3.1	ug/L			10/26/16 00:10	1
Isopropylbenzene	**2.1**		1.0	0.53	ug/L			10/26/16 00:10	1
Methylene bromide	ND		5.0	0.59	ug/L			10/26/16 00:10	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/26/16 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/26/16 00:10	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/26/16 00:10	1
m-Xylene & p-Xylene	**44**		5.0	1.6	ug/L			10/26/16 00:10	1
Naphthalene	**7.8**		1.0	1.0	ug/L			10/26/16 00:10	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/26/16 00:10	1
N-Propylbenzene	**3.1**		1.0	0.69	ug/L			10/26/16 00:10	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/26/16 00:10	1
o-Xylene	**8.3**		5.0	0.60	ug/L			10/26/16 00:10	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/26/16 00:10	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/26/16 00:10	1

Client Sample ID: ROST3MW-ROX-101316

Date Collected: 10/13/16 09:55
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/26/16 00:10	1
Styrene	ND		1.0	1.0	ug/L			10/26/16 00:10	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/26/16 00:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/26/16 00:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/26/16 00:10	1
Toluene	**1.6**		1.0	0.70	ug/L			10/26/16 00:10	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/26/16 00:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/26/16 00:10	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:10	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/26/16 00:10	1
Trichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/26/16 00:10	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/26/16 00:10	1
1,2,4-Trimethylbenzene	**22**		1.0	0.82	ug/L			10/26/16 00:10	1
1,3,5-Trimethylbenzene	**3.2**		1.0	0.56	ug/L			10/26/16 00:10	1
Vinyl acetate	ND		25	2.0	ug/L			10/26/16 00:10	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/26/16 00:10	1
Xylenes, Total	**53**		10	1.6	ug/L			10/26/16 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/26/16 00:10*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/26/16 00:10*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/26/16 00:10*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.13**	**J**	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Acenaphthylene	**0.023**	**J**	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Anthracene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Chrysene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Fluorene	**0.11**	**J**	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:12	1
Phenanthrene	**0.19**	**J**	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
Pyrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
1-Methylnaphthalene	**3.3**		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1
2-Methylnaphthalene	**3.4**		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*54*		*33 - 138*	*10/20/16 15:34*	*10/21/16 17:12*	*1*
2-Fluorobiphenyl	*57*		*15 - 122*	*10/20/16 15:34*	*10/21/16 17:12*	*1*

Client Sample ID: ROST3MW-ROX-101316

Date Collected: 10/13/16 09:55
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*53*		*19 - 130*	*10/20/16 15:34*	*10/21/16 17:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/20/16 15:34	10/22/16 22:32	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/20/16 15:34	10/22/16 22:32	1
Benzoic acid	ND	UJ	29	7.1	ug/L		10/20/16 15:34	10/22/16 22:32	1
Benzyl alcohol	ND	*	9.8	2.0	ug/L		10/20/16 15:34	10/24/16 17:02	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/20/16 15:34	10/22/16 22:32	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/20/16 15:34	10/22/16 22:32	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/20/16 15:34	10/22/16 22:32	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/20/16 15:34	10/22/16 22:32	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/20/16 15:34	10/22/16 22:32	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/20/16 15:34	10/22/16 22:32	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 22:32	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/20/16 15:34	10/22/16 22:32	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/20/16 15:34	10/22/16 22:32	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/20/16 15:34	10/22/16 22:32	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 22:32	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/20/16 15:34	10/22/16 22:32	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/20/16 15:34	10/22/16 22:32	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/20/16 15:34	10/22/16 22:32	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/20/16 15:34	10/22/16 22:32	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 22:32	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 22:32	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/20/16 15:34	10/22/16 22:32	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/20/16 15:34	10/22/16 22:32	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/20/16 15:34	10/22/16 22:32	1
Indene	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 22:32	1
Isophorone	ND		9.8	0.56	ug/L		10/20/16 15:34	10/22/16 22:32	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/20/16 15:34	10/22/16 22:32	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/16 15:34	10/22/16 22:32	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/20/16 15:34	10/22/16 22:32	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/20/16 15:34	10/22/16 22:32	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/20/16 15:34	10/22/16 22:32	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/20/16 15:34	10/22/16 22:32	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 22:32	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 22:32	1

Client Sample ID: ROST3MW-ROX-101316

Date Collected: 10/13/16 09:55
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/20/16 15:34	10/22/16 22:32	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/20/16 15:34	10/22/16 22:32	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/16 15:34	10/22/16 22:32	1
Phenol	ND		9.8	2.5	ug/L		10/20/16 15:34	10/22/16 22:32	1
Pyridine	ND		9.8	3.1	ug/L		10/20/16 15:34	10/22/16 22:32	1
Quinoline	ND		9.8	5.9	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/20/16 15:34	10/22/16 22:32	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 120*	*10/20/16 15:34*	*10/22/16 22:32*	*1*
2-Fluorophenol	*43*		*10 - 120*	*10/20/16 15:34*	*10/22/16 22:32*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*10/20/16 15:34*	*10/22/16 22:32*	*1*
Phenol-d5	*52*		*10 - 120*	*10/20/16 15:34*	*10/22/16 22:32*	*1*
Terphenyl-d14	*68*		*53 - 125*	*10/20/16 15:34*	*10/22/16 22:32*	*1*
2,4,6-Tribromophenol	*81*		*15 - 135*	*10/20/16 15:34*	*10/22/16 22:32*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/20/16 10:24	10/20/16 19:24	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:24	10/20/16 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*10/20/16 10:24*	*10/20/16 19:24*	*1*

Client Sample ID: MW1-ROX-101316

Date Collected: 10/13/16 11:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/26/16 00:33	1
Acrolein	ND		20	10	ug/L			10/26/16 00:33	1
Acrylonitrile	ND		10	2.8	ug/L			10/26/16 00:33	1
Benzene	ND		1.0	0.38	ug/L			10/26/16 00:33	1
Bromobenzene	ND		1.0	0.54	ug/L			10/26/16 00:33	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/26/16 00:33	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Bromoform	ND		5.0	0.71	ug/L			10/26/16 00:33	1
Bromomethane	ND		1.0	0.98	ug/L			10/26/16 00:33	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/26/16 00:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Chloroethane	ND		1.0	0.76	ug/L			10/26/16 00:33	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/26/16 00:33	1
Chloroform	ND		1.0	0.60	ug/L			10/26/16 00:33	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/26/16 00:33	1
Chloromethane	ND		1.0	0.83	ug/L			10/26/16 00:33	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:33	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/26/16 00:33	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/26/16 00:33	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/26/16 00:33	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/26/16 00:33	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/26/16 00:33	1
2-Hexanone	ND		25	3.1	ug/L			10/26/16 00:33	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/26/16 00:33	1
Methylene bromide	ND		5.0	0.59	ug/L			10/26/16 00:33	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/26/16 00:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/26/16 00:33	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/26/16 00:33	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/26/16 00:33	1
Naphthalene	ND		1.0	1.0	ug/L			10/26/16 00:33	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/26/16 00:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/16 00:33	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/26/16 00:33	1
o-Xylene	ND		5.0	0.60	ug/L			10/26/16 00:33	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/26/16 00:33	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/26/16 00:33	1

Client Sample ID: MW1-ROX-101316

Date Collected: 10/13/16 11:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/26/16 00:33	1
Styrene	ND		1.0	1.0	ug/L			10/26/16 00:33	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/26/16 00:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/26/16 00:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/26/16 00:33	1
Toluene	ND		1.0	0.70	ug/L			10/26/16 00:33	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/26/16 00:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/26/16 00:33	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:33	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/26/16 00:33	1
Trichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/26/16 00:33	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/26/16 00:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/26/16 00:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/26/16 00:33	1
Vinyl acetate	ND		25	2.0	ug/L			10/26/16 00:33	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/26/16 00:33	1
Xylenes, Total	ND		10	1.6	ug/L			10/26/16 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/26/16 00:33*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*10/26/16 00:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/26/16 00:33*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
Anthracene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Chrysene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
Fluorene	ND		0.20	0.021	ug/L		10/20/16 15:34	10/21/16 17:35	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 17:35	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
Pyrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
1-Methylnaphthalene	**0.033**	J	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1
2-Methylnaphthalene	**0.041**	J	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*59*		*33 - 138*	*10/20/16 15:34*	*10/21/16 17:35*	*1*
2-Fluorobiphenyl	*67*		*15 - 122*	*10/20/16 15:34*	*10/21/16 17:35*	*1*

Client Sample ID: MW1-ROX-101316

Date Collected: 10/13/16 11:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		19 - 130	10/20/16 15:34	10/21/16 17:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/16 15:34	10/22/16 23:04	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/20/16 15:34	10/22/16 23:04	1
Benzoic acid	ND	* UJ	30	7.3	ug/L		10/20/16 15:34	10/22/16 23:04	1
Benzyl alcohol	ND	*	10	2.0	ug/L		10/20/16 15:34	10/24/16 17:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 23:04	1
Bis(2-chloroethyl)ether	ND	*	10	0.74	ug/L		10/20/16 15:34	10/22/16 23:04	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/16 15:34	10/22/16 23:04	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/16 15:34	10/22/16 23:04	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Chloro-3-methylphenol	ND	*	10	3.8	ug/L		10/20/16 15:34	10/22/16 23:04	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 23:04	1
2-Chlorophenol	ND	*	10	2.2	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Chlorophenyl phenyl ether	ND	*	10	2.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 23:04	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4-Dichlorophenol	ND	*	10	3.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4-Dimethylphenol	ND	*	10	3.5	ug/L		10/20/16 15:34	10/22/16 23:04	1
Dimethyl phthalate	ND	*	10	0.60	ug/L		10/20/16 15:34	10/22/16 23:04	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/16 15:34	10/22/16 23:04	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 23:04	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/16 15:34	10/22/16 23:04	1
1,4-Dioxane	ND	*	10	1.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/16 15:34	10/22/16 23:04	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/16 15:34	10/22/16 23:04	1
Hexachloroethane	ND	*	10	4.2	ug/L		10/20/16 15:34	10/22/16 23:04	1
Indene	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
Isophorone	ND		10	0.57	ug/L		10/20/16 15:34	10/22/16 23:04	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 23:04	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/16 15:34	10/22/16 23:04	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/16 15:34	10/22/16 23:04	1
Nitrobenzene	ND	*	10	0.55	ug/L		10/20/16 15:34	10/22/16 23:04	1
2-Nitrophenol	ND	*	10	0.65	ug/L		10/20/16 15:34	10/22/16 23:04	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/16 15:34	10/22/16 23:04	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 23:04	1

Client Sample ID: MW1-ROX-101316

Date Collected: 10/13/16 11:00
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/16 15:34	10/22/16 23:04	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/16 15:34	10/22/16 23:04	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/16 15:34	10/22/16 23:04	1
Phenol	ND	*	10	2.6	ug/L		10/20/16 15:34	10/22/16 23:04	1
Pyridine	ND		10	3.2	ug/L		10/20/16 15:34	10/22/16 23:04	1
Quinoline	ND		10	6.0	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4,5-Trichlorophenol	ND	*	10	3.7	ug/L		10/20/16 15:34	10/22/16 23:04	1
2,4,6-Trichlorophenol	ND	*	10	3.5	ug/L		10/20/16 15:34	10/22/16 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/20/16 15:34*	*10/22/16 23:04*	*1*
2-Fluorophenol	*38*		*10 - 120*	*10/20/16 15:34*	*10/22/16 23:04*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/20/16 15:34*	*10/22/16 23:04*	*1*
Phenol-d5	*59*		*10 - 120*	*10/20/16 15:34*	*10/22/16 23:04*	*1*
Terphenyl-d14	*76*		*53 - 125*	*10/20/16 15:34*	*10/22/16 23:04*	*1*
2,4,6-Tribromophenol	*82*		*15 - 135*	*10/20/16 15:34*	*10/22/16 23:04*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/20/16 10:24	10/20/16 19:54	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:24	10/20/16 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*138*		*51 - 149*	*10/20/16 10:24*	*10/20/16 19:54*	*1*

Client Sample ID: MW28-ROX-101316

Date Collected: 10/13/16 12:05
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**10**	**J**	25	10	ug/L			10/26/16 00:56	1
Acrolein	ND		20	10	ug/L			10/26/16 00:56	1
Acrylonitrile	ND		10	2.8	ug/L			10/26/16 00:56	1
Benzene	**6.6**		1.0	0.38	ug/L			10/26/16 00:56	1
Bromobenzene	ND		1.0	0.54	ug/L			10/26/16 00:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/26/16 00:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Bromoform	ND		5.0	0.71	ug/L			10/26/16 00:56	1
Bromomethane	ND		1.0	0.98	ug/L			10/26/16 00:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/26/16 00:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Chloroethane	ND		1.0	0.76	ug/L			10/26/16 00:56	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/26/16 00:56	1
Chloroform	ND		1.0	0.60	ug/L			10/26/16 00:56	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/26/16 00:56	1
Chloromethane	ND		1.0	0.83	ug/L			10/26/16 00:56	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/26/16 00:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/26/16 00:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/26/16 00:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/26/16 00:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/26/16 00:56	1
2-Hexanone	ND		25	3.1	ug/L			10/26/16 00:56	1
Isopropylbenzene	**2.3**		1.0	0.53	ug/L			10/26/16 00:56	1
Methylene bromide	ND		5.0	0.59	ug/L			10/26/16 00:56	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/26/16 00:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/26/16 00:56	1
Methyl tert-butyl ether	**1.1**		1.0	0.74	ug/L			10/26/16 00:56	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/26/16 00:56	1
Naphthalene	ND		1.0	1.0	ug/L			10/26/16 00:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/26/16 00:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/16 00:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/26/16 00:56	1
o-Xylene	**1.1**	**J**	5.0	0.60	ug/L			10/26/16 00:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/26/16 00:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/26/16 00:56	1

Client Sample ID: MW28-ROX-101316

Date Collected: 10/13/16 12:05
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/26/16 00:56	1
Styrene	ND		1.0	1.0	ug/L			10/26/16 00:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/26/16 00:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/26/16 00:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/26/16 00:56	1
Toluene	ND		1.0	0.70	ug/L			10/26/16 00:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 00:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/26/16 00:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/26/16 00:56	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/26/16 00:56	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/26/16 00:56	1
Trichloroethene	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/26/16 00:56	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/26/16 00:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/26/16 00:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/26/16 00:56	1
Vinyl acetate	ND		25	2.0	ug/L			10/26/16 00:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/26/16 00:56	1
Xylenes, Total	ND		10	1.6	ug/L			10/26/16 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/26/16 00:56*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/26/16 00:56*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/26/16 00:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Anthracene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Chrysene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Fluorene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/20/16 15:34	10/21/16 17:58	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
Pyrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
1-Methylnaphthalene	**0.057**	J	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1
2-Methylnaphthalene	**0.034**	J	0.20	0.020	ug/L		10/20/16 15:34	10/21/16 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*33 - 138*	*10/20/16 15:34*	*10/21/16 17:58*	*1*
2-Fluorobiphenyl	*67*		*15 - 122*	*10/20/16 15:34*	*10/21/16 17:58*	*1*

Client Sample ID: MW28-ROX-101316

Date Collected: 10/13/16 12:05
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-6

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*62*		*19 - 130*	*10/20/16 15:34*	*10/21/16 17:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/20/16 15:34	10/22/16 23:37	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/20/16 15:34	10/22/16 23:37	1
Benzoic acid	ND	UJ	29	7.1	ug/L		10/20/16 15:34	10/22/16 23:37	1
Benzyl alcohol	ND	*	9.8	2.0	ug/L		10/20/16 15:34	10/24/16 18:09	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/20/16 15:34	10/22/16 23:37	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/20/16 15:34	10/22/16 23:37	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/20/16 15:34	10/22/16 23:37	1
Bis(2-ethylhexyl) phthalate	**3.2**	**J**	9.8	2.2	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/20/16 15:34	10/22/16 23:37	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/20/16 15:34	10/22/16 23:37	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/20/16 15:34	10/22/16 23:37	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 23:37	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/20/16 15:34	10/22/16 23:37	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/20/16 15:34	10/22/16 23:37	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/20/16 15:34	10/22/16 23:37	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 23:37	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/20/16 15:34	10/22/16 23:37	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/20/16 15:34	10/22/16 23:37	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/20/16 15:34	10/22/16 23:37	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/20/16 15:34	10/22/16 23:37	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 23:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 23:37	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/20/16 15:34	10/22/16 23:37	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/20/16 15:34	10/22/16 23:37	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/20/16 15:34	10/22/16 23:37	1
Indene	ND		9.8	0.98	ug/L		10/20/16 15:34	10/22/16 23:37	1
Isophorone	ND		9.8	0.56	ug/L		10/20/16 15:34	10/22/16 23:37	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/20/16 15:34	10/22/16 23:37	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/16 15:34	10/22/16 23:37	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/20/16 15:34	10/22/16 23:37	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/20/16 15:34	10/22/16 23:37	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/20/16 15:34	10/22/16 23:37	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/20/16 15:34	10/22/16 23:37	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/20/16 15:34	10/22/16 23:37	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 23:37	1

Client Sample ID: MW28-ROX-101316

Date Collected: 10/13/16 12:05
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/20/16 15:34	10/22/16 23:37	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/20/16 15:34	10/22/16 23:37	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/16 15:34	10/22/16 23:37	1
Phenol	ND		9.8	2.5	ug/L		10/20/16 15:34	10/22/16 23:37	1
Pyridine	ND		9.8	3.1	ug/L		10/20/16 15:34	10/22/16 23:37	1
Quinoline	ND		9.8	5.9	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/20/16 15:34	10/22/16 23:37	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/20/16 15:34	10/22/16 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/20/16 15:34*	*10/22/16 23:37*	*1*
2-Fluorophenol	*39*		*10 - 120*	*10/20/16 15:34*	*10/22/16 23:37*	*1*
Nitrobenzene-d5	*79*		*27 - 120*	*10/20/16 15:34*	*10/22/16 23:37*	*1*
Phenol-d5	*62*		*10 - 120*	*10/20/16 15:34*	*10/22/16 23:37*	*1*
Terphenyl-d14	*86*		*53 - 125*	*10/20/16 15:34*	*10/22/16 23:37*	*1*
2,4,6-Tribromophenol	*99*		*15 - 135*	*10/20/16 15:34*	*10/22/16 23:37*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:24	10/20/16 20:23	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:24	10/20/16 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*10/20/16 10:24*	*10/20/16 20:23*	*1*

Client Sample ID: MW2-ROX101316

Date Collected: 10/13/16 13:35
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/26/16 01:21	1
Acrolein	ND		20	10	ug/L			10/26/16 01:21	1
Acrylonitrile	ND		10	2.8	ug/L			10/26/16 01:21	1
Benzene	**13**		1.0	0.38	ug/L			10/26/16 01:21	1
Bromobenzene	ND		1.0	0.54	ug/L			10/26/16 01:21	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/26/16 01:21	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Bromoform	ND		5.0	0.71	ug/L			10/26/16 01:21	1
Bromomethane	ND		1.0	0.98	ug/L			10/26/16 01:21	1
2-Butanone (MEK)	**13**	**J**	25	2.6	ug/L			10/26/16 01:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Chloroethane	ND		1.0	0.76	ug/L			10/26/16 01:21	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/26/16 01:21	1
Chloroform	ND		1.0	0.60	ug/L			10/26/16 01:21	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/26/16 01:21	1
Chloromethane	ND		1.0	0.83	ug/L			10/26/16 01:21	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 01:21	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/26/16 01:21	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/26/16 01:21	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/26/16 01:21	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Ethylbenzene	**130**		1.0	0.50	ug/L			10/26/16 01:21	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/26/16 01:21	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/26/16 01:21	1
2-Hexanone	ND		25	3.1	ug/L			10/26/16 01:21	1
Isopropylbenzene	**36**		1.0	0.53	ug/L			10/26/16 01:21	1
Methylene bromide	ND		5.0	0.59	ug/L			10/26/16 01:21	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/26/16 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/26/16 01:21	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/26/16 01:21	1
m-Xylene & p-Xylene	**56**		5.0	1.6	ug/L			10/26/16 01:21	1
Naphthalene	**16**		1.0	1.0	ug/L			10/26/16 01:21	1
n-Butylbenzene	**3.6**		1.0	0.76	ug/L			10/26/16 01:21	1
N-Propylbenzene	**44**		1.0	0.69	ug/L			10/26/16 01:21	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/26/16 01:21	1
o-Xylene	**5.7**		5.0	0.60	ug/L			10/26/16 01:21	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/26/16 01:21	1
p-Isopropyltoluene	**3.2**		1.0	0.71	ug/L			10/26/16 01:21	1

Client Sample ID: MW2-ROX101316
Date Collected: 10/13/16 13:35
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**2.7**		1.0	0.70	ug/L			10/26/16 01:21	1
Styrene	ND		1.0	1.0	ug/L			10/26/16 01:21	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/26/16 01:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/26/16 01:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/26/16 01:21	1
Toluene	**10**		1.0	0.70	ug/L			10/26/16 01:21	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/26/16 01:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/26/16 01:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/26/16 01:21	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/26/16 01:21	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/26/16 01:21	1
Trichloroethene	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/26/16 01:21	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/26/16 01:21	1
1,2,4-Trimethylbenzene	**17**		1.0	0.82	ug/L			10/26/16 01:21	1
1,3,5-Trimethylbenzene	**44**		1.0	0.56	ug/L			10/26/16 01:21	1
Vinyl acetate	ND		25	2.0	ug/L			10/26/16 01:21	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/26/16 01:21	1
Xylenes, Total	**61**		10	1.6	ug/L			10/26/16 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/26/16 01:21*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/26/16 01:21*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/26/16 01:21*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
Acenaphthylene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
Anthracene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
Benzo[a]anthracene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Benzo[a]pyrene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Benzo[b]fluoranthene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Benzo[g,h,i]perylene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Benzo[k]fluoranthene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Chrysene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Dibenz(a,h)anthracene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Fluoranthene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
Fluorene	ND		0.19	0.020	ug/L		10/20/16 15:34	10/21/16 18:21	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.039	ug/L		10/20/16 15:34	10/21/16 18:21	1
Phenanthrene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
Pyrene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
1-Methylnaphthalene	**8.8**		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1
2-Methylnaphthalene	**9.5**		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*63*		*33 - 138*	*10/20/16 15:34*	*10/21/16 18:21*	*1*
2-Fluorobiphenyl	*68*		*15 - 122*	*10/20/16 15:34*	*10/21/16 18:21*	*1*

Client Sample ID: MW2-ROX101316

Date Collected: 10/13/16 13:35
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*61*		*19 - 130*	*10/20/16 15:34*	*10/21/16 18:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	3.7	ug/L		10/20/16 15:34	10/24/16 13:08	1
Benzenethiol	ND		9.7	1.7	ug/L		10/20/16 15:34	10/24/16 13:08	1
Benzoic acid	ND	* UJ	29	7.1	ug/L		10/20/16 15:34	10/24/16 13:08	1
Benzyl alcohol	ND	* UJ	9.7	1.9	ug/L		10/20/16 15:34	10/24/16 13:08	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		10/20/16 15:34	10/24/16 13:08	1
Bis(2-chloroethyl)ether	ND	*	9.7	0.72	ug/L		10/20/16 15:34	10/24/16 13:08	1
bis (2-chloroisopropyl) ether	ND		9.7	0.79	ug/L		10/20/16 15:34	10/24/16 13:08	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.2	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		10/20/16 15:34	10/24/16 13:08	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Chloroaniline	ND		9.7	3.3	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Chloro-3-methylphenol	ND	*	9.7	3.7	ug/L		10/20/16 15:34	10/24/16 13:08	1
2-Chloronaphthalene	ND		9.7	0.50	ug/L		10/20/16 15:34	10/24/16 13:08	1
2-Chlorophenol	ND	*	9.7	2.1	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Chlorophenyl phenyl ether	ND	*	9.7	1.9	ug/L		10/20/16 15:34	10/24/16 13:08	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		10/20/16 15:34	10/24/16 13:08	1
Dibenzofuran	ND		9.7	0.50	ug/L		10/20/16 15:34	10/24/16 13:08	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4-Dichlorophenol	ND	*	9.7	2.9	ug/L		10/20/16 15:34	10/24/16 13:08	1
Diethyl phthalate	ND		9.7	0.68	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4-Dimethylphenol	ND	*	9.7	3.4	ug/L		10/20/16 15:34	10/24/16 13:08	1
Dimethyl phthalate	ND	*	9.7	0.58	ug/L		10/20/16 15:34	10/24/16 13:08	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		10/20/16 15:34	10/24/16 13:08	1
4,6-Dinitro-ortho-cresol	ND		9.7	1.9	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		10/20/16 15:34	10/24/16 13:08	1
Di-n-octyl phthalate	ND		9.7	0.43	ug/L		10/20/16 15:34	10/24/16 13:08	1
1,4-Dioxane	ND	*	9.7	0.97	ug/L		10/20/16 15:34	10/24/16 13:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		10/20/16 15:34	10/24/16 13:08	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		10/20/16 15:34	10/24/16 13:08	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		10/20/16 15:34	10/24/16 13:08	1
Hexachloroethane	ND	*	9.7	4.1	ug/L		10/20/16 15:34	10/24/16 13:08	1
Indene	ND		9.7	0.97	ug/L		10/20/16 15:34	10/24/16 13:08	1
Isophorone	ND		9.7	0.55	ug/L		10/20/16 15:34	10/24/16 13:08	1
2-Methylphenol	ND		9.7	1.7	ug/L		10/20/16 15:34	10/24/16 13:08	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		10/20/16 15:34	10/24/16 13:08	1
2-Nitroaniline	ND		9.7	2.1	ug/L		10/20/16 15:34	10/24/16 13:08	1
3-Nitroaniline	ND		9.7	1.7	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Nitroaniline	ND		9.7	2.4	ug/L		10/20/16 15:34	10/24/16 13:08	1
Nitrobenzene	ND	*	9.7	0.53	ug/L		10/20/16 15:34	10/24/16 13:08	1
2-Nitrophenol	ND	*	9.7	0.63	ug/L		10/20/16 15:34	10/24/16 13:08	1
4-Nitrophenol	ND		9.7	2.0	ug/L		10/20/16 15:34	10/24/16 13:08	1
N-Nitrosodimethylamine	ND		9.7	3.4	ug/L		10/20/16 15:34	10/24/16 13:08	1

Client Sample ID: MW2-ROX101316

Date Collected: 10/13/16 13:35
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.7	3.2	ug/L		10/20/16 15:34	10/24/16 13:08	1
N-Nitrosodiphenylamine	ND		9.7	0.46	ug/L		10/20/16 15:34	10/24/16 13:08	1
Pentachlorophenol	ND		19	1.8	ug/L		10/20/16 15:34	10/24/16 13:08	1
Phenol	ND	*	9.7	2.5	ug/L		10/20/16 15:34	10/24/16 13:08	1
Pyridine	ND		9.7	3.1	ug/L		10/20/16 15:34	10/24/16 13:08	1
Quinoline	ND		9.7	5.8	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4,5-Trichlorophenol	ND	*	9.7	3.6	ug/L		10/20/16 15:34	10/24/16 13:08	1
2,4,6-Trichlorophenol	ND	*	9.7	3.4	ug/L		10/20/16 15:34	10/24/16 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/20/16 15:34*	*10/24/16 13:08*	*1*
2-Fluorophenol	*0.2*	*X*	*10 - 120*	*10/20/16 15:34*	*10/24/16 13:08*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*10/20/16 15:34*	*10/24/16 13:08*	*1*
Phenol-d5	*45*		*10 - 120*	*10/20/16 15:34*	*10/24/16 13:08*	*1*
Terphenyl-d14	*63*		*53 - 125*	*10/20/16 15:34*	*10/24/16 13:08*	*1*
2,4,6-Tribromophenol	*61*		*15 - 135*	*10/20/16 15:34*	*10/24/16 13:08*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:24	10/20/16 20:53	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:24	10/20/16 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*199*	*X*	*51 - 149*	*10/20/16 10:24*	*10/20/16 20:53*	*1*

Client Sample ID: ROST4PZC-ROX-101316

Date Collected: 10/13/16 14:45
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	20	ug/L			10/26/16 02:53	2
Acrolein	ND		40	20	ug/L			10/26/16 02:53	2
Acrylonitrile	ND		20	5.6	ug/L			10/26/16 02:53	2
Benzene	**25**		2.0	0.76	ug/L			10/26/16 02:53	2
Bromobenzene	ND		2.0	1.1	ug/L			10/26/16 02:53	2
Bromochloromethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Bromodichloromethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Bromoform	ND		10	1.4	ug/L			10/26/16 02:53	2
Bromomethane	ND		2.0	2.0	ug/L			10/26/16 02:53	2
2-Butanone (MEK)	ND		50	5.2	ug/L			10/26/16 02:53	2
Carbon disulfide	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Chlorobenzene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Dibromochloromethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Chloroethane	ND		2.0	1.5	ug/L			10/26/16 02:53	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			10/26/16 02:53	2
Chloroform	ND		2.0	1.2	ug/L			10/26/16 02:53	2
1-Chlorohexane	ND		2.0	1.4	ug/L			10/26/16 02:53	2
Chloromethane	ND		2.0	1.7	ug/L			10/26/16 02:53	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			10/26/16 02:53	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			10/26/16 02:53	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			10/26/16 02:53	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			10/26/16 02:53	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Ethylbenzene	**89**		2.0	1.0	ug/L			10/26/16 02:53	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			10/26/16 02:53	2
Hexachlorobutadiene	ND		10	1.8	ug/L			10/26/16 02:53	2
2-Hexanone	ND		50	6.2	ug/L			10/26/16 02:53	2
Isopropylbenzene	**4.9**		2.0	1.1	ug/L			10/26/16 02:53	2
Methylene bromide	ND		10	1.2	ug/L			10/26/16 02:53	2
Methylene Chloride	ND		10	6.0	ug/L			10/26/16 02:53	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			10/26/16 02:53	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			10/26/16 02:53	2
m-Xylene & p-Xylene	**260**		10	3.2	ug/L			10/26/16 02:53	2
Naphthalene	**87**		2.0	2.0	ug/L			10/26/16 02:53	2
n-Butylbenzene	ND		2.0	1.5	ug/L			10/26/16 02:53	2
N-Propylbenzene	**7.4**		2.0	1.4	ug/L			10/26/16 02:53	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			10/26/16 02:53	2
o-Xylene	**4.8**	J	10	1.2	ug/L			10/26/16 02:53	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			10/26/16 02:53	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			10/26/16 02:53	2

Client Sample ID: ROST4PZC-ROX-101316

Date Collected: 10/13/16 14:45
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.4	ug/L			10/26/16 02:53	2
Styrene	ND		2.0	2.0	ug/L			10/26/16 02:53	2
tert-Butylbenzene	ND		2.0	1.3	ug/L			10/26/16 02:53	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Tetrachloroethene	ND		2.0	1.2	ug/L			10/26/16 02:53	2
Toluene	**23**		2.0	1.4	ug/L			10/26/16 02:53	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			10/26/16 02:53	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			10/26/16 02:53	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			10/26/16 02:53	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			10/26/16 02:53	2
Trichloroethene	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			10/26/16 02:53	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			10/26/16 02:53	2
1,2,4-Trimethylbenzene	**39**		2.0	1.6	ug/L			10/26/16 02:53	2
1,3,5-Trimethylbenzene	**10**		2.0	1.1	ug/L			10/26/16 02:53	2
Vinyl acetate	ND		50	4.0	ug/L			10/26/16 02:53	2
Vinyl chloride	ND		2.0	1.0	ug/L			10/26/16 02:53	2
Xylenes, Total	**270**		20	3.2	ug/L			10/26/16 02:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/26/16 02:53*	*2*
Dibromofluoromethane	*102*		*81 - 121*		*10/26/16 02:53*	*2*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/26/16 02:53*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.99**		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1
Acenaphthylene	**0.10**	J	0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1
Anthracene	**0.048**	J	0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Chrysene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Fluoranthene	ND		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1
Fluorene	**0.59**		0.19	0.020	ug/L		10/20/16 15:34	10/21/16 18:44	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		10/20/16 15:34	10/21/16 18:44	1
Phenanthrene	**0.98**		0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1
Pyrene	**0.023**	J	0.19	0.019	ug/L		10/20/16 15:34	10/21/16 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*60*		*33 - 138*	*10/20/16 15:34*	*10/21/16 18:44*	*1*
2-Fluorobiphenyl	*70*		*15 - 122*	*10/20/16 15:34*	*10/21/16 18:44*	*1*
Nitrobenzene-d5	*66*		*19 - 130*	*10/20/16 15:34*	*10/21/16 18:44*	*1*

Client Sample ID: ROST4PZC-ROX-101316

Date Collected: 10/13/16 14:45
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-8

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**57**		0.96	0.096	ug/L		10/20/16 15:34	10/25/16 17:51	5
2-Methylnaphthalene	**63**		0.96	0.096	ug/L		10/20/16 15:34	10/25/16 17:51	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.7	ug/L		10/20/16 15:34	10/24/16 13:41	1
Benzenethiol	ND	UJ	9.6	1.6	ug/L		10/20/16 15:34	10/24/16 13:41	1
Benzoic acid	ND	* UJ	29	7.0	ug/L		10/20/16 15:34	10/24/16 13:41	1
Benzyl alcohol	ND	*	9.6	1.9	ug/L		10/20/16 15:34	10/24/16 13:41	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		10/20/16 15:34	10/24/16 13:41	1
Bis(2-chloroethyl)ether	ND	*	9.6	0.71	ug/L		10/20/16 15:34	10/24/16 13:41	1
bis (2-chloroisopropyl) ether	ND		9.6	0.78	ug/L		10/20/16 15:34	10/24/16 13:41	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.2	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		10/20/16 15:34	10/24/16 13:41	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Chloroaniline	ND		9.6	3.3	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Chloro-3-methylphenol	ND	*	9.6	3.7	ug/L		10/20/16 15:34	10/24/16 13:41	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		10/20/16 15:34	10/24/16 13:41	1
2-Chlorophenol	ND	*	9.6	2.1	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Chlorophenyl phenyl ether	ND	*	9.6	1.9	ug/L		10/20/16 15:34	10/24/16 13:41	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		10/20/16 15:34	10/24/16 13:41	1
Dibenzofuran	**0.83**	**J**	9.6	0.50	ug/L		10/20/16 15:34	10/24/16 13:41	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4-Dichlorophenol	ND	*	9.6	2.9	ug/L		10/20/16 15:34	10/24/16 13:41	1
Diethyl phthalate	**0.74**	**J**	9.6	0.67	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4-Dimethylphenol	ND	*	9.6	3.4	ug/L		10/20/16 15:34	10/24/16 13:41	1
Dimethyl phthalate	ND	*	9.6	0.58	ug/L		10/20/16 15:34	10/24/16 13:41	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		10/20/16 15:34	10/24/16 13:41	1
4,6-Dinitro-ortho-cresol	ND		9.6	1.9	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		10/20/16 15:34	10/24/16 13:41	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		10/20/16 15:34	10/24/16 13:41	1
1,4-Dioxane	ND	*	9.6	0.96	ug/L		10/20/16 15:34	10/24/16 13:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		10/20/16 15:34	10/24/16 13:41	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		10/20/16 15:34	10/24/16 13:41	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		10/20/16 15:34	10/24/16 13:41	1
Hexachloroethane	ND	*	9.6	4.0	ug/L		10/20/16 15:34	10/24/16 13:41	1
Indene	ND		9.6	0.96	ug/L		10/20/16 15:34	10/24/16 13:41	1
Isophorone	ND		9.6	0.55	ug/L		10/20/16 15:34	10/24/16 13:41	1
2-Methylphenol	ND		9.6	1.7	ug/L		10/20/16 15:34	10/24/16 13:41	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		10/20/16 15:34	10/24/16 13:41	1
2-Nitroaniline	ND		9.6	2.1	ug/L		10/20/16 15:34	10/24/16 13:41	1
3-Nitroaniline	ND		9.6	1.7	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Nitroaniline	ND		9.6	2.4	ug/L		10/20/16 15:34	10/24/16 13:41	1
Nitrobenzene	ND	*	9.6	0.53	ug/L		10/20/16 15:34	10/24/16 13:41	1
2-Nitrophenol	ND	*	9.6	0.63	ug/L		10/20/16 15:34	10/24/16 13:41	1
4-Nitrophenol	ND		9.6	2.0	ug/L		10/20/16 15:34	10/24/16 13:41	1
N-Nitrosodimethylamine	ND		9.6	3.4	ug/L		10/20/16 15:34	10/24/16 13:41	1

Client Sample ID: ROST4PZC-ROX-101316

Date Collected: 10/13/16 14:45
Date Received: 10/14/16 08:56

Lab Sample ID: 400-128726-8

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.6	3.2	ug/L		10/20/16 15:34	10/24/16 13:41	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		10/20/16 15:34	10/24/16 13:41	1
Pentachlorophenol	ND		19	1.7	ug/L		10/20/16 15:34	10/24/16 13:41	1
Phenol	ND	*	9.6	2.5	ug/L		10/20/16 15:34	10/24/16 13:41	1
Pyridine	ND		9.6	3.1	ug/L		10/20/16 15:34	10/24/16 13:41	1
Quinoline	ND		9.6	5.8	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4,5-Trichlorophenol	ND	*	9.6	3.6	ug/L		10/20/16 15:34	10/24/16 13:41	1
2,4,6-Trichlorophenol	ND	*	9.6	3.4	ug/L		10/20/16 15:34	10/24/16 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 120*	*10/20/16 15:34*	*10/24/16 13:41*	*1*
2-Fluorophenol	*0.4*	*X*	*10 - 120*	*10/20/16 15:34*	*10/24/16 13:41*	*1*
Nitrobenzene-d5	*57*		*27 - 120*	*10/20/16 15:34*	*10/24/16 13:41*	*1*
Phenol-d5	*47*		*10 - 120*	*10/20/16 15:34*	*10/24/16 13:41*	*1*
Terphenyl-d14	*68*		*53 - 125*	*10/20/16 15:34*	*10/24/16 13:41*	*1*
2,4,6-Tribromophenol	*73*		*15 - 135*	*10/20/16 15:34*	*10/24/16 13:41*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/20/16 10:24	10/20/16 21:23	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/20/16 10:24	10/20/16 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*128*		*51 - 149*	*10/20/16 10:24*	*10/20/16 21:23*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128726-2	TB-ROX-101316-8260	92	105	106
400-128726-3	MW9-ROX-101316	91	106	108
400-128726-4	ROST3MW-ROX-101316	94	104	105
400-128726-5	MW1-ROX-101316	95	106	104
400-128726-6	MW28-ROX-101316	96	105	105
400-128726-7	MW2-ROX101316	93	107	108
400-128726-8	ROST4PZC-ROX-101316	90	102	107
400-128764-A-2 MS	Matrix Spike	90	105	103
400-128764-A-2 MSD	Matrix Spike Duplicate	88	106	103
LCS 400-328230/1002	Lab Control Sample	92	108	103
MB 400-328230/18	Method Blank	90	105	108

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128726-3	MW9-ROX-101316	81	45	81	61	77	82
400-128726-4	ROST3MW-ROX-101316	73	43	71	52	68	81
400-128726-5	MW1-ROX-101316	81	38	80	59	76	82
400-128726-6	MW28-ROX-101316	82	39	79	62	86	99
400-128726-7	MW2-ROX101316	72	0.2 X	72	45	63	61
400-128726-8	ROST4PZC-ROX-101316	74	0.4 X	57	47	68	73
LCS 400-327625/2-A	Lab Control Sample	83	58	75	76	83	105
LCS 400-327625/4-A	Lab Control Sample	84	72	83	81	86	84
LCSD 400-327625/3-A	Lab Control Sample Dup	94	74	88	93	94	121
LCSD 400-327625/5-A	Lab Control Sample Dup	59	37	61	50	69	45
MB 400-327625/1-A	Method Blank	73	38	73	59	76	68

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128726-3	MW9-ROX-101316	54	62	53

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128726-4	ROST3MW-ROX-101316	54	57	53
400-128726-5	MW1-ROX-101316	59	67	62
400-128726-6	MW28-ROX-101316	72	67	62
400-128726-7	MW2-ROX101316	63	68	61
400-128726-8	ROST4PZC-ROX-101316	60	70	66
LCS 400-327625/2-A	Lab Control Sample	94	95	66
LCSD 400-327625/3-A	Lab Control Sample Dup	104	108	83
MB 400-327625/1-A	Method Blank	48	48	44

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-128726-1	TB-ROX-101316-8011	144
400-128726-3	MW9-ROX-101316	135
400-128726-4	ROST3MW-ROX-101316	111
400-128726-5	MW1-ROX-101316	138
400-128726-6	MW28-ROX-101316	144
400-128726-7	MW2-ROX101316	199 X
400-128726-8	ROST4PZC-ROX-101316	128
LCS 400-327544/2-A	Lab Control Sample	135
LCSD 400-327544/3-A	Lab Control Sample Dup	131
MB 400-327544/1-A	Method Blank	147

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128726-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101316-8011

Lab Sample ID: 400-128726-1
Matrix: Water
Date Collected: 10/13/16 00:00
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.2 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 18:24	KH1	TAL PEN

Client Sample ID: TB-ROX-101316-8260

Lab Sample ID: 400-128726-2
Matrix: Water
Date Collected: 10/13/16 00:00
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 21:52	S1S	TAL PEN

Client Sample ID: MW9-ROX-101316

Lab Sample ID: 400-128726-3
Matrix: Water
Date Collected: 10/13/16 09:00
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 23:47	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 21:59	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 16:29	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 16:49	S1S	TAL PEN
Total/NA	Prep	8011			34 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 18:54	KH1	TAL PEN

Client Sample ID: ROST3MW-ROX-101316

Lab Sample ID: 400-128726-4
Matrix: Water
Date Collected: 10/13/16 09:55
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/26/16 00:10	S1S	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 22:32	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 17:02	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 17:12	S1S	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 19:24	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128726-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: MW1-ROX-101316

Lab Sample ID: 400-128726-5

Date Collected: 10/13/16 11:00
Matrix: Water
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/26/16 00:33	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 23:04	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 17:35	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 17:35	S1S	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 19:54	KH1	TAL PEN

Client Sample ID: MW28-ROX-101316

Lab Sample ID: 400-128726-6

Date Collected: 10/13/16 12:05
Matrix: Water
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/26/16 00:56	S1S	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 23:37	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 18:09	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 17:58	S1S	TAL PEN
Total/NA	Prep	8011			35 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 20:23	KH1	TAL PEN

Client Sample ID: MW2-ROX101316

Lab Sample ID: 400-128726-7

Date Collected: 10/13/16 13:35
Matrix: Water
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/26/16 01:21	S1S	TAL PEN
Total/NA	Prep	3520C			1030 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 13:08	MAM	TAL PEN
Total/NA	Prep	3520C			1030 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 18:21	S1S	TAL PEN
Total/NA	Prep	8011			34.9 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 20:53	KH1	TAL PEN

Client Sample ID: ROST4PZC-ROX-101316

Lab Sample ID: 400-128726-8

Date Collected: 10/13/16 14:45
Matrix: Water
Date Received: 10/14/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	328230	10/26/16 02:53	S1S	TAL PEN
Total/NA	Prep	3520C			1040 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 13:41	MAM	TAL PEN
Total/NA	Prep	3520C	DL		1040 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL	DL	5			328268	10/25/16 17:51	S1S	TAL PEN
Total/NA	Prep	3520C			1040 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 18:44	S1S	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 21:23	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327544/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 16:55	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327625/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 17:04	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 12:35	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			327644	10/21/16 15:40	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328230/18

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 18:35	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327544/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327544/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1			327716	10/20/16 17:24	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327625/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 17:37	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 13:09	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327644	10/21/16 16:03	S1S	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-327625/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 18:42	MAM	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-328230/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 17:38	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-327544/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327544	10/20/16 10:24	KH1	TAL PEN
Total/NA	Analysis	8011		1			327716	10/20/16 17:54	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327625/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 18:09	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327974	10/24/16 13:42	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			327644	10/21/16 16:26	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327625/5-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327625	10/20/16 15:34	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327859	10/22/16 19:15	MAM	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128764-A-2 MS

Date Collected: 10/14/16 10:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 19:57	S1S	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128764-A-2 MSD

Date Collected: 10/14/16 10:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 20:20	S1S	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-2	TB-ROX-101316-8260	Total/NA	Water	8260B	
400-128726-3	MW9-ROX-101316	Total/NA	Water	8260B	
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8260B	
400-128726-5	MW1-ROX-101316	Total/NA	Water	8260B	
400-128726-6	MW28-ROX-101316	Total/NA	Water	8260B	
400-128726-7	MW2-ROX101316	Total/NA	Water	8260B	
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	8260B	
MB 400-328230/18	Method Blank	Total/NA	Water	8260B	
LCS 400-328230/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128764-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
400-128764-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 327625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-3	MW9-ROX-101316	Total/NA	Water	3520C	
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	3520C	
400-128726-5	MW1-ROX-101316	Total/NA	Water	3520C	
400-128726-6	MW28-ROX-101316	Total/NA	Water	3520C	
400-128726-7	MW2-ROX101316	Total/NA	Water	3520C	
400-128726-8 - DL	ROST4PZC-ROX-101316	Total/NA	Water	3520C	
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	3520C	
MB 400-327625/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-327625/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-327625/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-327625/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-327625/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 327644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-3	MW9-ROX-101316	Total/NA	Water	8270D LL	327625
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8270D LL	327625
400-128726-5	MW1-ROX-101316	Total/NA	Water	8270D LL	327625
400-128726-6	MW28-ROX-101316	Total/NA	Water	8270D LL	327625
400-128726-7	MW2-ROX101316	Total/NA	Water	8270D LL	327625
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	8270D LL	327625
MB 400-327625/1-A	Method Blank	Total/NA	Water	8270D LL	327625
LCS 400-327625/2-A	Lab Control Sample	Total/NA	Water	8270D LL	327625
LCSD 400-327625/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	327625

Analysis Batch: 327859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-3	MW9-ROX-101316	Total/NA	Water	8270D	327625
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8270D	327625
400-128726-5	MW1-ROX-101316	Total/NA	Water	8270D	327625
400-128726-6	MW28-ROX-101316	Total/NA	Water	8270D	327625
MB 400-327625/1-A	Method Blank	Total/NA	Water	8270D	327625
LCS 400-327625/2-A	Lab Control Sample	Total/NA	Water	8270D	327625
LCS 400-327625/4-A	Lab Control Sample	Total/NA	Water	8270D	327625

GC/MS Semi VOA (Continued)

Analysis Batch: 327859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-327625/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327625
LCSD 400-327625/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	327625

Analysis Batch: 327974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-3	MW9-ROX-101316	Total/NA	Water	8270D	327625
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8270D	327625
400-128726-5	MW1-ROX-101316	Total/NA	Water	8270D	327625
400-128726-6	MW28-ROX-101316	Total/NA	Water	8270D	327625
MB 400-327625/1-A	Method Blank	Total/NA	Water	8270D	327625
LCS 400-327625/2-A	Lab Control Sample	Total/NA	Water	8270D	327625
LCSD 400-327625/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327625

Analysis Batch: 327977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-7	MW2-ROX101316	Total/NA	Water	8270D	327625
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	8270D	327625

Analysis Batch: 328268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-8 - DL	ROST4PZC-ROX-101316	Total/NA	Water	8270D LL	327625

GC Semi VOA

Prep Batch: 327544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-1	TB-ROX-101316-8011	Total/NA	Water	8011	
400-128726-3	MW9-ROX-101316	Total/NA	Water	8011	
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8011	
400-128726-5	MW1-ROX-101316	Total/NA	Water	8011	
400-128726-6	MW28-ROX-101316	Total/NA	Water	8011	
400-128726-7	MW2-ROX101316	Total/NA	Water	8011	
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	8011	
MB 400-327544/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327544/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327544/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 327716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128726-1	TB-ROX-101316-8011	Total/NA	Water	8011	327544
400-128726-3	MW9-ROX-101316	Total/NA	Water	8011	327544
400-128726-4	ROST3MW-ROX-101316	Total/NA	Water	8011	327544
400-128726-5	MW1-ROX-101316	Total/NA	Water	8011	327544
400-128726-6	MW28-ROX-101316	Total/NA	Water	8011	327544
400-128726-7	MW2-ROX101316	Total/NA	Water	8011	327544
400-128726-8	ROST4PZC-ROX-101316	Total/NA	Water	8011	327544
MB 400-327544/1-A	Method Blank	Total/NA	Water	8011	327544
LCS 400-327544/2-A	Lab Control Sample	Total/NA	Water	8011	327544
LCSD 400-327544/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327544

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 18:35	1
Acrolein	ND		20	10	ug/L			10/25/16 18:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 18:35	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 18:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 18:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 18:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 18:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 18:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 18:35	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 18:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 18:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 18:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 18:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 18:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 18:35	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 18:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 18:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 18:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 18:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 18:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 18:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 18:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 18:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 18:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 18:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 18:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 18:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 18:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 18:35	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 18:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 18:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 18:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 18:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/25/16 18:35*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 18:35*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/25/16 18:35*	*1*

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	234		ug/L		117	43 - 160
Acrolein	500	467		ug/L		93	38 - 160
Acrylonitrile	500	462		ug/L		92	64 - 142
Benzene	50.0	48.7		ug/L		97	70 - 130
Bromobenzene	50.0	51.3		ug/L		103	70 - 132
Bromochloromethane	50.0	49.1		ug/L		98	70 - 130
Bromodichloromethane	50.0	45.7		ug/L		91	67 - 133
Bromoform	50.0	40.2		ug/L		80	57 - 140
Bromomethane	50.0	54.3		ug/L		109	10 - 160
2-Butanone (MEK)	200	208		ug/L		104	61 - 145
Carbon disulfide	50.0	39.8		ug/L		80	61 - 137
Carbon tetrachloride	50.0	49.0		ug/L		98	61 - 137
Chlorobenzene	50.0	52.1		ug/L		104	70 - 130
Dibromochloromethane	50.0	45.2		ug/L		90	67 - 135
Chloroethane	50.0	51.6		ug/L		103	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	35.3		ug/L		71	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	50.0		ug/L		100	69 - 130
Chloromethane	50.0	39.7		ug/L		79	58 - 137
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	69 - 132
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	31.5		ug/L		63	41 - 146
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	46.7		ug/L		93	63 - 134
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	45.4		ug/L		91	52 - 135
1,1-Dichloropropene	50.0	50.9		ug/L		102	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Ethyl methacrylate	50.0	43.2		ug/L		86	68 - 130
Hexachlorobutadiene	50.0	53.4		ug/L		107	53 - 140
2-Hexanone	200	196		ug/L		98	65 - 137
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 130
Methylene bromide	50.0	49.7		ug/L		99	70 - 130
Methylene Chloride	50.0	45.3		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	189		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	44.2		ug/L		88	66 - 130
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
Naphthalene	50.0	47.0		ug/L		94	47 - 149
n-Butylbenzene	50.0	58.0		ug/L		116	67 - 130
N-Propylbenzene	50.0	52.9		ug/L		106	70 - 130
o-Chlorotoluene	50.0	51.5		ug/L		103	70 - 130
o-Xylene	50.0	49.3		ug/L		99	70 - 130
p-Chlorotoluene	50.0	50.1		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	55.1		ug/L		110	65 - 130
sec-Butylbenzene	50.0	55.2		ug/L		110	66 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
tert-Butylbenzene	50.0	53.5		ug/L		107	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 131
Tetrachloroethene	50.0	47.2		ug/L		94	65 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	42.6		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	60 - 138
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	68 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 130
Trichloroethene	50.0	51.3		ug/L		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	50.2		ug/L		100	65 - 138
1,2,3-Trichloropropane	50.0	46.3		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	52.5		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/L		105	69 - 130
Vinyl acetate	100	99.3		ug/L		99	26 - 160
Vinyl chloride	50.0	43.0		ug/L		86	59 - 136
Xylenes, Total	100	99.8		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-128764-A-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	149		ug/L		74	43 - 160
Acrolein	ND		500	444		ug/L		89	38 - 160
Acrylonitrile	ND		500	463		ug/L		93	62 - 149
Benzene	ND		50.0	49.1		ug/L		98	56 - 142
Bromobenzene	ND		50.0	49.8		ug/L		100	59 - 136
Bromochloromethane	ND		50.0	47.8		ug/L		96	64 - 140
Bromodichloromethane	ND		50.0	45.2		ug/L		90	59 - 143
Bromoform	ND		50.0	37.9		ug/L		76	50 - 140
Bromomethane	ND		50.0	46.8		ug/L		94	10 - 160
2-Butanone (MEK)	ND		200	164		ug/L		82	55 - 150
Carbon disulfide	ND		50.0	41.2		ug/L		82	48 - 152
Carbon tetrachloride	ND		50.0	47.3		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	43.9		ug/L		88	56 - 143
Chloroethane	ND		50.0	45.7		ug/L		91	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	3.41	J F1	ug/L		7	10 - 160
Chloroform	ND		50.0	50.1		ug/L		100	60 - 141
1-Chlorohexane	ND		50.0	47.1		ug/L		94	56 - 136
Chloromethane	ND		50.0	36.5		ug/L		73	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.7		ug/L		101	52 - 137
1,3-Dichlorobenzene	ND		50.0	50.1		ug/L		100	54 - 135
1,4-Dichlorobenzene	ND		50.0	51.3		ug/L		103	53 - 135
Dichlorodifluoromethane	ND		50.0	28.7		ug/L		57	16 - 160
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144
1,2-Dichloroethane	ND		50.0	50.7		ug/L		101	60 - 141
1,1-Dichloroethene	ND		50.0	46.8		ug/L		94	54 - 147
1,2-Dichloropropane	ND		50.0	50.1		ug/L		100	66 - 137
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.9		ug/L		88	42 - 144
1,1-Dichloropropene	ND		50.0	50.5		ug/L		101	65 - 136
Ethylbenzene	ND		50.0	49.9		ug/L		100	58 - 131
Ethyl methacrylate	ND		50.0	43.9		ug/L		88	64 - 130
Hexachlorobutadiene	ND		50.0	47.7		ug/L		95	31 - 149
2-Hexanone	ND		200	166		ug/L		83	65 - 140
Isopropylbenzene	ND		50.0	51.6		ug/L		103	56 - 133
Methylene bromide	ND		50.0	50.3		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	45.9		ug/L		92	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	187		ug/L		93	63 - 146
Methyl tert-butyl ether	ND		50.0	43.6		ug/L		87	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.9		ug/L		98	57 - 130
Naphthalene	ND		50.0	46.1		ug/L		92	25 - 160
n-Butylbenzene	ND		50.0	54.2		ug/L		108	41 - 142
N-Propylbenzene	ND		50.0	51.9		ug/L		104	51 - 138
o-Chlorotoluene	ND		50.0	49.6		ug/L		99	53 - 134
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130
p-Chlorotoluene	ND		50.0	49.7		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	52.8		ug/L		106	48 - 139
sec-Butylbenzene	ND		50.0	53.2		ug/L		106	50 - 138
Styrene	ND		50.0	48.9		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	51.8		ug/L		104	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.9		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	43.0		ug/L		86	52 - 133
Toluene	ND		50.0	49.8		ug/L		100	65 - 130
trans-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	61 - 143
trans-1,3-Dichloropropene	ND		50.0	42.2		ug/L		84	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.6		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	48.0		ug/L		96	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	57 - 142
1,1,2-Trichloroethane	ND		50.0	49.5		ug/L		99	66 - 131
Trichloroethene	ND		50.0	49.1		ug/L		98	64 - 136
Trichlorofluoromethane	ND		50.0	47.3		ug/L		95	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.4		ug/L		95	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	50.2		ug/L		100	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.2		ug/L		102	52 - 135
Vinyl acetate	ND		100	92.6		ug/L		93	26 - 160
Vinyl chloride	ND		50.0	39.3		ug/L		79	46 - 152
Xylenes, Total	ND		100	98.2		ug/L		98	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	154		ug/L		77	43 - 160	3	30
Acrolein	ND		500	466		ug/L		93	38 - 160	5	31
Acrylonitrile	ND		500	466		ug/L		93	62 - 149	1	30
Benzene	ND		50.0	47.6		ug/L		95	56 - 142	3	30
Bromobenzene	ND		50.0	48.0		ug/L		96	59 - 136	4	30
Bromochloromethane	ND		50.0	46.1		ug/L		92	64 - 140	4	30
Bromodichloromethane	ND		50.0	43.1		ug/L		86	59 - 143	5	30
Bromoform	ND		50.0	37.7		ug/L		75	50 - 140	1	30
Bromomethane	ND		50.0	48.9		ug/L		98	10 - 160	4	50
2-Butanone (MEK)	ND		200	176		ug/L		88	55 - 150	8	30
Carbon disulfide	ND		50.0	39.6		ug/L		79	48 - 152	4	30
Carbon tetrachloride	ND		50.0	46.1		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	49.1		ug/L		98	64 - 130	7	30
Dibromochloromethane	ND		50.0	42.4		ug/L		85	56 - 143	4	30
Chloroethane	ND		50.0	50.6		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141	4	30
1-Chlorohexane	ND		50.0	46.1		ug/L		92	56 - 136	2	30
Chloromethane	ND		50.0	40.4		ug/L		81	49 - 148	10	31
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	45.2		ug/L		90	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	49.1		ug/L		98	52 - 137	3	30
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	48.0		ug/L		96	53 - 135	7	30
Dichlorodifluoromethane	ND		50.0	31.2		ug/L		62	16 - 160	8	31
1,1-Dichloroethane	ND		50.0	49.4		ug/L		99	61 - 144	0	30
1,2-Dichloroethane	ND		50.0	48.6		ug/L		97	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	44.7		ug/L		89	54 - 147	5	30
1,2-Dichloropropane	ND		50.0	49.8		ug/L		100	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	47.9		ug/L		96	66 - 133	5	30
2,2-Dichloropropane	ND		50.0	42.7		ug/L		85	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	49.7		ug/L		99	65 - 136	2	30
Ethylbenzene	ND		50.0	46.9		ug/L		94	58 - 131	6	30
Ethyl methacrylate	ND		50.0	43.1		ug/L		86	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	47.4		ug/L		95	31 - 149	1	36
2-Hexanone	ND		200	164		ug/L		82	65 - 140	1	30
Isopropylbenzene	ND		50.0	48.5		ug/L		97	56 - 133	6	30
Methylene bromide	ND		50.0	48.7		ug/L		97	63 - 138	3	30
Methylene Chloride	ND		50.0	46.8		ug/L		94	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	185		ug/L		92	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	43.2		ug/L		86	59 - 137	1	30
m-Xylene & p-Xylene	ND		50.0	46.5		ug/L		93	57 - 130	5	30
Naphthalene	ND		50.0	46.4		ug/L		93	25 - 160	1	30
n-Butylbenzene	ND		50.0	52.8		ug/L		106	41 - 142	3	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	6	30
o-Chlorotoluene	ND		50.0	48.2		ug/L		96	53 - 134	3	30
o-Xylene	ND		50.0	46.3		ug/L		93	61 - 130	6	30
p-Chlorotoluene	ND		50.0	47.4		ug/L		95	54 - 133	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	50.1		ug/L		100	48 - 139	5	30
sec-Butylbenzene	ND		50.0	50.8		ug/L		102	50 - 138	5	30
Styrene	ND		50.0	47.2		ug/L		94	58 - 131	3	30
tert-Butylbenzene	ND		50.0	49.5		ug/L		99	54 - 146	5	30
1,1,1,2-Tetrachloroethane	ND		50.0	44.6		ug/L		89	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	66 - 135	3	30
Tetrachloroethene	ND		50.0	41.7		ug/L		83	52 - 133	3	30
Toluene	ND		50.0	47.0		ug/L		94	65 - 130	6	30
trans-1,2-Dichloroethene	ND		50.0	48.3		ug/L		97	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	41.7		ug/L		83	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	48.8		ug/L		98	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	47.4		ug/L		95	39 - 148	1	30
1,1,1-Trichloroethane	ND		50.0	46.2		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	46.8		ug/L		94	66 - 131	6	30
Trichloroethene	ND		50.0	49.6		ug/L		99	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	50.1		ug/L		100	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	48.2		ug/L		96	50 - 139	4	30
1,3,5-Trimethylbenzene	ND		50.0	48.3		ug/L		97	52 - 135	6	30
Vinyl acetate	ND		100	99.7		ug/L		100	26 - 160	7	33
Vinyl chloride	ND		50.0	44.4		ug/L		89	46 - 152	12	30
Xylenes, Total	ND		100	92.8		ug/L		93	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327625/1-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/16 15:34	10/22/16 17:04	1
Benzenethiol	ND		10	1.7	ug/L		10/20/16 15:34	10/22/16 17:04	1
Benzoic acid	ND		30	7.3	ug/L		10/20/16 15:34	10/22/16 17:04	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 17:04	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/16 15:34	10/22/16 17:04	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/16 15:34	10/22/16 17:04	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/16 15:34	10/22/16 17:04	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/16 15:34	10/22/16 17:04	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/16 15:34	10/22/16 17:04	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/16 15:34	10/22/16 17:04	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/16 15:34	10/22/16 17:04	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 17:04	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/16 15:34	10/22/16 17:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327625/1-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/16 15:34	10/22/16 17:04	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 17:04	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/16 15:34	10/22/16 17:04	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/16 15:34	10/22/16 17:04	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/16 15:34	10/22/16 17:04	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/16 15:34	10/22/16 17:04	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/16 15:34	10/22/16 17:04	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/16 15:34	10/22/16 17:04	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/16 15:34	10/22/16 17:04	1
Indene	ND		10	1.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
Isophorone	ND		10	0.57	ug/L		10/20/16 15:34	10/22/16 17:04	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 17:04	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/16 15:34	10/22/16 17:04	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/16 15:34	10/22/16 17:04	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/16 15:34	10/22/16 17:04	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/16 15:34	10/22/16 17:04	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/16 15:34	10/22/16 17:04	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/16 15:34	10/22/16 17:04	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 17:04	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/16 15:34	10/22/16 17:04	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/16 15:34	10/22/16 17:04	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/16 15:34	10/22/16 17:04	1
Phenol	ND		10	2.6	ug/L		10/20/16 15:34	10/22/16 17:04	1
Pyridine	ND		10	3.2	ug/L		10/20/16 15:34	10/22/16 17:04	1
Quinoline	ND		10	6.0	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/16 15:34	10/22/16 17:04	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/16 15:34	10/22/16 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 120*	*10/20/16 15:34*	*10/22/16 17:04*	*1*
2-Fluorophenol	*38*		*10 - 120*	*10/20/16 15:34*	*10/22/16 17:04*	*1*
Nitrobenzene-d5	*73*		*27 - 120*	*10/20/16 15:34*	*10/22/16 17:04*	*1*
Phenol-d5	*59*		*10 - 120*	*10/20/16 15:34*	*10/22/16 17:04*	*1*
Terphenyl-d14	*76*		*53 - 125*	*10/20/16 15:34*	*10/22/16 17:04*	*1*
2,4,6-Tribromophenol	*68*		*15 - 135*	*10/20/16 15:34*	*10/22/16 17:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327625/1-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		10	2.0	ug/L		10/20/16 15:34	10/24/16 12:35	1

Lab Sample ID: LCS 400-327625/2-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	21.1		ug/L		70	10 - 145
Benzoic acid	126	ND	*	ug/L		5	10 - 120
Bis(2-chloroethoxy)methane	30.0	18.8		ug/L		63	54 - 123
Bis(2-chloroethyl)ether	30.0	20.4		ug/L		68	47 - 120
bis (2-chloroisopropyl) ether	30.0	19.3		ug/L		64	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	24.3		ug/L		81	62 - 140
4-Bromophenyl phenyl ether	30.0	21.1		ug/L		70	62 - 132
Butyl benzyl phthalate	30.0	22.2		ug/L		74	51 - 150
4-Chloroaniline	30.0	19.7		ug/L		66	32 - 128
4-Chloro-3-methylphenol	30.0	21.3		ug/L		71	47 - 135
2-Chloronaphthalene	30.0	21.9		ug/L		73	24 - 150
2-Chlorophenol	30.0	16.9		ug/L		56	45 - 120
4-Chlorophenyl phenyl ether	30.0	21.8		ug/L		73	61 - 133
Dibenz[a,h]acridine	30.0	37.7		ug/L		126	60 - 131
Dibenzofuran	30.0	21.7		ug/L		72	62 - 124
3,3'-Dichlorobenzidine	40.0	35.5		ug/L		89	16 - 167
2,4-Dichlorophenol	30.0	18.7		ug/L		62	52 - 125
Diethyl phthalate	30.0	21.2		ug/L		71	55 - 140
2,4-Dimethylphenol	30.0	20.0		ug/L		67	52 - 121
Dimethyl phthalate	30.0	22.7		ug/L		76	50 - 133
Di-n-butyl phthalate	30.0	22.5		ug/L		75	59 - 144
4,6-Dinitro-ortho-cresol	60.0	42.4		ug/L		71	46 - 136
2,4-Dinitrophenol	101	46.3		ug/L		46	22 - 146
2,4-Dinitrotoluene	30.0	22.3		ug/L		74	54 - 141
2,6-Dinitrotoluene	30.0	22.8		ug/L		76	61 - 130
Di-n-octyl phthalate	30.0	21.8		ug/L		73	55 - 140
1,4-Dioxane	30.0	16.2		ug/L		54	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	20.7		ug/L		69	55 - 139
Hexachlorobenzene	30.0	22.5		ug/L		75	60 - 138
Hexachlorocyclopentadiene	30.0	20.6		ug/L		69	1 - 139
Hexachloroethane	30.0	18.8		ug/L		63	46 - 121
Indene	30.0	25.4		ug/L		85	17 - 141
Isophorone	30.0	19.2		ug/L		64	57 - 122
2-Methylphenol	30.0	25.4		ug/L		85	38 - 121
3 & 4 Methylphenol	30.0	19.0	J	ug/L		63	43 - 126
2-Nitroaniline	30.0	25.6		ug/L		85	52 - 135
3-Nitroaniline	30.0	23.8		ug/L		79	51 - 128
4-Nitroaniline	30.0	28.7		ug/L		96	38 - 141
Nitrobenzene	30.0	19.1		ug/L		64	52 - 128
2-Nitrophenol	30.0	17.3		ug/L		58	47 - 129

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327625/2-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	60.0	46.2		ug/L		77	34 - 137
N-Nitrosodimethylamine	30.0	22.1		ug/L		74	21 - 134
N-Nitrosodi-n-propylamine	30.0	20.0		ug/L		67	41 - 143
N-Nitrosodiphenylamine	29.8	20.1		ug/L		68	10 - 185
Pentachlorophenol	60.0	40.4		ug/L		67	38 - 138
Phenol	30.0	17.1		ug/L		57	37 - 120
Pyridine	30.0	16.0		ug/L		53	10 - 127
Quinoline	30.0	29.3		ug/L		98	10 - 164
2,4,5-Trichlorophenol	30.0	22.1		ug/L		74	53 - 130
2,4,6-Trichlorophenol	30.0	20.2		ug/L		67	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*34 - 120*
2-Fluorophenol	*58*		*10 - 120*
Nitrobenzene-d5	*75*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*83*		*53 - 125*
2,4,6-Tribromophenol	*105*		*15 - 135*

Lab Sample ID: LCS 400-327625/2-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	30.0	16.1		ug/L		54	51 - 121

Lab Sample ID: LCS 400-327625/4-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		4	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*34 - 120*
2-Fluorophenol	*72*		*10 - 120*
Nitrobenzene-d5	*83*		*27 - 120*
Phenol-d5	*81*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*84*		*15 - 135*

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	28.4		ug/L		95	10 - 145	30	30
Benzoic acid	126	ND	*	ug/L		5	10 - 120	0	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	30.0	25.3		ug/L		84	54 - 123	30	30
Bis(2-chloroethyl)ether	30.0	27.9	*	ug/L		93	47 - 120	31	30
bis (2-chloroisopropyl) ether	30.0	25.5		ug/L		85	20 - 142	28	30
Bis(2-ethylhexyl) phthalate	30.0	30.9		ug/L		103	62 - 140	24	30
4-Bromophenyl phenyl ether	30.0	28.0		ug/L		93	62 - 132	28	30
Butyl benzyl phthalate	30.0	28.9		ug/L		96	51 - 150	26	30
4-Chloroaniline	30.0	26.5		ug/L		88	32 - 128	29	30
4-Chloro-3-methylphenol	30.0	30.4	*	ug/L		101	47 - 135	35	30
2-Chloronaphthalene	30.0	28.9		ug/L		96	24 - 150	28	30
2-Chlorophenol	30.0	24.7	*	ug/L		82	45 - 120	37	30
4-Chlorophenyl phenyl ether	30.0	29.7	*	ug/L		99	61 - 133	31	30
Dibenz[a,h]acridine	30.0	33.7		ug/L		112	60 - 131	11	30
Dibenzofuran	30.0	29.3		ug/L		98	62 - 124	30	30
3,3'-Dichlorobenzidine	40.0	44.2		ug/L		110	16 - 167	22	30
2,4-Dichlorophenol	30.0	27.2	*	ug/L		91	52 - 125	37	30
Diethyl phthalate	30.0	27.3		ug/L		91	55 - 140	25	30
2,4-Dimethylphenol	30.0	27.7	*	ug/L		92	52 - 121	32	30
Dimethyl phthalate	30.0	31.0	*	ug/L		103	50 - 133	31	30
Di-n-butyl phthalate	30.0	29.6		ug/L		99	59 - 144	27	30
4,6-Dinitro-ortho-cresol	60.0	55.8		ug/L		93	46 - 136	27	30
2,4-Dinitrophenol	101	61.0		ug/L		60	22 - 146	27	30
2,4-Dinitrotoluene	30.0	30.1		ug/L		100	54 - 141	30	30
2,6-Dinitrotoluene	30.0	30.5		ug/L		102	61 - 130	29	30
Di-n-octyl phthalate	30.0	29.2		ug/L		97	55 - 140	29	30
1,4-Dioxane	30.0	23.3	*	ug/L		78	10 - 130	36	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.4		ug/L		91	55 - 139	28	30
Hexachlorobenzene	30.0	29.7		ug/L		99	60 - 138	27	30
Hexachlorocyclopentadiene	30.0	25.4		ug/L		85	1 - 139	21	30
Hexachloroethane	30.0	25.6	*	ug/L		85	46 - 121	31	30
Indene	30.0	27.7		ug/L		92	17 - 141	9	30
Isophorone	30.0	26.0		ug/L		87	57 - 122	30	30
2-Methylphenol	30.0	33.9		ug/L		113	38 - 121	29	30
3 & 4 Methylphenol	30.0	25.5		ug/L		85	43 - 126	29	30
2-Nitroaniline	30.0	33.6		ug/L		112	52 - 135	27	30
3-Nitroaniline	30.0	30.9		ug/L		103	51 - 128	26	30
4-Nitroaniline	30.0	35.6		ug/L		119	38 - 141	21	30
Nitrobenzene	30.0	26.2	*	ug/L		87	52 - 128	31	30
2-Nitrophenol	30.0	25.6	*	ug/L		85	47 - 129	39	30
4-Nitrophenol	60.0	55.6		ug/L		93	34 - 137	18	30
N-Nitrosodimethylamine	30.0	28.4		ug/L		95	21 - 134	25	30
N-Nitrosodi-n-propylamine	30.0	25.8		ug/L		86	41 - 143	25	30
N-Nitrosodiphenylamine	29.8	26.7		ug/L		90	10 - 185	28	30
Pentachlorophenol	60.0	52.9		ug/L		88	38 - 138	27	30
Phenol	30.0	24.9	*	ug/L		83	37 - 120	37	30
Pyridine	30.0	21.6		ug/L		72	10 - 127	30	30
Quinoline	30.0	27.3		ug/L		91	10 - 164	7	30
2,4,5-Trichlorophenol	30.0	30.9	*	ug/L		103	53 - 130	33	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	30.0	29.0	*	ug/L		97	52 - 131	36	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*34 - 120*
2-Fluorophenol	*74*		*10 - 120*
Nitrobenzene-d5	*88*		*27 - 120*
Phenol-d5	*93*		*10 - 120*
Terphenyl-d14	*94*		*53 - 125*
2,4,6-Tribromophenol	*121*		*15 - 135*

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzyl alcohol	30.0	23.1	*	ug/L		77	51 - 121	36	30

Lab Sample ID: LCSD 400-327625/5-A
Matrix: Water
Analysis Batch: 327859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		3	20 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*59*		*34 - 120*
2-Fluorophenol	*37*		*10 - 120*
Nitrobenzene-d5	*61*		*27 - 120*
Phenol-d5	*50*		*10 - 120*
Terphenyl-d14	*69*		*53 - 125*
2,4,6-Tribromophenol	*45*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-327625/1-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
Anthracene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Chrysene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-327625/1-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
Fluorene	ND		0.20	0.021	ug/L		10/20/16 15:34	10/21/16 15:40	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/16 15:34	10/21/16 15:40	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
Pyrene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/16 15:34	10/21/16 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*48*		*33 - 138*	*10/20/16 15:34*	*10/21/16 15:40*	*1*
2-Fluorobiphenyl	*48*		*15 - 122*	*10/20/16 15:34*	*10/21/16 15:40*	*1*
Nitrobenzene-d5	*44*		*19 - 130*	*10/20/16 15:34*	*10/21/16 15:40*	*1*

Lab Sample ID: LCS 400-327625/2-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	23.2		ug/L		77	41 - 120
Acenaphthylene	30.0	21.7		ug/L		72	44 - 120
Anthracene	30.0	20.8		ug/L		69	49 - 120
Benzo[a]anthracene	30.0	20.4		ug/L		68	61 - 135
Benzo[a]pyrene	30.0	18.6		ug/L		62	52 - 120
Benzo[b]fluoranthene	30.0	17.5		ug/L		58	53 - 134
Benzo[g,h,i]perylene	30.0	15.9		ug/L		53	47 - 133
Benzo[k]fluoranthene	30.0	18.7		ug/L		62	57 - 134
Chrysene	30.0	21.0		ug/L		70	55 - 122
Dibenz(a,h)anthracene	30.0	17.4		ug/L		58	48 - 146
Fluoranthene	30.0	21.2		ug/L		71	54 - 128
Fluorene	30.0	26.5		ug/L		88	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	17.2		ug/L		57	43 - 142
Phenanthrene	30.0	20.6		ug/L		69	48 - 120
Pyrene	30.0	21.5		ug/L		72	48 - 132
1-Methylnaphthalene	30.0	17.6		ug/L		59	41 - 120
2-Methylnaphthalene	30.0	17.6		ug/L		59	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*94*		*33 - 138*
2-Fluorobiphenyl	*95*		*15 - 122*
Nitrobenzene-d5	*66*		*19 - 130*

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	33.3		ug/L		111	41 - 120	36	56

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-327625/3-A
Matrix: Water
Analysis Batch: 327644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	30.0	31.6		ug/L		105	44 - 120	37	56
Anthracene	30.0	29.6		ug/L		99	49 - 120	35	51
Benzo[a]anthracene	30.0	28.5		ug/L		95	61 - 135	33	49
Benzo[a]pyrene	30.0	26.3		ug/L		88	52 - 120	34	50
Benzo[b]fluoranthene	30.0	25.2		ug/L		84	53 - 134	36	54
Benzo[g,h,i]perylene	30.0	23.9		ug/L		80	47 - 133	40	50
Benzo[k]fluoranthene	30.0	28.8		ug/L		96	57 - 134	42	52
Chrysene	30.0	28.5		ug/L		95	55 - 122	30	50
Dibenz(a,h)anthracene	30.0	26.9		ug/L		90	48 - 146	43	50
Fluoranthene	30.0	30.2		ug/L		101	54 - 128	35	52
Fluorene	30.0	35.6		ug/L		119	45 - 125	29	56
Indeno[1,2,3-cd]pyrene	30.0	25.7		ug/L		86	43 - 142	39	51
Phenanthrene	30.0	29.3		ug/L		98	48 - 120	35	56
Pyrene	30.0	28.4		ug/L		95	48 - 132	28	52
1-Methylnaphthalene	30.0	24.9		ug/L		83	41 - 120	34	55
2-Methylnaphthalene	30.0	24.9		ug/L		83	32 - 124	34	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*104*		*33 - 138*
2-Fluorobiphenyl	*108*		*15 - 122*
Nitrobenzene-d5	*83*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327544/1-A
Matrix: Water
Analysis Batch: 327716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:24	10/20/16 16:55	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:24	10/20/16 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*147*		*51 - 149*	*10/20/16 10:24*	*10/20/16 16:55*	*1*

Lab Sample ID: LCS 400-327544/2-A
Matrix: Water
Analysis Batch: 327716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.108		ug/L		108	60 - 140
1,2-Dibromoethane	0.100	0.104		ug/L		104	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*135*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-327544/3-A
Matrix: Water
Analysis Batch: 327716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327544

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.100	0.0982		ug/L		98	60 - 140	10	30
1,2-Dibromoethane			0.100	0.109		ug/L		109	60 - 140	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*131*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 13 Oct. 2016
PAGE: 1 of 1

SAMPLING COMPANY: AECOM
LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
AECOM Other ID:

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Josh Clark / David Hamel

LAB USE ONLY

TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL
NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

400-128726 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101316-8011	10/13/16	0000	WATER	2					2	X			
	TB-ROX-101316-8260	"	0000	"	2					2			X	
	MW9-ROX-101316	"	0900	"	4			2		6	X	X	X	X
	ROST3MW-ROX-101316	"	0955	"	4			2		6	X	X	X	X
	MW1-ROX-101316	"	1100	"	4			2		6	X	X	X	X
	MW28-ROX-101316	"	1205	"	4			2		6	X	X	X	X
	MW2-ROX-101316	"	1335	"	4			2		6	X	X	X	X
	ROST4P2C-ROST-101316	↓	1445	↓	4			2		6	X	X	X	X

Relinquished by: (Signature) — Received by: (Signature) — Date: 13 Oct 2016 — Time: 1730

Relinquished by: (Signature) — Received by: (Signature) — Date: 10/14/16 — Time: 8:56

1.4, 2.3, 1.0 IR 6 2.9
Custody Seals: Test America
784745 → 784750,
784771 & 784772

Page 61 of 63

12/6/2016

af S400-57320 Date: 27Jul16 Wgt: 10.00 LBS DV: 0.00
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7138

Ref: S400-57320 Date: 27Jul16 Wgt: 10.00 LBS Dep:
DV: 0.00
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7149

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128726-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128726
List Number: 1
Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	784771, 784747,784745, 784749
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C, 2.3°C, 1.0°C, 2.9°C IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128726-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128764-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/29/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
MW14-ROX-101416-EB	MW14-ROX-101416
P66-ROX-101416	P74-ROX-101416
TB-ROX-101416-8260	TB-ROX-101416-8011

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 SVOCs were re-extracted outside of the extraction holding time. SVOCs were detected in the method blank, and although not indicated in the laboratory case narrative, PAHs and SVOCs were detected in the equipment blank. Several SVOC and PAH LCS/LCSD recoveries and SVOC and PAH LCS/LCSD RPDs were outside evaluation criteria. SVOC surrogate recoveries in Run#1 of sample P66-ROX-101416 were outside criteria, and the VOC by 8011 surrogate recovery for 4-bromofluorobenzene was outside criteria in the method blank. The Method 8260 VOC MS/MSD recoveries for 2-chloroethyl vinyl ether and VOC and SVOC Run#1 RPDs were outside evaluation criteria in sample MW14-ROX-101416. The SVOC internal standard area recoveries for chrysene-d_{12} and perylene-d_{12} were outside criteria in Run#1 of sample P66-ROX-101416, and perylene-d_{12} was outside criteria in the SVOC quality control sample LCSD 400-327727/3-A. PAHs were minimally diluted in sample P66-ROX-101416 to bring analyte concentrations within calibration range. Additionally, the continuing calibration verification for diethyl phthalate was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections below.

The continuing calibration verification for 4,6-dinitro-2-methylphenol and 2-nitrophenol exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was performed as requested for sample MW14-ROX-101416; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, SVOCs were re-extracted 7 days outside of the extraction holding time criteria (7 days) due to several initial LCS/LCSD and LCS/LCSD RPDs outside evaluation criteria. Holding and extraction time exceedances were not greater than two times (2X) criteria; data requiring qualification is summarized in the following table.

Sample ID	Parameter	Analyte	Qualification
MW14-ROX-101416 Run#2	SVOCs	All non-detects	**UJ**
MW14-ROX-101416 Run#2	SVOCs	Di-n-octyl phthalate	**J**
P66-ROX-101416 Run#2	SVOCs	All non-detects	**UJ**
P66-ROX-101416 Run#2	SVOCs	Benzoic acid	**J**
P66-ROX-101416 Run#2	SVOCs	Indene	**J**
P74-ROX-101416 Run#2	SVOCs	All non-detects	**UJ**
P74-ROX-101416 Run#2	SVOCs	Di-n-octyl phthalate	**J**

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MW14-ROX-101416-EB	PAHs	1-Methylnaphthalene	0.022 µg/L
MW14-ROX-101416-EB	PAHs	2-Methylnaphthalene	0.038 µg/L
MW14-ROX-101416-EB Run#1	SVOCs	Bis(2-chloroethoxy)methane	5.8 µg/L
MW14-ROX-101416-EB Run#2	SVOCs	Di-n-octyl phthalate	0.51 µg/L
MB 400-327727/1-A	SVOCs	Bis(2-chloroethoxy)methane	22.1 µg/L
MB 400-327727/1-A	SVOCs	Bis(2-chloroethyl)ether	1.99 µg/L
MB 400-327727/1-A	SVOCs	1,4-Dioxane	1.56 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. Method blank MB 400-327727/1-A is associated with the SVOC initial runs of samples; SVOC results are reported from the confirmation run. Please see section 12.0 of this review for additional qualifications regarding samples associated with equipment blank MW14-ROX-101416-EB.

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
LCS/LCSD 400-327727/4-A/5-A	SVOCs Run#1	Benzenethiol	**3**/52	**178**	20-150/30

LCS/LCSD ID	Parameter	Analyte	LCS/ LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-328762/4-A/5-A	SVOCs Run #2	Benzenethiol	**3/2**	**60**	20-150/30
LCS/LCSD 400-327727/2-A/3-A	PAHs	Acenaphthene	58/113	**64**	41-120/56
LCS/LCSD 400-327727/2-A/3-A	PAHs	Acenaphthylene	56/108	**63**	44-120/56
LCS/LCSD 400-327727/2-A/3-A	PAHs	Anthracene	60/120	**66**	49-120/51
LCS/LCSD 400-327727/2-A/3-A	PAHs	Benzo[a]anthracene	63/125	**66**	61-135/49
LCS/LCSD 400-327727/2-A/3-A	PAHs	Benzo[a]pyrene	64/**123**	**64**	52-120/50
LCS/LCSD 400-327727/2-A/3-A	PAHs	Benzo[b]fluoranthene	68/**135**	**65**	53-134/54
LCS/LCSD 400-327727/2-A/3-A	PAHs	Benzo[g,h,i]perylene	56/109	**65**	47-133/50
LCS/LCSD 400-327727/2-A/3-A	PAHs	Benzo[k]fluoranthene	57/111	**65**	57-134/52
LCS/LCSD 400-327727/2-A/3-A	PAHs	Chrysene	56/111	**67**	55-122/50
LCS/LCSD 400-327727/2-A/3-A	PAHs	Dibenz(a,,h)anthracene	63/125	**66**	48-146/50
LCS/LCSD 400-327727/2-A/3-A	PAHs	Fluoranthene	66/**131**	**66**	54-128/52
LCS/LCSD 400-327727/2-A/3-A	PAHs	Fluorene	60/118	**64**	45-125/56
LCS/LCSD 400-327727/2-A/3-A	PAHs	Indeno[1,2,3-cd]pyrene	63/123	**65**	43-142/51
LCS/LCSD 400-327727/2-A/3-A	PAHs	Phenanthrene	66/**128**	**64**	48-120/56
LCS/LCSD 400-327727/2-A/3-A	PAHs	Pyrene	61/113	**60**	48-132/52

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. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
P74-ROX-101416	PAHs	Phenanthrene	**J**

Although not listed in this review, several SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs (LCS/LCSD 400-327727/2-A/3-A) associated with sample initial runs (Run #1) were outside evaluation criteria; sample SVOC results were reported from sample confirmation runs (Run#2), and are qualified due to holding time criteria in Section 3.0 of this review. No further qualification of Method 8270 SVOC data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P66-ROX-101416 Run#1	SVOCs	Phenol-d_5	**0.08**	10-120
P66-ROX-101416 Run#1	SVOCs	Terphenyl-d_{14}	**37**	53-125
MB 400-327548/1-A	VOCs by 8011	4-Bromofluorobenzene	**177**	51-149

SVOC data in sample P66-ROX-101416 are reported from the confirmation run (Run#2), and are qualified due to holding time criteria in Section 3.0 of this review. No further qualification of Method 8270 SVOC data was required. Method blank MB 400-327548/1-A is a quality control sample, and does not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, sample MW14-ROX-101416 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW14-ROX-101416	VOCs	2-Chloroethyl vinyl ether	**7/0**	**NC**	10-160/50

LCS/LCSD recoveries were within evaluation criteria, with the exception of those analytes listed in Section 5.0 of this review; no further qualification of data was required.

Although not listed in this review, several SVOC MS/MSD RPDs associated with sample MW14-ROX-101416 Run #1 were outside evaluation criteria; sample SVOC results were reported from sample confirmation runs (Run#2), and are qualified due to holding time criteria in Section 3.0 of this review. No further qualification of Method 8270 SVOC data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
LCSD 400-327727/3-A	SVOCs	Perylene-d_{12}	**803216**	810569-3242276
P66-ROX-101416 Run#1	SVOCs	Chrysene-d_{12}	**953132**	1001107-4004426
P66-ROX-101416 Run #1	SVOCs	Perylene-d_{12}	**668409**	810569-3242276

SVOC data in sample P66-ROX-101416 are reported from the confirmation run (Run#2), and are qualified due to holding time criteria in Section 3.0 of this review. No further

qualification of Method 8270 SVOC data was required. LCSD 400-327727/3-A is a quality control sample, and does not require qualification. No qualification of data was required.

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was also used to qualify as estimated, however not reject, data that was only associated with equipment blank MW14-ROX-101416-EB. Di-n-octyl phthalate in samples MW14-ROX-101416 Run#2 and P74-ROX-101416 Run#2 was previously qualified in Section 3.0 of this review due to extraction time exceedances; no further qualification of di-n-octyl phthalate was required.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW14-ROX-101416	PAHs	1-Methylnaphthalene	-	**J**
MW14-ROX-101416	PAHs	2-Methylnaphthalene	-	**J**

Additionally, the continuing calibration verification for diethyl phthalate was below acceptance criteria; however diethyl phthalate was previously qualified due to holding time criteria in Section 3.0 of this review. No additional qualification of diethyl phthalate was required.

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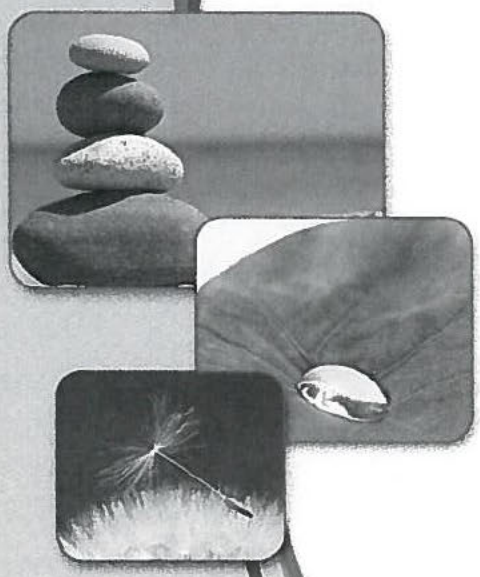

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128764-1
TestAmerica SDG: Proj. 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn N. Hooper

Authorized for release by:
11/7/2016 6:20:37 PM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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Reviewed 11/29/2016

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128764-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128764-1

Receipt
The samples were received on 10/15/2016 9:13 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 3.2°C, 3.4°C and 3.9°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328230 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-328230 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW14-ROX-101416-EB (400-128764-1), MW14-ROX-101416 (400-128764-2), P66-ROX-101416 (400-128764-3), P74-ROX-101416 (400-128764-4) and TB-ROX-101416-8260 (400-128764-5). The requested target analyte list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which an acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270D: The method blank for preparation batch 400-327727 and analytical batch 400-327977 contained 1,4-Dioxane and Bis(2-chloroethyl)ether above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-327727 and analytical batch 400-327977 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: P66-ROX-101416 (400-128764-3). These results have been reported and qualified.

Internal standard responses were outside of acceptance limits for the following sample: P66-ROX-101416 (400-128764-3). The sample shows evidence of matrix interference.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-327727 and analytical batch 400-327977 were outside control limits. Sample matrix interference is suspected.

The continuing calibration verification (CCV) analyzed in batch 400-329333 was outside the method criteria for the following analyte(s): Diethyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 400-329333 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW14-ROX-101416-EB (400-128764-1), MW14-ROX-101416 (400-128764-2), MW14-ROX-101416-MS (400-128764-2[MS]), MW14-ROX-101416-MSD (400-128764-2[MSD]), P66-ROX-101416 (400-128764-3) and P74-ROX-101416 (400-128764-4).

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-328762 and analytical batch 400-329333 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also

Job ID: 400-128764-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

exceeded control limits for these analyte(s). These results have been reported and qualified.

The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for preparation batch 400-327727 and 400-328762 and analytical batch 400-327977 recovered outside control limits for the flagged analytes. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

Method 8270D LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 400-327727 recovered outside control limits for the following analytes: Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Phenanthrene and Pyrene.

The laboratory control sample (LCSD)) for preparation batch 400-327727 and analytical batch 400-328097 recovered outside control limits for the following analytes: Benzo[a]pyrene, Benzo[b]fluoranthene, Fluoranthene and Phenanthrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

GC Semi VOA
Method 8011: The surrogate recovery for the blank and LCS associated with batch 327548 were outside the upper control limits. The surrogate recovery in the associated samples met acceptance criteria.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-328762.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128764-1	MW14-ROX-101416-EB	Water	10/14/16 09:40	10/15/16 09:13
400-128764-2	MW14-ROX-101416	Water	10/14/16 10:40	10/15/16 09:13
400-128764-3	P66-ROX-101416	Water	10/14/16 12:05	10/15/16 09:13
400-128764-4	P74-ROX-101416	Water	10/14/16 14:40	10/15/16 09:13
400-128764-5	TB-ROX-101416-8260	Water	10/14/16 00:00	10/15/16 09:13
400-128764-6	TB-ROX-101416-8011	Water	10/14/16 00:00	10/15/16 09:13

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Client Sample ID: MW14-ROX-101416-EB — Lab Sample ID: 400-128764-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.022	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.038	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-chloroethoxy)methane	5.8	J B *	9.5	0.66	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate - RERA	0.51	J H	9.5	0.42	ug/L	1		8270D	Total/NA

Client Sample ID: MW14-ROX-101416 — Lab Sample ID: 400-128764-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.054	J *	0.19	0.019	ug/L	1		8270D LL	Total/NA
Fluorene	0.040	J *	0.19	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.095	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.046	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-chloroethoxy)methane	2.4	J B *	9.5	0.66	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate - RERA	0.55	J H	9.5	0.42	ug/L	1		8270D	Total/NA

Client Sample ID: P66-ROX-101416 — Lab Sample ID: 400-128764-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.9		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	4.9	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	9.1		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	71		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	22		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	3.9	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	67		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	4.0		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	95		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	1.0	J	5.0	0.60	ug/L	1		8260B	Total/NA
sec-Butylbenzene	7.6		1.0	0.70	ug/L	1		8260B	Total/NA
tert-Butylbenzene	3.8		1.0	0.63	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	24		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.4		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	4.9	J	10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	1.0	*	0.95	0.095	ug/L	5		8270D LL	Total/NA
Fluorene	1.0	*	0.95	0.10	ug/L	5		8270D LL	Total/NA
Pyrene	0.11	J *	0.95	0.095	ug/L	5		8270D LL	Total/NA
1-Methylnaphthalene	56		0.95	0.095	ug/L	5		8270D LL	Total/NA
2-Methylnaphthalene	28		0.95	0.095	ug/L	5		8270D LL	Total/NA
Benzoic acid - RERA	19	J H	29	7.0	ug/L	1		8270D	Total/NA
Indene - RERA	2.8	J H	9.5	0.95	ug/L	1		8270D	Total/NA

Client Sample ID: P74-ROX-101416 — Lab Sample ID: 400-128764-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	2.0		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.63	J	1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	3.5	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	3.8		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.2		1.0	0.69	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P74-ROX-101416 (Continued)

Lab Sample ID: 400-128764-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.79	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	1.5		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	13		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	5.0		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	4.3	J	10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.064	J *	0.19	0.019	ug/L	1		8270D LL	Total/NA
Fluorene	0.086	J *	0.19	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.034	J * J	0.19	0.019	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	1.7		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	1.8		0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-chloroethoxy)methane	1.3	J B *	9.5	0.66	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate	0.53	J *	9.5	0.42	ug/L	1		8270D	Total/NA
Di-n-octyl phthalate - RERA	0.47	J H J	9.5	0.42	ug/L	1		8270D	Total/NA

Client Sample ID: TB-ROX-101416-8260

Lab Sample ID: 400-128764-5

No Detections.

Client Sample ID: TB-ROX-101416-8011

Lab Sample ID: 400-128764-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW14-ROX-101416-EB
Date Collected: 10/14/16 09:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 22:38	1
Acrolein	ND		20	10	ug/L			10/25/16 22:38	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 22:38	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 22:38	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 22:38	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 22:38	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 22:38	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 22:38	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 22:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 22:38	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 22:38	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 22:38	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 22:38	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 22:38	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 22:38	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 22:38	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 22:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 22:38	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 22:38	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 22:38	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 22:38	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 22:38	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 22:38	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 22:38	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 22:38	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 22:38	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 22:38	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 22:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 22:38	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 22:38	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 22:38	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 22:38	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 22:38	1

Client Sample ID: MW14-ROX-101416-EB
Date Collected: 10/14/16 09:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 22:38	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 22:38	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 22:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 22:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 22:38	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 22:38	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 22:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 22:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 22:38	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 22:38	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 22:38	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 22:38	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 22:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 22:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 22:38	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 22:38	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 22:38	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/25/16 22:38*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 22:38*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/25/16 22:38*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
Acenaphthylene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
Anthracene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
Benzo[a]anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Benzo[a]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Benzo[b]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Benzo[g,h,i]perylene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Benzo[k]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Chrysene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Dibenz(a,h)anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Fluoranthene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
Fluorene	ND	*	0.19	0.020	ug/L		10/21/16 11:03	10/24/16 19:43	1
Indeno[1,2,3-cd]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:43	1
Phenanthrene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
Pyrene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
1-Methylnaphthalene	**0.022**	J	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1
2-Methylnaphthalene	**0.038**	J	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*110*		*33 - 138*	*10/21/16 11:03*	*10/24/16 19:43*	*1*
2-Fluorobiphenyl	*87*		*15 - 122*	*10/21/16 11:03*	*10/24/16 19:43*	*1*

Client Sample ID: MW14-ROX-101416-EB
Date Collected: 10/14/16 09:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*85*		*19 - 130*	*10/21/16 11:03*	*10/24/16 19:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 17:37	1
Benzenethiol	ND	*	9.5	1.6	ug/L		10/21/16 11:03	10/24/16 17:37	1
Benzoic acid	ND	*	29	7.0	ug/L		10/21/16 11:03	10/24/16 17:37	1
Benzyl alcohol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 17:37	1
Bis(2-chloroethoxy)methane	5.8	J B *	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 17:37	1
Bis(2-chloroethyl)ether	ND	*	9.5	0.70	ug/L		10/21/16 11:03	10/24/16 17:37	1
bis (2-chloroisopropyl) ether	ND	*	9.5	0.77	ug/L		10/21/16 11:03	10/24/16 17:37	1
Bis(2-ethylhexyl) phthalate	ND	*	9.5	2.2	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Bromophenyl phenyl ether	ND	*	9.5	0.30	ug/L		10/21/16 11:03	10/24/16 17:37	1
Butyl benzyl phthalate	ND	*	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Chloroaniline	ND	*	9.5	3.2	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Chloro-3-methylphenol	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 17:37	1
2-Chloronaphthalene	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 17:37	1
2-Chlorophenol	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Chlorophenyl phenyl ether	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 17:37	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 17:37	1
Dibenzofuran	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 17:37	1
3,3'-Dichlorobenzidine	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4-Dichlorophenol	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 17:37	1
Diethyl phthalate	ND	*	9.5	0.67	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4-Dimethylphenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 17:37	1
Dimethyl phthalate	ND	*	9.5	0.57	ug/L		10/21/16 11:03	10/24/16 17:37	1
Di-n-butyl phthalate	ND	*	9.5	2.6	ug/L		10/21/16 11:03	10/24/16 17:37	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,6-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 17:37	1
Di-n-octyl phthalate	ND	*	9.5	0.42	ug/L		10/21/16 11:03	10/24/16 17:37	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/21/16 11:03	10/24/16 17:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 17:37	1
Hexachlorobenzene	ND	*	9.5	0.24	ug/L		10/21/16 11:03	10/24/16 17:37	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		10/21/16 11:03	10/24/16 17:37	1
Hexachloroethane	ND	*	9.5	4.0	ug/L		10/21/16 11:03	10/24/16 17:37	1
Indene	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 17:37	1
Isophorone	ND	*	9.5	0.54	ug/L		10/21/16 11:03	10/24/16 17:37	1
2-Methylphenol	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 17:37	1
3 & 4 Methylphenol	ND	*	19	0.99	ug/L		10/21/16 11:03	10/24/16 17:37	1
2-Nitroaniline	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 17:37	1
3-Nitroaniline	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Nitroaniline	ND	*	9.5	2.4	ug/L		10/21/16 11:03	10/24/16 17:37	1
Nitrobenzene	ND	*	9.5	0.52	ug/L		10/21/16 11:03	10/24/16 17:37	1
2-Nitrophenol	ND	*	9.5	0.62	ug/L		10/21/16 11:03	10/24/16 17:37	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		10/21/16 11:03	10/24/16 17:37	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 17:37	1

Client Sample ID: MW14-ROX-101416-EB
Date Collected: 10/14/16 09:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	*	9.5	3.1	ug/L		10/21/16 11:03	10/24/16 17:37	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		10/21/16 11:03	10/24/16 17:37	1
Pentachlorophenol	ND	*	19	1.7	ug/L		10/21/16 11:03	10/24/16 17:37	1
Phenol	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 17:37	1
Pyridine	ND		9.5	3.0	ug/L		10/21/16 11:03	10/24/16 17:37	1
Quinoline	ND	*	9.5	5.7	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4,5-Trichlorophenol	ND	*	9.5	3.5	ug/L		10/21/16 11:03	10/24/16 17:37	1
2,4,6-Trichlorophenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/21/16 11:03*	*10/24/16 17:37*	*1*
2-Fluorophenol	*33*		*10 - 120*	*10/21/16 11:03*	*10/24/16 17:37*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/21/16 11:03*	*10/24/16 17:37*	*1*
Phenol-d5	*48*		*10 - 120*	*10/21/16 11:03*	*10/24/16 17:37*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/21/16 11:03*	*10/24/16 17:37*	*1*
2,4,6-Tribromophenol	*58*		*15 - 135*	*10/21/16 11:03*	*10/24/16 17:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 20:09	1
Benzenethiol	ND	H *	9.5	1.6	ug/L		10/28/16 14:18	11/02/16 20:09	1
Benzoic acid	ND	H	29	7.0	ug/L		10/28/16 14:18	11/02/16 20:09	1
Benzyl alcohol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 20:09	1
Bis(2-chloroethoxy)methane	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 20:09	1
Bis(2-chloroethyl)ether	ND	H	9.5	0.70	ug/L		10/28/16 14:18	11/02/16 20:09	1
bis (2-chloroisopropyl) ether	ND	H	9.5	0.77	ug/L		10/28/16 14:18	11/02/16 20:09	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	2.2	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Bromophenyl phenyl ether	ND	H	9.5	0.30	ug/L		10/28/16 14:18	11/02/16 20:09	1
Butyl benzyl phthalate	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Chloroaniline	ND	H	9.5	3.2	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Chloro-3-methylphenol	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 20:09	1
2-Chloronaphthalene	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 20:09	1
2-Chlorophenol	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Chlorophenyl phenyl ether	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 20:09	1
Dibenz[a,h]acridine	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 20:09	1
Dibenzofuran	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 20:09	1
3,3'-Dichlorobenzidine	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4-Dichlorophenol	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 20:09	1
Diethyl phthalate	ND	H	9.5	0.67	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4-Dimethylphenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 20:09	1
Dimethyl phthalate	ND	H	9.5	0.57	ug/L		10/28/16 14:18	11/02/16 20:09	1
Di-n-butyl phthalate	ND	H	9.5	2.6	ug/L		10/28/16 14:18	11/02/16 20:09	1
4,6-Dinitro-ortho-cresol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4-Dinitrophenol	ND	H	29	3.2	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,6-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 20:09	1
Di-n-octyl phthalate	**0.51**	**J H**	9.5	0.42	ug/L		10/28/16 14:18	11/02/16 20:09	1
1,4-Dioxane	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 20:09	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 20:09	1

Client Sample ID: MW14-ROX-101416-EB
Date Collected: 10/14/16 09:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	9.5	0.24	ug/L		10/28/16 14:18	11/02/16 20:09	1
Hexachlorocyclopentadiene	ND	H	19	2.5	ug/L		10/28/16 14:18	11/02/16 20:09	1
Hexachloroethane	ND	H	9.5	4.0	ug/L		10/28/16 14:18	11/02/16 20:09	1
Indene	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 20:09	1
Isophorone	ND	H	9.5	0.54	ug/L		10/28/16 14:18	11/02/16 20:09	1
2-Methylphenol	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 20:09	1
3 & 4 Methylphenol	ND	H	19	0.99	ug/L		10/28/16 14:18	11/02/16 20:09	1
2-Nitroaniline	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 20:09	1
3-Nitroaniline	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Nitroaniline	ND	H	9.5	2.4	ug/L		10/28/16 14:18	11/02/16 20:09	1
Nitrobenzene	ND	H	9.5	0.52	ug/L		10/28/16 14:18	11/02/16 20:09	1
2-Nitrophenol	ND	H	9.5	0.62	ug/L		10/28/16 14:18	11/02/16 20:09	1
4-Nitrophenol	ND	H	9.5	2.0	ug/L		10/28/16 14:18	11/02/16 20:09	1
N-Nitrosodimethylamine	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 20:09	1
N-Nitrosodi-n-propylamine	ND	H	9.5	3.1	ug/L		10/28/16 14:18	11/02/16 20:09	1
N-Nitrosodiphenylamine	ND	H	9.5	0.45	ug/L		10/28/16 14:18	11/02/16 20:09	1
Pentachlorophenol	ND	H	19	1.7	ug/L		10/28/16 14:18	11/02/16 20:09	1
Phenol	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 20:09	1
Pyridine	ND	H	9.5	3.0	ug/L		10/28/16 14:18	11/02/16 20:09	1
Quinoline	ND	H	9.5	5.7	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4,5-Trichlorophenol	ND	H	9.5	3.5	ug/L		10/28/16 14:18	11/02/16 20:09	1
2,4,6-Trichlorophenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/28/16 14:18*	*11/02/16 20:09*	*1*
2-Fluorophenol	*63*		*10 - 120*	*10/28/16 14:18*	*11/02/16 20:09*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/28/16 14:18*	*11/02/16 20:09*	*1*
Phenol-d5	*73*		*10 - 120*	*10/28/16 14:18*	*11/02/16 20:09*	*1*
Terphenyl-d14	*99*		*53 - 125*	*10/28/16 14:18*	*11/02/16 20:09*	*1*
2,4,6-Tribromophenol	*101*		*15 - 135*	*10/28/16 14:18*	*11/02/16 20:09*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/20/16 10:29	10/21/16 12:14	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/20/16 10:29	10/21/16 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*131*		*51 - 149*	*10/20/16 10:29*	*10/21/16 12:14*	*1*

Client Sample ID: MW14-ROX-101416
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 19:34	1
Acrolein	ND		20	10	ug/L			10/25/16 19:34	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 19:34	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 19:34	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 19:34	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 19:34	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 19:34	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 19:34	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 19:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 19:34	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/25/16 19:34	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 19:34	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 19:34	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 19:34	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 19:34	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 19:34	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 19:34	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 19:34	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 19:34	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 19:34	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 19:34	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 19:34	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 19:34	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 19:34	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 19:34	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 19:34	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 19:34	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 19:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 19:34	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 19:34	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 19:34	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 19:34	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 19:34	1

Client Sample ID: MW14-ROX-101416
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 19:34	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 19:34	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 19:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 19:34	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 19:34	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 19:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 19:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 19:34	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 19:34	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 19:34	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 19:34	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 19:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 19:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 19:34	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 19:34	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 19:34	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/25/16 19:34*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/25/16 19:34*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/25/16 19:34*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.054**	**J ***	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
Acenaphthylene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
Anthracene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
Benzo[a]anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Benzo[a]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Benzo[b]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Benzo[g,h,i]perylene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Benzo[k]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Chrysene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Dibenz(a,h)anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Fluoranthene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
Fluorene	**0.040**	**J ***	0.19	0.020	ug/L		10/21/16 11:03	10/24/16 18:34	1
Indeno[1,2,3-cd]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 18:34	1
Phenanthrene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
Pyrene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
1-Methylnaphthalene	**0.095**	**J**	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1
2-Methylnaphthalene	**0.046**	**J**	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*83*		*33 - 138*	*10/21/16 11:03*	*10/24/16 18:34*	*1*
2-Fluorobiphenyl	*87*		*15 - 122*	*10/21/16 11:03*	*10/24/16 18:34*	*1*

Client Sample ID: MW14-ROX-101416
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*19 - 130*	*10/21/16 11:03*	*10/24/16 18:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 18:10	1
Benzenethiol	ND	*	9.5	1.6	ug/L		10/21/16 11:03	10/24/16 18:10	1
Benzoic acid	ND	F2 *	29	7.0	ug/L		10/21/16 11:03	10/24/16 18:10	1
Benzyl alcohol	ND	F2 *	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 18:10	1
Bis(2-chloroethoxy)methane	2.4	J B *	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 18:10	1
Bis(2-chloroethyl)ether	ND	F2 *	9.5	0.70	ug/L		10/21/16 11:03	10/24/16 18:10	1
bis (2-chloroisopropyl) ether	ND	F2 *	9.5	0.77	ug/L		10/21/16 11:03	10/24/16 18:10	1
Bis(2-ethylhexyl) phthalate	ND	*	9.5	2.2	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Bromophenyl phenyl ether	ND	*	9.5	0.30	ug/L		10/21/16 11:03	10/24/16 18:10	1
Butyl benzyl phthalate	ND	*	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Chloroaniline	ND	*	9.5	3.2	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Chloro-3-methylphenol	ND	F2 *	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 18:10	1
2-Chloronaphthalene	ND	F2 *	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 18:10	1
2-Chlorophenol	ND	F2 *	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Chlorophenyl phenyl ether	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 18:10	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 18:10	1
Dibenzofuran	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 18:10	1
3,3'-Dichlorobenzidine	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4-Dichlorophenol	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 18:10	1
Diethyl phthalate	ND	*	9.5	0.67	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4-Dimethylphenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 18:10	1
Dimethyl phthalate	ND	*	9.5	0.57	ug/L		10/21/16 11:03	10/24/16 18:10	1
Di-n-butyl phthalate	ND	*	9.5	2.6	ug/L		10/21/16 11:03	10/24/16 18:10	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,6-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 18:10	1
Di-n-octyl phthalate	ND	*	9.5	0.42	ug/L		10/21/16 11:03	10/24/16 18:10	1
1,4-Dioxane	ND	F2	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 18:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 18:10	1
Hexachlorobenzene	ND	*	9.5	0.24	ug/L		10/21/16 11:03	10/24/16 18:10	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		10/21/16 11:03	10/24/16 18:10	1
Hexachloroethane	ND	F2 *	9.5	4.0	ug/L		10/21/16 11:03	10/24/16 18:10	1
Indene	ND	F2 *	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 18:10	1
Isophorone	ND	F2 *	9.5	0.54	ug/L		10/21/16 11:03	10/24/16 18:10	1
2-Methylphenol	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 18:10	1
3 & 4 Methylphenol	ND	*	19	0.99	ug/L		10/21/16 11:03	10/24/16 18:10	1
2-Nitroaniline	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 18:10	1
3-Nitroaniline	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Nitroaniline	ND	*	9.5	2.4	ug/L		10/21/16 11:03	10/24/16 18:10	1
Nitrobenzene	ND	F2 *	9.5	0.52	ug/L		10/21/16 11:03	10/24/16 18:10	1
2-Nitrophenol	ND	F2 *	9.5	0.62	ug/L		10/21/16 11:03	10/24/16 18:10	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		10/21/16 11:03	10/24/16 18:10	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 18:10	1

Client Sample ID: MW14-ROX-101416
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	F2 *	9.5	3.1	ug/L		10/21/16 11:03	10/24/16 18:10	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		10/21/16 11:03	10/24/16 18:10	1
Pentachlorophenol	ND	*	19	1.7	ug/L		10/21/16 11:03	10/24/16 18:10	1
Phenol	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 18:10	1
Pyridine	ND	F2	9.5	3.0	ug/L		10/21/16 11:03	10/24/16 18:10	1
Quinoline	ND	*	9.5	5.7	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4,5-Trichlorophenol	ND	*	9.5	3.5	ug/L		10/21/16 11:03	10/24/16 18:10	1
2,4,6-Trichlorophenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/21/16 11:03*	*10/24/16 18:10*	*1*
2-Fluorophenol	*25*		*10 - 120*	*10/21/16 11:03*	*10/24/16 18:10*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/21/16 11:03*	*10/24/16 18:10*	*1*
Phenol-d5	*46*		*10 - 120*	*10/21/16 11:03*	*10/24/16 18:10*	*1*
Terphenyl-d14	*70*		*53 - 125*	*10/21/16 11:03*	*10/24/16 18:10*	*1*
2,4,6-Tribromophenol	*47*		*15 - 135*	*10/21/16 11:03*	*10/24/16 18:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 18:38	1
Benzenethiol	ND	H *	9.5	1.6	ug/L		10/28/16 14:18	11/02/16 18:38	1
Benzoic acid	ND	H	29	7.0	ug/L		10/28/16 14:18	11/02/16 18:38	1
Benzyl alcohol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 18:38	1
Bis(2-chloroethoxy)methane	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 18:38	1
Bis(2-chloroethyl)ether	ND	H	9.5	0.70	ug/L		10/28/16 14:18	11/02/16 18:38	1
bis (2-chloroisopropyl) ether	ND	H	9.5	0.77	ug/L		10/28/16 14:18	11/02/16 18:38	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	2.2	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Bromophenyl phenyl ether	ND	H	9.5	0.30	ug/L		10/28/16 14:18	11/02/16 18:38	1
Butyl benzyl phthalate	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Chloroaniline	ND	H	9.5	3.2	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Chloro-3-methylphenol	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 18:38	1
2-Chloronaphthalene	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 18:38	1
2-Chlorophenol	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Chlorophenyl phenyl ether	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 18:38	1
Dibenz[a,h]acridine	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 18:38	1
Dibenzofuran	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 18:38	1
3,3'-Dichlorobenzidine	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4-Dichlorophenol	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 18:38	1
Diethyl phthalate	ND	H	9.5	0.67	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4-Dimethylphenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 18:38	1
Dimethyl phthalate	ND	H	9.5	0.57	ug/L		10/28/16 14:18	11/02/16 18:38	1
Di-n-butyl phthalate	ND	H	9.5	2.6	ug/L		10/28/16 14:18	11/02/16 18:38	1
4,6-Dinitro-ortho-cresol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4-Dinitrophenol	ND	H	29	3.2	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,6-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 18:38	1
Di-n-octyl phthalate	**0.55**	**J H**	9.5	0.42	ug/L		10/28/16 14:18	11/02/16 18:38	1
1,4-Dioxane	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 18:38	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 18:38	1

Client Sample ID: MW14-ROX-101416
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	9.5	0.24	ug/L		10/28/16 14:18	11/02/16 18:38	1
Hexachlorocyclopentadiene	ND	H	19	2.5	ug/L		10/28/16 14:18	11/02/16 18:38	1
Hexachloroethane	ND	H	9.5	4.0	ug/L		10/28/16 14:18	11/02/16 18:38	1
Indene	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 18:38	1
Isophorone	ND	H	9.5	0.54	ug/L		10/28/16 14:18	11/02/16 18:38	1
2-Methylphenol	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 18:38	1
3 & 4 Methylphenol	ND	H	19	0.99	ug/L		10/28/16 14:18	11/02/16 18:38	1
2-Nitroaniline	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 18:38	1
3-Nitroaniline	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Nitroaniline	ND	H	9.5	2.4	ug/L		10/28/16 14:18	11/02/16 18:38	1
Nitrobenzene	ND	H	9.5	0.52	ug/L		10/28/16 14:18	11/02/16 18:38	1
2-Nitrophenol	ND	H	9.5	0.62	ug/L		10/28/16 14:18	11/02/16 18:38	1
4-Nitrophenol	ND	H	9.5	2.0	ug/L		10/28/16 14:18	11/02/16 18:38	1
N-Nitrosodimethylamine	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 18:38	1
N-Nitrosodi-n-propylamine	ND	H	9.5	3.1	ug/L		10/28/16 14:18	11/02/16 18:38	1
N-Nitrosodiphenylamine	ND	H	9.5	0.45	ug/L		10/28/16 14:18	11/02/16 18:38	1
Pentachlorophenol	ND	H	19	1.7	ug/L		10/28/16 14:18	11/02/16 18:38	1
Phenol	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 18:38	1
Pyridine	ND	H	9.5	3.0	ug/L		10/28/16 14:18	11/02/16 18:38	1
Quinoline	ND	H	9.5	5.7	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4,5-Trichlorophenol	ND	H	9.5	3.5	ug/L		10/28/16 14:18	11/02/16 18:38	1
2,4,6-Trichlorophenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/28/16 14:18*	*11/02/16 18:38*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/28/16 14:18*	*11/02/16 18:38*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*10/28/16 14:18*	*11/02/16 18:38*	*1*
Phenol-d5	*59*		*10 - 120*	*10/28/16 14:18*	*11/02/16 18:38*	*1*
Terphenyl-d14	*77*		*53 - 125*	*10/28/16 14:18*	*11/02/16 18:38*	*1*
2,4,6-Tribromophenol	*106*		*15 - 135*	*10/28/16 14:18*	*11/02/16 18:38*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 13:14	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/20/16 10:29*	*10/21/16 13:14*	*1*

Client Sample ID: P66-ROX-101416
Date Collected: 10/14/16 12:05
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 23:01	1
Acrolein	ND		20	10	ug/L			10/25/16 23:01	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 23:01	1
Benzene	**6.9**		1.0	0.38	ug/L			10/25/16 23:01	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 23:01	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 23:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 23:01	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 23:01	1
2-Butanone (MEK)	**4.9**	J	25	2.6	ug/L			10/25/16 23:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 23:01	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 23:01	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 23:01	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 23:01	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 23:01	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 23:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 23:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 23:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Ethylbenzene	**9.1**		1.0	0.50	ug/L			10/25/16 23:01	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 23:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 23:01	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 23:01	1
Isopropylbenzene	**71**		1.0	0.53	ug/L			10/25/16 23:01	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 23:01	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 23:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 23:01	1
Methyl tert-butyl ether	**22**		1.0	0.74	ug/L			10/25/16 23:01	1
m-Xylene & p-Xylene	**3.9**	J	5.0	1.6	ug/L			10/25/16 23:01	1
Naphthalene	**67**		1.0	1.0	ug/L			10/25/16 23:01	1
n-Butylbenzene	**4.0**		1.0	0.76	ug/L			10/25/16 23:01	1
N-Propylbenzene	**95**		1.0	0.69	ug/L			10/25/16 23:01	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 23:01	1
o-Xylene	**1.0**	J	5.0	0.60	ug/L			10/25/16 23:01	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 23:01	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 23:01	1

Client Sample ID: P66-ROX-101416
Date Collected: 10/14/16 12:05
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**7.6**		1.0	0.70	ug/L			10/25/16 23:01	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 23:01	1
tert-Butylbenzene	**3.8**		1.0	0.63	ug/L			10/25/16 23:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 23:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 23:01	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 23:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 23:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 23:01	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:01	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 23:01	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 23:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 23:01	1
1,2,4-Trimethylbenzene	**24**		1.0	0.82	ug/L			10/25/16 23:01	1
1,3,5-Trimethylbenzene	**1.4**		1.0	0.56	ug/L			10/25/16 23:01	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 23:01	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 23:01	1
Xylenes, Total	**4.9**	J	10	1.6	ug/L			10/25/16 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/25/16 23:01*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/25/16 23:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/25/16 23:01*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.0**	*	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
Acenaphthylene	ND	*	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
Anthracene	ND	*	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
Benzo[a]anthracene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Benzo[a]pyrene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Benzo[b]fluoranthene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Benzo[g,h,i]perylene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Benzo[k]fluoranthene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Chrysene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Dibenz(a,h)anthracene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Fluoranthene	ND	*	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
Fluorene	**1.0**	*	0.95	0.10	ug/L		10/21/16 11:03	10/24/16 18:57	5
Indeno[1,2,3-cd]pyrene	ND	*	0.95	0.19	ug/L		10/21/16 11:03	10/24/16 18:57	5
Phenanthrene	ND	*	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
Pyrene	**0.11**	J *	0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
1-Methylnaphthalene	**56**		0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5
2-Methylnaphthalene	**28**		0.95	0.095	ug/L		10/21/16 11:03	10/24/16 18:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*35*		*33 - 138*	*10/21/16 11:03*	*10/24/16 18:57*	*5*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/21/16 11:03*	*10/24/16 18:57*	*5*

Client Sample ID: P66-ROX-101416
Date Collected: 10/14/16 12:05
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		19 - 130	10/21/16 11:03	10/24/16 18:57	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 19:51	1
Benzenethiol	ND	*	9.5	1.6	ug/L		10/21/16 11:03	10/24/16 19:51	1
Benzoic acid	ND	*	29	7.0	ug/L		10/21/16 11:03	10/24/16 19:51	1
Benzyl alcohol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 19:51	1
Bis(2-chloroethoxy)methane	ND	*	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 19:51	1
Bis(2-chloroethyl)ether	ND	*	9.5	0.70	ug/L		10/21/16 11:03	10/24/16 19:51	1
bis (2-chloroisopropyl) ether	ND	*	9.5	0.77	ug/L		10/21/16 11:03	10/24/16 19:51	1
Bis(2-ethylhexyl) phthalate	ND	*	9.5	2.2	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Bromophenyl phenyl ether	ND	*	9.5	0.30	ug/L		10/21/16 11:03	10/24/16 19:51	1
Butyl benzyl phthalate	ND	*	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Chloroaniline	ND	*	9.5	3.2	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Chloro-3-methylphenol	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 19:51	1
2-Chloronaphthalene	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 19:51	1
2-Chlorophenol	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Chlorophenyl phenyl ether	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 19:51	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 19:51	1
Dibenzofuran	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 19:51	1
3,3'-Dichlorobenzidine	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4-Dichlorophenol	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 19:51	1
Diethyl phthalate	ND	*	9.5	0.67	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4-Dimethylphenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 19:51	1
Dimethyl phthalate	ND	*	9.5	0.57	ug/L		10/21/16 11:03	10/24/16 19:51	1
Di-n-butyl phthalate	ND	*	9.5	2.6	ug/L		10/21/16 11:03	10/24/16 19:51	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,6-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 19:51	1
Di-n-octyl phthalate	ND	*	9.5	0.42	ug/L		10/21/16 11:03	10/25/16 20:21	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/21/16 11:03	10/24/16 19:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 19:51	1
Hexachlorobenzene	ND	*	9.5	0.24	ug/L		10/21/16 11:03	10/24/16 19:51	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		10/21/16 11:03	10/24/16 19:51	1
Hexachloroethane	ND	*	9.5	4.0	ug/L		10/21/16 11:03	10/24/16 19:51	1
Indene	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 19:51	1
Isophorone	ND	*	9.5	0.54	ug/L		10/21/16 11:03	10/24/16 19:51	1
2-Methylphenol	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 19:51	1
3 & 4 Methylphenol	ND	*	19	0.99	ug/L		10/21/16 11:03	10/24/16 19:51	1
2-Nitroaniline	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 19:51	1
3-Nitroaniline	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Nitroaniline	ND	*	9.5	2.4	ug/L		10/21/16 11:03	10/24/16 19:51	1
Nitrobenzene	ND	*	9.5	0.52	ug/L		10/21/16 11:03	10/24/16 19:51	1
2-Nitrophenol	ND	*	9.5	0.62	ug/L		10/21/16 11:03	10/24/16 19:51	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		10/21/16 11:03	10/24/16 19:51	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 19:51	1

Client Sample ID: P66-ROX-101416
Date Collected: 10/14/16 12:05
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	*	9.5	3.1	ug/L		10/21/16 11:03	10/24/16 19:51	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		10/21/16 11:03	10/24/16 19:51	1
Pentachlorophenol	ND	*	19	1.7	ug/L		10/21/16 11:03	10/24/16 19:51	1
Phenol	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 19:51	1
Pyridine	ND		9.5	3.0	ug/L		10/21/16 11:03	10/24/16 19:51	1
Quinoline	ND	*	9.5	5.7	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4,5-Trichlorophenol	ND	*	9.5	3.5	ug/L		10/21/16 11:03	10/24/16 19:51	1
2,4,6-Trichlorophenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/21/16 11:03*	*10/24/16 19:51*	*1*
2-Fluorophenol	*24*		*10 - 120*	*10/21/16 11:03*	*10/24/16 19:51*	*1*
Nitrobenzene-d5	*69*		*27 - 120*	*10/21/16 11:03*	*10/24/16 19:51*	*1*
Phenol-d5	*0.08*	*X*	*10 - 120*	*10/21/16 11:03*	*10/24/16 19:51*	*1*
Terphenyl-d14	*37*	*X* *	*53 - 125*	*10/21/16 11:03*	*10/24/16 19:51*	*1*
2,4,6-Tribromophenol	*70*		*15 - 135*	*10/21/16 11:03*	*10/24/16 19:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 19:09	1
Benzenethiol	ND	H *	9.5	1.6	ug/L		10/28/16 14:18	11/02/16 19:09	1
Benzoic acid	19	J H	29	7.0	ug/L		10/28/16 14:18	11/02/16 19:09	1
Benzyl alcohol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:09	1
Bis(2-chloroethoxy)methane	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 19:09	1
Bis(2-chloroethyl)ether	ND	H	9.5	0.70	ug/L		10/28/16 14:18	11/02/16 19:09	1
bis (2-chloroisopropyl) ether	ND	H	9.5	0.77	ug/L		10/28/16 14:18	11/02/16 19:09	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	2.2	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Bromophenyl phenyl ether	ND	H	9.5	0.30	ug/L		10/28/16 14:18	11/02/16 19:09	1
Butyl benzyl phthalate	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Chloroaniline	ND	H	9.5	3.2	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Chloro-3-methylphenol	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 19:09	1
2-Chloronaphthalene	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 19:09	1
2-Chlorophenol	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Chlorophenyl phenyl ether	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:09	1
Dibenz[a,h]acridine	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 19:09	1
Dibenzofuran	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 19:09	1
3,3'-Dichlorobenzidine	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4-Dichlorophenol	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 19:09	1
Diethyl phthalate	ND	H	9.5	0.67	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4-Dimethylphenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:09	1
Dimethyl phthalate	ND	H	9.5	0.57	ug/L		10/28/16 14:18	11/02/16 19:09	1
Di-n-butyl phthalate	ND	H	9.5	2.6	ug/L		10/28/16 14:18	11/02/16 19:09	1
4,6-Dinitro-ortho-cresol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4-Dinitrophenol	ND	H	29	3.2	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,6-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 19:09	1
Di-n-octyl phthalate	ND	H	9.5	0.42	ug/L		10/28/16 14:18	11/02/16 19:09	1
1,4-Dioxane	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:09	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:09	1

Client Sample ID: P66-ROX-101416
Date Collected: 10/14/16 12:05
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	9.5	0.24	ug/L		10/28/16 14:18	11/02/16 19:09	1
Hexachlorocyclopentadiene	ND	H	19	2.5	ug/L		10/28/16 14:18	11/02/16 19:09	1
Hexachloroethane	ND	H	9.5	4.0	ug/L		10/28/16 14:18	11/02/16 19:09	1
Indene	2.8	J H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:09	1
Isophorone	ND	H	9.5	0.54	ug/L		10/28/16 14:18	11/02/16 19:09	1
2-Methylphenol	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 19:09	1
3 & 4 Methylphenol	ND	H	19	0.99	ug/L		10/28/16 14:18	11/02/16 19:09	1
2-Nitroaniline	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 19:09	1
3-Nitroaniline	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Nitroaniline	ND	H	9.5	2.4	ug/L		10/28/16 14:18	11/02/16 19:09	1
Nitrobenzene	ND	H	9.5	0.52	ug/L		10/28/16 14:18	11/02/16 19:09	1
2-Nitrophenol	ND	H	9.5	0.62	ug/L		10/28/16 14:18	11/02/16 19:09	1
4-Nitrophenol	ND	H	9.5	2.0	ug/L		10/28/16 14:18	11/02/16 19:09	1
N-Nitrosodimethylamine	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:09	1
N-Nitrosodi-n-propylamine	ND	H	9.5	3.1	ug/L		10/28/16 14:18	11/02/16 19:09	1
N-Nitrosodiphenylamine	ND	H	9.5	0.45	ug/L		10/28/16 14:18	11/02/16 19:09	1
Pentachlorophenol	ND	H	19	1.7	ug/L		10/28/16 14:18	11/02/16 19:09	1
Phenol	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 19:09	1
Pyridine	ND	H	9.5	3.0	ug/L		10/28/16 14:18	11/02/16 19:09	1
Quinoline	ND	H	9.5	5.7	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4,5-Trichlorophenol	ND	H	9.5	3.5	ug/L		10/28/16 14:18	11/02/16 19:09	1
2,4,6-Trichlorophenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/28/16 14:18*	*11/02/16 19:09*	*1*
2-Fluorophenol	*59*		*10 - 120*	*10/28/16 14:18*	*11/02/16 19:09*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/28/16 14:18*	*11/02/16 19:09*	*1*
Phenol-d5	*74*		*10 - 120*	*10/28/16 14:18*	*11/02/16 19:09*	*1*
Terphenyl-d14	*70*		*53 - 125*	*10/28/16 14:18*	*11/02/16 19:09*	*1*
2,4,6-Tribromophenol	*131*		*15 - 135*	*10/28/16 14:18*	*11/02/16 19:09*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 14:46	10/25/16 03:06	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 14:46	10/25/16 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*10/24/16 14:46*	*10/25/16 03:06*	*1*

Client Sample ID: P74-ROX-101416
Date Collected: 10/14/16 14:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 23:24	1
Acrolein	ND		20	10	ug/L			10/25/16 23:24	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 23:24	1
Benzene	**17**		1.0	0.38	ug/L			10/25/16 23:24	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 23:24	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 23:24	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 23:24	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 23:24	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 23:24	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 23:24	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 23:24	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 23:24	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 23:24	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 23:24	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:24	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 23:24	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 23:24	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 23:24	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Ethylbenzene	**2.0**		1.0	0.50	ug/L			10/25/16 23:24	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 23:24	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 23:24	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 23:24	1
Isopropylbenzene	**0.63**	**J**	1.0	0.53	ug/L			10/25/16 23:24	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 23:24	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 23:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 23:24	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 23:24	1
m-Xylene & p-Xylene	**3.5**	**J**	5.0	1.6	ug/L			10/25/16 23:24	1
Naphthalene	**3.8**		1.0	1.0	ug/L			10/25/16 23:24	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 23:24	1
N-Propylbenzene	**1.2**		1.0	0.69	ug/L			10/25/16 23:24	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 23:24	1
o-Xylene	**0.79**	**J**	5.0	0.60	ug/L			10/25/16 23:24	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 23:24	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 23:24	1

Client Sample ID: P74-ROX-101416
Date Collected: 10/14/16 14:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 23:24	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 23:24	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 23:24	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 23:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 23:24	1
Toluene	**1.5**		1.0	0.70	ug/L			10/25/16 23:24	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 23:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 23:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 23:24	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 23:24	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 23:24	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 23:24	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 23:24	1
1,2,4-Trimethylbenzene	**13**		1.0	0.82	ug/L			10/25/16 23:24	1
1,3,5-Trimethylbenzene	**5.0**		1.0	0.56	ug/L			10/25/16 23:24	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 23:24	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 23:24	1
Xylenes, Total	**4.3**	**J**	10	1.6	ug/L			10/25/16 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/25/16 23:24*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/25/16 23:24*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/25/16 23:24*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.064**	**J ***	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
Acenaphthylene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
Anthracene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
Benzo[a]anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Benzo[a]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Benzo[b]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Benzo[g,h,i]perylene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Benzo[k]fluoranthene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Chrysene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Dibenz(a,h)anthracene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Fluoranthene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
Fluorene	**0.086**	**J ***	0.19	0.020	ug/L		10/21/16 11:03	10/24/16 19:20	1
Indeno[1,2,3-cd]pyrene	ND	*	0.19	0.038	ug/L		10/21/16 11:03	10/24/16 19:20	1
Phenanthrene	**0.034**	**J *** J	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
Pyrene	ND	*	0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
1-Methylnaphthalene	**1.7**		0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1
2-Methylnaphthalene	**1.8**		0.19	0.019	ug/L		10/21/16 11:03	10/24/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*33 - 138*	*10/21/16 11:03*	*10/24/16 19:20*	*1*
2-Fluorobiphenyl	*90*		*15 - 122*	*10/21/16 11:03*	*10/24/16 19:20*	*1*

Client Sample ID: P74-ROX-101416
Date Collected: 10/14/16 14:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		19 - 130	10/21/16 11:03	10/24/16 19:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 20:25	1
Benzenethiol	ND	*	9.5	1.6	ug/L		10/21/16 11:03	10/24/16 20:25	1
Benzoic acid	ND	*	29	7.0	ug/L		10/21/16 11:03	10/24/16 20:25	1
Benzyl alcohol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 20:25	1
Bis(2-chloroethoxy)methane	1.3	J B *	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 20:25	1
Bis(2-chloroethyl)ether	ND	*	9.5	0.70	ug/L		10/21/16 11:03	10/24/16 20:25	1
bis (2-chloroisopropyl) ether	ND	*	9.5	0.77	ug/L		10/21/16 11:03	10/24/16 20:25	1
Bis(2-ethylhexyl) phthalate	ND	*	9.5	2.2	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Bromophenyl phenyl ether	ND	*	9.5	0.30	ug/L		10/21/16 11:03	10/24/16 20:25	1
Butyl benzyl phthalate	ND	*	9.5	0.66	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Chloroaniline	ND	*	9.5	3.2	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Chloro-3-methylphenol	ND	*	9.5	3.6	ug/L		10/21/16 11:03	10/24/16 20:25	1
2-Chloronaphthalene	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 20:25	1
2-Chlorophenol	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Chlorophenyl phenyl ether	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 20:25	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 20:25	1
Dibenzofuran	ND	*	9.5	0.50	ug/L		10/21/16 11:03	10/24/16 20:25	1
3,3'-Dichlorobenzidine	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4-Dichlorophenol	ND	*	9.5	2.9	ug/L		10/21/16 11:03	10/24/16 20:25	1
Diethyl phthalate	ND	*	9.5	0.67	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4-Dimethylphenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 20:25	1
Dimethyl phthalate	ND	*	9.5	0.57	ug/L		10/21/16 11:03	10/24/16 20:25	1
Di-n-butyl phthalate	ND	*	9.5	2.6	ug/L		10/21/16 11:03	10/24/16 20:25	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,6-Dinitrotoluene	ND	*	9.5	1.8	ug/L		10/21/16 11:03	10/24/16 20:25	1
Di-n-octyl phthalate	0.53	J *	9.5	0.42	ug/L		10/21/16 11:03	10/24/16 20:25	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/21/16 11:03	10/24/16 20:25	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 20:25	1
Hexachlorobenzene	ND	*	9.5	0.24	ug/L		10/21/16 11:03	10/24/16 20:25	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		10/21/16 11:03	10/24/16 20:25	1
Hexachloroethane	ND	*	9.5	4.0	ug/L		10/21/16 11:03	10/24/16 20:25	1
Indene	ND	*	9.5	0.95	ug/L		10/21/16 11:03	10/24/16 20:25	1
Isophorone	ND	*	9.5	0.54	ug/L		10/21/16 11:03	10/24/16 20:25	1
2-Methylphenol	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 20:25	1
3 & 4 Methylphenol	ND	*	19	0.99	ug/L		10/21/16 11:03	10/24/16 20:25	1
2-Nitroaniline	ND	*	9.5	2.1	ug/L		10/21/16 11:03	10/24/16 20:25	1
3-Nitroaniline	ND	*	9.5	1.7	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Nitroaniline	ND	*	9.5	2.4	ug/L		10/21/16 11:03	10/24/16 20:25	1
Nitrobenzene	ND	*	9.5	0.52	ug/L		10/21/16 11:03	10/24/16 20:25	1
2-Nitrophenol	ND	*	9.5	0.62	ug/L		10/21/16 11:03	10/24/16 20:25	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		10/21/16 11:03	10/24/16 20:25	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 20:25	1

Client Sample ID: P74-ROX-101416
Date Collected: 10/14/16 14:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	*	9.5	3.1	ug/L		10/21/16 11:03	10/24/16 20:25	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		10/21/16 11:03	10/24/16 20:25	1
Pentachlorophenol	ND	*	19	1.7	ug/L		10/21/16 11:03	10/24/16 20:25	1
Phenol	ND	*	9.5	2.5	ug/L		10/21/16 11:03	10/24/16 20:25	1
Pyridine	ND		9.5	3.0	ug/L		10/21/16 11:03	10/24/16 20:25	1
Quinoline	ND	*	9.5	5.7	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4,5-Trichlorophenol	ND	*	9.5	3.5	ug/L		10/21/16 11:03	10/24/16 20:25	1
2,4,6-Trichlorophenol	ND	*	9.5	3.3	ug/L		10/21/16 11:03	10/24/16 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/21/16 11:03*	*10/24/16 20:25*	*1*
2-Fluorophenol	*15*		*10 - 120*	*10/21/16 11:03*	*10/24/16 20:25*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*10/21/16 11:03*	*10/24/16 20:25*	*1*
Phenol-d5	*45*		*10 - 120*	*10/21/16 11:03*	*10/24/16 20:25*	*1*
Terphenyl-d14	*68*		*53 - 125*	*10/21/16 11:03*	*10/24/16 20:25*	*1*
2,4,6-Tribromophenol	*75*		*15 - 135*	*10/21/16 11:03*	*10/24/16 20:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 19:39	1
Benzenethiol	ND	H *	9.5	1.6	ug/L		10/28/16 14:18	11/02/16 19:39	1
Benzoic acid	ND	H	29	7.0	ug/L		10/28/16 14:18	11/02/16 19:39	1
Benzyl alcohol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:39	1
Bis(2-chloroethoxy)methane	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 19:39	1
Bis(2-chloroethyl)ether	ND	H	9.5	0.70	ug/L		10/28/16 14:18	11/02/16 19:39	1
bis (2-chloroisopropyl) ether	ND	H	9.5	0.77	ug/L		10/28/16 14:18	11/02/16 19:39	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	2.2	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Bromophenyl phenyl ether	ND	H	9.5	0.30	ug/L		10/28/16 14:18	11/02/16 19:39	1
Butyl benzyl phthalate	ND	H	9.5	0.66	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Chloroaniline	ND	H	9.5	3.2	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Chloro-3-methylphenol	ND	H	9.5	3.6	ug/L		10/28/16 14:18	11/02/16 19:39	1
2-Chloronaphthalene	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 19:39	1
2-Chlorophenol	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Chlorophenyl phenyl ether	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:39	1
Dibenz[a,h]acridine	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 19:39	1
Dibenzofuran	ND	H	9.5	0.50	ug/L		10/28/16 14:18	11/02/16 19:39	1
3,3'-Dichlorobenzidine	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4-Dichlorophenol	ND	H	9.5	2.9	ug/L		10/28/16 14:18	11/02/16 19:39	1
Diethyl phthalate	ND	H	9.5	0.67	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4-Dimethylphenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:39	1
Dimethyl phthalate	ND	H	9.5	0.57	ug/L		10/28/16 14:18	11/02/16 19:39	1
Di-n-butyl phthalate	ND	H	9.5	2.6	ug/L		10/28/16 14:18	11/02/16 19:39	1
4,6-Dinitro-ortho-cresol	ND	H	9.5	1.9	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4-Dinitrophenol	ND	H	29	3.2	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,6-Dinitrotoluene	ND	H	9.5	1.8	ug/L		10/28/16 14:18	11/02/16 19:39	1
Di-n-octyl phthalate	0.47	J H	9.5	0.42	ug/L		10/28/16 14:18	11/02/16 19:39	1
1,4-Dioxane	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:39	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:39	1

Client Sample ID: P74-ROX-101416
Date Collected: 10/14/16 14:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	9.5	0.24	ug/L		10/28/16 14:18	11/02/16 19:39	1
Hexachlorocyclopentadiene	ND	H	19	2.5	ug/L		10/28/16 14:18	11/02/16 19:39	1
Hexachloroethane	ND	H	9.5	4.0	ug/L		10/28/16 14:18	11/02/16 19:39	1
Indene	ND	H	9.5	0.95	ug/L		10/28/16 14:18	11/02/16 19:39	1
Isophorone	ND	H	9.5	0.54	ug/L		10/28/16 14:18	11/02/16 19:39	1
2-Methylphenol	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 19:39	1
3 & 4 Methylphenol	ND	H	19	0.99	ug/L		10/28/16 14:18	11/02/16 19:39	1
2-Nitroaniline	ND	H	9.5	2.1	ug/L		10/28/16 14:18	11/02/16 19:39	1
3-Nitroaniline	ND	H	9.5	1.7	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Nitroaniline	ND	H	9.5	2.4	ug/L		10/28/16 14:18	11/02/16 19:39	1
Nitrobenzene	ND	H	9.5	0.52	ug/L		10/28/16 14:18	11/02/16 19:39	1
2-Nitrophenol	ND	H	9.5	0.62	ug/L		10/28/16 14:18	11/02/16 19:39	1
4-Nitrophenol	ND	H	9.5	2.0	ug/L		10/28/16 14:18	11/02/16 19:39	1
N-Nitrosodimethylamine	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:39	1
N-Nitrosodi-n-propylamine	ND	H	9.5	3.1	ug/L		10/28/16 14:18	11/02/16 19:39	1
N-Nitrosodiphenylamine	ND	H	9.5	0.45	ug/L		10/28/16 14:18	11/02/16 19:39	1
Pentachlorophenol	ND	H	19	1.7	ug/L		10/28/16 14:18	11/02/16 19:39	1
Phenol	ND	H	9.5	2.5	ug/L		10/28/16 14:18	11/02/16 19:39	1
Pyridine	ND	H	9.5	3.0	ug/L		10/28/16 14:18	11/02/16 19:39	1
Quinoline	ND	H	9.5	5.7	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4,5-Trichlorophenol	ND	H	9.5	3.5	ug/L		10/28/16 14:18	11/02/16 19:39	1
2,4,6-Trichlorophenol	ND	H	9.5	3.3	ug/L		10/28/16 14:18	11/02/16 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 120*	*10/28/16 14:18*	*11/02/16 19:39*	*1*
2-Fluorophenol	*55*		*10 - 120*	*10/28/16 14:18*	*11/02/16 19:39*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/28/16 14:18*	*11/02/16 19:39*	*1*
Phenol-d5	*63*		*10 - 120*	*10/28/16 14:18*	*11/02/16 19:39*	*1*
Terphenyl-d14	*61*		*53 - 125*	*10/28/16 14:18*	*11/02/16 19:39*	*1*
2,4,6-Tribromophenol	*95*		*15 - 135*	*10/28/16 14:18*	*11/02/16 19:39*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/20/16 10:29	10/21/16 15:13	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/20/16 10:29	10/21/16 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*132*		*51 - 149*	*10/20/16 10:29*	*10/21/16 15:13*	*1*

Client Sample ID: TB-ROX-101416-8260
Date Collected: 10/14/16 00:00
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 21:06	1
Acrolein	ND		20	10	ug/L			10/25/16 21:06	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 21:06	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 21:06	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 21:06	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 21:06	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 21:06	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 21:06	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 21:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 21:06	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 21:06	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 21:06	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 21:06	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 21:06	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:06	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 21:06	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 21:06	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 21:06	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 21:06	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 21:06	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 21:06	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 21:06	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 21:06	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 21:06	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 21:06	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 21:06	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 21:06	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 21:06	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 21:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 21:06	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 21:06	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 21:06	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 21:06	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 21:06	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101416-8260
Date Collected: 10/14/16 00:00
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 21:06	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 21:06	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 21:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 21:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 21:06	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 21:06	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 21:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 21:06	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:06	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 21:06	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 21:06	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 21:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 21:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 21:06	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 21:06	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 21:06	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*10/25/16 21:06*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 21:06*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/25/16 21:06*	*1*

Client Sample ID: TB-ROX-101416-8011
Date Collected: 10/14/16 00:00
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-6
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 15:43	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*139*		*51 - 149*	*10/20/16 10:29*	*10/21/16 15:43*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128764-1	MW14-ROX-101416-EB	90	105	105
400-128764-2	MW14-ROX-101416	95	104	107
400-128764-2 MS	MW14-ROX-101416-MS	90	105	103
400-128764-2 MSD	MW14-ROX-101416-MSD	88	106	103
400-128764-3	P66-ROX-101416	91	101	102
400-128764-4	P74-ROX-101416	89	107	109
400-128764-5	TB-ROX-101416-8260	88	105	106
LCS 400-328230/1002	Lab Control Sample	92	108	103
MB 400-328230/18	Method Blank	90	105	108

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128764-1	MW14-ROX-101416-EB	78	33	77	48	88	58
400-128764-1 - RERA	MW14-ROX-101416-EB	77	63	81	73	99	101
400-128764-2	MW14-ROX-101416	78	25	77	46	70	47
400-128764-2 - RERA	MW14-ROX-101416	78	54	71	59	77	106
400-128764-2 MS	MW14-ROX-101416-MS	83	51	84	67	73	79
400-128764-2 MS - RERA	MW14-ROX-101416-MS	81	68	74	76	88	124
400-128764-2 MSD	MW14-ROX-101416-MSD	59	34	54	39	67	66
400-128764-2 MSD - RERA	MW14-ROX-101416-MSD	85	71	74	82	97	125
400-128764-3	P66-ROX-101416	77	24	69	0.08 X	37 X *	70
400-128764-3 - RERA	P66-ROX-101416	76	59	75	74	70	131
400-128764-4	P74-ROX-101416	78	15	78	45	68	75
400-128764-4 - RERA	P74-ROX-101416	73	55	74	63	61	95
LCS 400-327727/2-A	Lab Control Sample	54	29	51	48	61	51
LCS 400-327727/4-A	Lab Control Sample	83	48	72	61	104	34
LCS 400-328762/2-A	Lab Control Sample	80	51	72	71	92	111
LCS 400-328762/4-A	Lab Control Sample	82	57	80	77	88	65
LCSD 400-327727/3-A	Lab Control Sample Dup	101	54	90	89	123	111
LCSD 400-327727/5-A	Lab Control Sample Dup	88	70	92	82	96	70
LCSD 400-328762/3-A	Lab Control Sample Dup	79	66	71	77	91	112
LCSD 400-328762/5-A	Lab Control Sample Dup	87	68	90	87	91	73
MB 400-327727/1-A	Method Blank	79	54	72	69	83	38
MB 400-328762/1-A	Method Blank	80	65	82	78	91	95

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128764-1	MW14-ROX-101416-EB	110	87	85
400-128764-2	MW14-ROX-101416	83	87	83
400-128764-2 MS	MW14-ROX-101416-MS	83	99	87
400-128764-2 MSD	MW14-ROX-101416-MSD	71	70	58
400-128764-3	P66-ROX-101416	35	85	81
400-128764-4	P74-ROX-101416	76	90	80
LCS 400-327727/2-A	Lab Control Sample	68	55	52
LCSD 400-327727/3-A	Lab Control Sample Dup	134	108	89
MB 400-327727/1-A	Method Blank	96	86	79

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-128764-1	MW14-ROX-101416-EB	131
400-128764-2	MW14-ROX-101416	141
400-128764-2 MS	MW14-ROX-101416-MS	120
400-128764-2 MSD	MW14-ROX-101416-MSD	117
400-128764-3	P66-ROX-101416	144
400-128764-4	P74-ROX-101416	132
400-128764-6	TB-ROX-101416-8011	139
LCS 400-327995/2-A	Lab Control Sample	118
LCSD 400-327995/3-A	Lab Control Sample Dup	128
MB 400-327548/1-A	Method Blank	177 X
MB 400-327995/1-A	Method Blank	141

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: MW14-ROX-101416-EB

Lab Sample ID: 400-128764-1

Date Collected: 10/14/16 09:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 22:38	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 20:09	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 17:37	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328097	10/24/16 19:43	S1S	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 12:14	KH1	TAL PEN

Client Sample ID: MW14-ROX-101416

Lab Sample ID: 400-128764-2

Date Collected: 10/14/16 10:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 19:34	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 18:38	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 18:10	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328097	10/24/16 18:34	S1S	TAL PEN
Total/NA	Prep	8011			34.9 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 13:14	KH1	TAL PEN

Client Sample ID: P66-ROX-101416

Lab Sample ID: 400-128764-3

Date Collected: 10/14/16 12:05
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 23:01	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 19:09	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 19:51	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328121	10/25/16 20:21	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328097	10/24/16 18:57	S1S	TAL PEN
Total/NA	Prep	8011			34.4 mL	35 mL	327995	10/24/16 14:46	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 03:06	KH1	TAL PEN

Client Sample ID: P74-ROX-101416

Lab Sample ID: 400-128764-4

Date Collected: 10/14/16 14:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 23:24	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 19:39	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 20:25	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328097	10/24/16 19:20	S1S	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 15:13	KH1	TAL PEN

Client Sample ID: TB-ROX-101416-8260

Lab Sample ID: 400-128764-5

Date Collected: 10/14/16 00:00
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 21:06	S1S	TAL PEN

Client Sample ID: TB-ROX-101416-8011

Lab Sample ID: 400-128764-6

Date Collected: 10/14/16 00:00
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 15:43	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327548/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:19	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327727/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 14:15	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328097	10/24/16 16:39	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327995/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 19:41	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328230/18

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 18:35	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328762/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329333	11/02/16 15:08	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327548/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 03:48	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327727/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 14:49	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328268	10/25/16 17:00	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327727/4-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 15:56	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327995/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:10	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328230/1002

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 17:38	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328762/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329333	11/02/16 16:38	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328762/4-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329333	11/02/16 15:38	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327727/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 15:23	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328268	10/25/16 17:25	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327727/5-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327727/5-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1			327977	10/24/16 16:30	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-327995/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:40	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-328762/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329333	11/02/16 17:08	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-328762/5-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329333	11/02/16 16:08	MAM	TAL PEN

Client Sample ID: MW14-ROX-101416-MS

Lab Sample ID: 400-128764-2 MS

Date Collected: 10/14/16 10:40
Matrix: Water
Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 19:57	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 17:38	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 18:44	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328097	10/24/16 17:48	S1S	TAL PEN
Total/NA	Prep	8011			34.1 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 13:44	KH1	TAL PEN

Client Sample ID: MW14-ROX-101416-MSD
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13

Lab Sample ID: 400-128764-2 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 20:20	S1S	TAL PEN
Total/NA	Prep	3520C	RERA		1050 mL	1 mL	328762	10/28/16 14:18	KLR	TAL PEN
Total/NA	Analysis	8270D	RERA	1			329333	11/02/16 18:08	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D		1			327977	10/24/16 19:18	MAM	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	327727	10/21/16 11:03	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328097	10/24/16 18:11	S1S	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	327548	10/20/16 10:29	KH1	TAL PEN
Total/NA	Analysis	8011		1			327718	10/21/16 14:13	KH1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	8260B	
400-128764-2	MW14-ROX-101416	Total/NA	Water	8260B	
400-128764-3	P66-ROX-101416	Total/NA	Water	8260B	
400-128764-4	P74-ROX-101416	Total/NA	Water	8260B	
400-128764-5	TB-ROX-101416-8260	Total/NA	Water	8260B	
MB 400-328230/18	Method Blank	Total/NA	Water	8260B	
LCS 400-328230/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	8260B	
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 327727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	3520C	
400-128764-2	MW14-ROX-101416	Total/NA	Water	3520C	
400-128764-3	P66-ROX-101416	Total/NA	Water	3520C	
400-128764-4	P74-ROX-101416	Total/NA	Water	3520C	
MB 400-327727/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-327727/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-327727/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-327727/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-327727/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	3520C	
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	3520C	

Analysis Batch: 327977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	8270D	327727
400-128764-2	MW14-ROX-101416	Total/NA	Water	8270D	327727
400-128764-3	P66-ROX-101416	Total/NA	Water	8270D	327727
400-128764-4	P74-ROX-101416	Total/NA	Water	8270D	327727
MB 400-327727/1-A	Method Blank	Total/NA	Water	8270D	327727
LCS 400-327727/2-A	Lab Control Sample	Total/NA	Water	8270D	327727
LCS 400-327727/4-A	Lab Control Sample	Total/NA	Water	8270D	327727
LCSD 400-327727/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	327727
LCSD 400-327727/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	327727
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	8270D	327727
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	8270D	327727

Analysis Batch: 328097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	8270D LL	327727
400-128764-2	MW14-ROX-101416	Total/NA	Water	8270D LL	327727
400-128764-3	P66-ROX-101416	Total/NA	Water	8270D LL	327727
400-128764-4	P74-ROX-101416	Total/NA	Water	8270D LL	327727
MB 400-327727/1-A	Method Blank	Total/NA	Water	8270D LL	327727
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	8270D LL	327727
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	8270D LL	327727

GC/MS Semi VOA (Continued)

Analysis Batch: 328121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-3	P66-ROX-101416	Total/NA	Water	8270D	327727

Analysis Batch: 328268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-327727/2-A	Lab Control Sample	Total/NA	Water	8270D LL	327727
LCSD 400-327727/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	327727

Prep Batch: 328762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1 - RERA	MW14-ROX-101416-EB	Total/NA	Water	3520C	
400-128764-2 - RERA	MW14-ROX-101416	Total/NA	Water	3520C	
400-128764-3 - RERA	P66-ROX-101416	Total/NA	Water	3520C	
400-128764-4 - RERA	P74-ROX-101416	Total/NA	Water	3520C	
MB 400-328762/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328762/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-328762/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328762/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-328762/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	
400-128764-2 MS - RERA	MW14-ROX-101416-MS	Total/NA	Water	3520C	
400-128764-2 MSD - RERA	MW14-ROX-101416-MSD	Total/NA	Water	3520C	

Analysis Batch: 329333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1 - RERA	MW14-ROX-101416-EB	Total/NA	Water	8270D	328762
400-128764-2 - RERA	MW14-ROX-101416	Total/NA	Water	8270D	328762
400-128764-3 - RERA	P66-ROX-101416	Total/NA	Water	8270D	328762
400-128764-4 - RERA	P74-ROX-101416	Total/NA	Water	8270D	328762
MB 400-328762/1-A	Method Blank	Total/NA	Water	8270D	328762
LCS 400-328762/2-A	Lab Control Sample	Total/NA	Water	8270D	328762
LCS 400-328762/4-A	Lab Control Sample	Total/NA	Water	8270D	328762
LCSD 400-328762/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328762
LCSD 400-328762/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	328762
400-128764-2 MS - RERA	MW14-ROX-101416-MS	Total/NA	Water	8270D	328762
400-128764-2 MSD - RERA	MW14-ROX-101416-MSD	Total/NA	Water	8270D	328762

GC Semi VOA

Prep Batch: 327548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	8011	
400-128764-2	MW14-ROX-101416	Total/NA	Water	8011	
400-128764-4	P74-ROX-101416	Total/NA	Water	8011	
400-128764-6	TB-ROX-101416-8011	Total/NA	Water	8011	
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	8011	
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	8011	

GC Semi VOA (Continued)

Analysis Batch: 327718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-1	MW14-ROX-101416-EB	Total/NA	Water	8011	327548
400-128764-2	MW14-ROX-101416	Total/NA	Water	8011	327548
400-128764-4	P74-ROX-101416	Total/NA	Water	8011	327548
400-128764-6	TB-ROX-101416-8011	Total/NA	Water	8011	327548
MB 400-327548/1-A	Method Blank	Total/NA	Water	8011	327548
LCS 400-327548/2-A	Lab Control Sample	Total/NA	Water	8011	327548
400-128764-2 MS	MW14-ROX-101416-MS	Total/NA	Water	8011	327548
400-128764-2 MSD	MW14-ROX-101416-MSD	Total/NA	Water	8011	327548

Prep Batch: 327995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-3	P66-ROX-101416	Total/NA	Water	8011	
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 328117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128764-3	P66-ROX-101416	Total/NA	Water	8011	327995
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	327995
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	327995
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327995

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 18:35	1
Acrolein	ND		20	10	ug/L			10/25/16 18:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 18:35	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 18:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 18:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 18:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 18:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 18:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 18:35	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 18:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 18:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 18:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 18:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 18:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 18:35	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 18:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 18:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 18:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 18:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 18:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 18:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 18:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 18:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 18:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 18:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 18:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 18:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 18:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 18:35	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 18:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 18:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 18:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 18:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/25/16 18:35*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 18:35*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/25/16 18:35*	*1*

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	234		ug/L		117	43 - 160
Acrolein	500	467		ug/L		93	38 - 160
Acrylonitrile	500	462		ug/L		92	64 - 142
Benzene	50.0	48.7		ug/L		97	70 - 130
Bromobenzene	50.0	51.3		ug/L		103	70 - 132
Bromochloromethane	50.0	49.1		ug/L		98	70 - 130
Bromodichloromethane	50.0	45.7		ug/L		91	67 - 133
Bromoform	50.0	40.2		ug/L		80	57 - 140
Bromomethane	50.0	54.3		ug/L		109	10 - 160
2-Butanone (MEK)	200	208		ug/L		104	61 - 145
Carbon disulfide	50.0	39.8		ug/L		80	61 - 137
Carbon tetrachloride	50.0	49.0		ug/L		98	61 - 137
Chlorobenzene	50.0	52.1		ug/L		104	70 - 130
Dibromochloromethane	50.0	45.2		ug/L		90	67 - 135
Chloroethane	50.0	51.6		ug/L		103	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	35.3		ug/L		71	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	50.0		ug/L		100	69 - 130
Chloromethane	50.0	39.7		ug/L		79	58 - 137
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	69 - 132
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	31.5		ug/L		63	41 - 146
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	46.7		ug/L		93	63 - 134
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	45.4		ug/L		91	52 - 135
1,1-Dichloropropene	50.0	50.9		ug/L		102	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Ethyl methacrylate	50.0	43.2		ug/L		86	68 - 130
Hexachlorobutadiene	50.0	53.4		ug/L		107	53 - 140
2-Hexanone	200	196		ug/L		98	65 - 137
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 130
Methylene bromide	50.0	49.7		ug/L		99	70 - 130
Methylene Chloride	50.0	45.3		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	189		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	44.2		ug/L		88	66 - 130
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
Naphthalene	50.0	47.0		ug/L		94	47 - 149
n-Butylbenzene	50.0	58.0		ug/L		116	67 - 130
N-Propylbenzene	50.0	52.9		ug/L		106	70 - 130
o-Chlorotoluene	50.0	51.5		ug/L		103	70 - 130
o-Xylene	50.0	49.3		ug/L		99	70 - 130
p-Chlorotoluene	50.0	50.1		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	55.1		ug/L		110	65 - 130
sec-Butylbenzene	50.0	55.2		ug/L		110	66 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
tert-Butylbenzene	50.0	53.5		ug/L		107	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 131
Tetrachloroethene	50.0	47.2		ug/L		94	65 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	42.6		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	60 - 138
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	68 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 130
Trichloroethene	50.0	51.3		ug/L		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	50.2		ug/L		100	65 - 138
1,2,3-Trichloropropane	50.0	46.3		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	52.5		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/L		105	69 - 130
Vinyl acetate	100	99.3		ug/L		99	26 - 160
Vinyl chloride	50.0	43.0		ug/L		86	59 - 136
Xylenes, Total	100	99.8		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	149		ug/L		74	43 - 160
Acrolein	ND		500	444		ug/L		89	38 - 160
Acrylonitrile	ND		500	463		ug/L		93	62 - 149
Benzene	ND		50.0	49.1		ug/L		98	56 - 142
Bromobenzene	ND		50.0	49.8		ug/L		100	59 - 136
Bromochloromethane	ND		50.0	47.8		ug/L		96	64 - 140
Bromodichloromethane	ND		50.0	45.2		ug/L		90	59 - 143
Bromoform	ND		50.0	37.9		ug/L		76	50 - 140
Bromomethane	ND		50.0	46.8		ug/L		94	10 - 160
2-Butanone (MEK)	ND		200	164		ug/L		82	55 - 150
Carbon disulfide	ND		50.0	41.2		ug/L		82	48 - 152
Carbon tetrachloride	ND		50.0	47.3		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	43.9		ug/L		88	56 - 143
Chloroethane	ND		50.0	45.7		ug/L		91	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	3.41	J F1	ug/L		7	10 - 160
Chloroform	ND		50.0	50.1		ug/L		100	60 - 141
1-Chlorohexane	ND		50.0	47.1		ug/L		94	56 - 136
Chloromethane	ND		50.0	36.5		ug/L		73	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.7		ug/L		101	52 - 137
1,3-Dichlorobenzene	ND		50.0	50.1		ug/L		100	54 - 135
1,4-Dichlorobenzene	ND		50.0	51.3		ug/L		103	53 - 135
Dichlorodifluoromethane	ND		50.0	28.7		ug/L		57	16 - 160
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144
1,2-Dichloroethane	ND		50.0	50.7		ug/L		101	60 - 141
1,1-Dichloroethene	ND		50.0	46.8		ug/L		94	54 - 147
1,2-Dichloropropane	ND		50.0	50.1		ug/L		100	66 - 137
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.9		ug/L		88	42 - 144
1,1-Dichloropropene	ND		50.0	50.5		ug/L		101	65 - 136
Ethylbenzene	ND		50.0	49.9		ug/L		100	58 - 131
Ethyl methacrylate	ND		50.0	43.9		ug/L		88	64 - 130
Hexachlorobutadiene	ND		50.0	47.7		ug/L		95	31 - 149
2-Hexanone	ND		200	166		ug/L		83	65 - 140
Isopropylbenzene	ND		50.0	51.6		ug/L		103	56 - 133
Methylene bromide	ND		50.0	50.3		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	45.9		ug/L		92	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	187		ug/L		93	63 - 146
Methyl tert-butyl ether	ND		50.0	43.6		ug/L		87	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.9		ug/L		98	57 - 130
Naphthalene	ND		50.0	46.1		ug/L		92	25 - 160
n-Butylbenzene	ND		50.0	54.2		ug/L		108	41 - 142
N-Propylbenzene	ND		50.0	51.9		ug/L		104	51 - 138
o-Chlorotoluene	ND		50.0	49.6		ug/L		99	53 - 134
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130
p-Chlorotoluene	ND		50.0	49.7		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	52.8		ug/L		106	48 - 139
sec-Butylbenzene	ND		50.0	53.2		ug/L		106	50 - 138
Styrene	ND		50.0	48.9		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	51.8		ug/L		104	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.9		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	43.0		ug/L		86	52 - 133
Toluene	ND		50.0	49.8		ug/L		100	65 - 130
trans-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	61 - 143
trans-1,3-Dichloropropene	ND		50.0	42.2		ug/L		84	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.6		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	48.0		ug/L		96	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	57 - 142
1,1,2-Trichloroethane	ND		50.0	49.5		ug/L		99	66 - 131
Trichloroethene	ND		50.0	49.1		ug/L		98	64 - 136
Trichlorofluoromethane	ND		50.0	47.3		ug/L		95	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.4		ug/L		95	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	50.2		ug/L		100	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.2		ug/L		102	52 - 135
Vinyl acetate	ND		100	92.6		ug/L		93	26 - 160
Vinyl chloride	ND		50.0	39.3		ug/L		79	46 - 152
Xylenes, Total	ND		100	98.2		ug/L		98	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	154		ug/L		77	43 - 160	3	30
Acrolein	ND		500	466		ug/L		93	38 - 160	5	31
Acrylonitrile	ND		500	466		ug/L		93	62 - 149	1	30
Benzene	ND		50.0	47.6		ug/L		95	56 - 142	3	30
Bromobenzene	ND		50.0	48.0		ug/L		96	59 - 136	4	30
Bromochloromethane	ND		50.0	46.1		ug/L		92	64 - 140	4	30
Bromodichloromethane	ND		50.0	43.1		ug/L		86	59 - 143	5	30
Bromoform	ND		50.0	37.7		ug/L		75	50 - 140	1	30
Bromomethane	ND		50.0	48.9		ug/L		98	10 - 160	4	50
2-Butanone (MEK)	ND		200	176		ug/L		88	55 - 150	8	30
Carbon disulfide	ND		50.0	39.6		ug/L		79	48 - 152	4	30
Carbon tetrachloride	ND		50.0	46.1		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	49.1		ug/L		98	64 - 130	7	30
Dibromochloromethane	ND		50.0	42.4		ug/L		85	56 - 143	4	30
Chloroethane	ND		50.0	50.6		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141	4	30
1-Chlorohexane	ND		50.0	46.1		ug/L		92	56 - 136	2	30
Chloromethane	ND		50.0	40.4		ug/L		81	49 - 148	10	31
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	45.2		ug/L		90	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	49.1		ug/L		98	52 - 137	3	30
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	48.0		ug/L		96	53 - 135	7	30
Dichlorodifluoromethane	ND		50.0	31.2		ug/L		62	16 - 160	8	31
1,1-Dichloroethane	ND		50.0	49.4		ug/L		99	61 - 144	0	30
1,2-Dichloroethane	ND		50.0	48.6		ug/L		97	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	44.7		ug/L		89	54 - 147	5	30
1,2-Dichloropropane	ND		50.0	49.8		ug/L		100	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	47.9		ug/L		96	66 - 133	5	30
2,2-Dichloropropane	ND		50.0	42.7		ug/L		85	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	49.7		ug/L		99	65 - 136	2	30
Ethylbenzene	ND		50.0	46.9		ug/L		94	58 - 131	6	30
Ethyl methacrylate	ND		50.0	43.1		ug/L		86	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	47.4		ug/L		95	31 - 149	1	36
2-Hexanone	ND		200	164		ug/L		82	65 - 140	1	30
Isopropylbenzene	ND		50.0	48.5		ug/L		97	56 - 133	6	30
Methylene bromide	ND		50.0	48.7		ug/L		97	63 - 138	3	30
Methylene Chloride	ND		50.0	46.8		ug/L		94	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	185		ug/L		92	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	43.2		ug/L		86	59 - 137	1	30
m-Xylene & p-Xylene	ND		50.0	46.5		ug/L		93	57 - 130	5	30
Naphthalene	ND		50.0	46.4		ug/L		93	25 - 160	1	30
n-Butylbenzene	ND		50.0	52.8		ug/L		106	41 - 142	3	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	6	30
o-Chlorotoluene	ND		50.0	48.2		ug/L		96	53 - 134	3	30
o-Xylene	ND		50.0	46.3		ug/L		93	61 - 130	6	30
p-Chlorotoluene	ND		50.0	47.4		ug/L		95	54 - 133	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	50.1		ug/L		100	48 - 139	5	30
sec-Butylbenzene	ND		50.0	50.8		ug/L		102	50 - 138	5	30
Styrene	ND		50.0	47.2		ug/L		94	58 - 131	3	30
tert-Butylbenzene	ND		50.0	49.5		ug/L		99	54 - 146	5	30
1,1,1,2-Tetrachloroethane	ND		50.0	44.6		ug/L		89	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	66 - 135	3	30
Tetrachloroethene	ND		50.0	41.7		ug/L		83	52 - 133	3	30
Toluene	ND		50.0	47.0		ug/L		94	65 - 130	6	30
trans-1,2-Dichloroethene	ND		50.0	48.3		ug/L		97	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	41.7		ug/L		83	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	48.8		ug/L		98	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	47.4		ug/L		95	39 - 148	1	30
1,1,1-Trichloroethane	ND		50.0	46.2		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	46.8		ug/L		94	66 - 131	6	30
Trichloroethene	ND		50.0	49.6		ug/L		99	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	50.1		ug/L		100	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	48.2		ug/L		96	50 - 139	4	30
1,3,5-Trimethylbenzene	ND		50.0	48.3		ug/L		97	52 - 135	6	30
Vinyl acetate	ND		100	99.7		ug/L		100	26 - 160	7	33
Vinyl chloride	ND		50.0	44.4		ug/L		89	46 - 152	12	30
Xylenes, Total	ND		100	92.8		ug/L		93	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-327727/1-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/21/16 11:03	10/24/16 14:15	1
Benzenethiol	ND		10	1.7	ug/L		10/21/16 11:03	10/24/16 14:15	1
Benzoic acid	ND		30	7.3	ug/L		10/21/16 11:03	10/24/16 14:15	1
Benzyl alcohol	ND		10	2.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Bis(2-chloroethoxy)methane	22.1		10	0.69	ug/L		10/21/16 11:03	10/24/16 14:15	1
Bis(2-chloroethyl)ether	1.99	J	10	0.74	ug/L		10/21/16 11:03	10/24/16 14:15	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/21/16 11:03	10/24/16 14:15	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/21/16 11:03	10/24/16 14:15	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Chloroaniline	ND		10	3.4	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/21/16 11:03	10/24/16 14:15	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/21/16 11:03	10/24/16 14:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-327727/1-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Dibenzofuran	ND		10	0.52	ug/L		10/21/16 11:03	10/24/16 14:15	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Diethyl phthalate	ND		10	0.70	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/21/16 11:03	10/24/16 14:15	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/21/16 11:03	10/24/16 14:15	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/21/16 11:03	10/24/16 14:15	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/21/16 11:03	10/24/16 14:15	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/21/16 11:03	10/24/16 14:15	1
1,4-Dioxane	1.56	J	10	1.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/21/16 11:03	10/24/16 14:15	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/21/16 11:03	10/24/16 14:15	1
Hexachloroethane	ND		10	4.2	ug/L		10/21/16 11:03	10/24/16 14:15	1
Indene	ND		10	1.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
Isophorone	ND		10	0.57	ug/L		10/21/16 11:03	10/24/16 14:15	1
2-Methylphenol	ND		10	1.8	ug/L		10/21/16 11:03	10/24/16 14:15	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
2-Nitroaniline	ND		10	2.2	ug/L		10/21/16 11:03	10/24/16 14:15	1
3-Nitroaniline	ND		10	1.8	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Nitroaniline	ND		10	2.5	ug/L		10/21/16 11:03	10/24/16 14:15	1
Nitrobenzene	ND		10	0.55	ug/L		10/21/16 11:03	10/24/16 14:15	1
2-Nitrophenol	ND		10	0.65	ug/L		10/21/16 11:03	10/24/16 14:15	1
4-Nitrophenol	ND		10	2.1	ug/L		10/21/16 11:03	10/24/16 14:15	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/21/16 11:03	10/24/16 14:15	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/21/16 11:03	10/24/16 14:15	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/21/16 11:03	10/24/16 14:15	1
Pentachlorophenol	ND		20	1.8	ug/L		10/21/16 11:03	10/24/16 14:15	1
Phenol	ND		10	2.6	ug/L		10/21/16 11:03	10/24/16 14:15	1
Pyridine	ND		10	3.2	ug/L		10/21/16 11:03	10/24/16 14:15	1
Quinoline	ND		10	6.0	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/21/16 11:03	10/24/16 14:15	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/21/16 11:03	10/24/16 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/21/16 11:03*	*10/24/16 14:15*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/21/16 11:03*	*10/24/16 14:15*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*10/21/16 11:03*	*10/24/16 14:15*	*1*
Phenol-d5	*69*		*10 - 120*	*10/21/16 11:03*	*10/24/16 14:15*	*1*
Terphenyl-d14	*83*		*53 - 125*	*10/21/16 11:03*	*10/24/16 14:15*	*1*
2,4,6-Tribromophenol	*38*		*15 - 135*	*10/21/16 11:03*	*10/24/16 14:15*	*1*

Lab Sample ID: LCS 400-327727/2-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	14.1		ug/L		47	10 - 145
Benzoic acid	126	24.0	J	ug/L		19	10 - 120
Benzyl alcohol	30.0	13.5	*	ug/L		45	51 - 121
Bis(2-chloroethoxy)methane	30.0	21.4		ug/L		71	54 - 123
Bis(2-chloroethyl)ether	30.0	15.3		ug/L		51	47 - 120
bis (2-chloroisopropyl) ether	30.0	14.9		ug/L		50	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	20.3		ug/L		68	62 - 140
4-Bromophenyl phenyl ether	30.0	17.3	*	ug/L		58	62 - 132
Butyl benzyl phthalate	30.0	18.3		ug/L		61	51 - 150
4-Chloroaniline	30.0	13.9		ug/L		46	32 - 128
4-Chloro-3-methylphenol	30.0	16.0		ug/L		53	47 - 135
2-Chloronaphthalene	30.0	16.3		ug/L		54	24 - 150
2-Chlorophenol	30.0	12.9	*	ug/L		43	45 - 120
4-Chlorophenyl phenyl ether	30.0	16.4	*	ug/L		55	61 - 133
Dibenz[a,h]acridine	30.0	16.9	*	ug/L		56	60 - 131
Dibenzofuran	30.0	16.1	*	ug/L		54	62 - 124
3,3'-Dichlorobenzidine	40.0	22.2		ug/L		56	16 - 167
2,4-Dichlorophenol	30.0	15.2	*	ug/L		51	52 - 125
Diethyl phthalate	30.0	16.3	*	ug/L		54	55 - 140
2,4-Dimethylphenol	30.0	16.7		ug/L		56	52 - 121
Dimethyl phthalate	30.0	17.1		ug/L		57	50 - 133
Di-n-butyl phthalate	30.0	17.8		ug/L		59	59 - 144
4,6-Dinitro-ortho-cresol	60.0	29.7		ug/L		50	46 - 136
2,4-Dinitrophenol	101	34.6		ug/L		34	22 - 146
2,4-Dinitrotoluene	30.0	19.0		ug/L		63	54 - 141
2,6-Dinitrotoluene	30.0	17.8	*	ug/L		59	61 - 130
Di-n-octyl phthalate	30.0	19.0		ug/L		63	55 - 140
1,4-Dioxane	30.0	7.85	J	ug/L		26	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	16.7		ug/L		56	55 - 139
Hexachlorobenzene	30.0	17.2	*	ug/L		57	60 - 138
Hexachlorocyclopentadiene	30.0	9.69	J	ug/L		32	1 - 139
Hexachloroethane	30.0	12.0	*	ug/L		40	46 - 121
Indene	30.0	12.9		ug/L		43	17 - 141
Isophorone	30.0	16.1	*	ug/L		54	57 - 122
2-Methylphenol	30.0	15.6		ug/L		52	38 - 121
3 & 4 Methylphenol	30.0	15.6	J	ug/L		52	43 - 126
2-Nitroaniline	30.0	22.9		ug/L		76	52 - 135
3-Nitroaniline	30.0	18.0		ug/L		60	51 - 128
4-Nitroaniline	30.0	18.9		ug/L		63	38 - 141
Nitrobenzene	30.0	15.5		ug/L		52	52 - 128
2-Nitrophenol	30.0	13.9	*	ug/L		46	47 - 129
4-Nitrophenol	60.0	29.0		ug/L		48	34 - 137
N-Nitrosodimethylamine	30.0	12.7		ug/L		42	21 - 134
N-Nitrosodi-n-propylamine	30.0	16.1		ug/L		54	41 - 143
N-Nitrosodiphenylamine	29.8	17.9		ug/L		60	10 - 185
Pentachlorophenol	60.0	22.9		ug/L		38	38 - 138
Phenol	30.0	13.6		ug/L		45	37 - 120
Pyridine	30.0	7.77	J	ug/L		26	10 - 127
Quinoline	30.0	15.5		ug/L		52	10 - 164

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-327727/2-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	15.9		ug/L		53	53 - 130
2,4,6-Trichlorophenol	30.0	14.7	*	ug/L		49	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*54*		*34 - 120*
2-Fluorophenol	*29*		*10 - 120*
Nitrobenzene-d5	*51*		*27 - 120*
Phenol-d5	*48*		*10 - 120*
Terphenyl-d14	*61*		*53 - 125*
2,4,6-Tribromophenol	*51*		*15 - 135*

Lab Sample ID: LCS 400-327727/4-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		3	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*34 - 120*
2-Fluorophenol	*48*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*61*		*10 - 120*
Terphenyl-d14	*104*		*53 - 125*
2,4,6-Tribromophenol	*34*		*15 - 135*

Lab Sample ID: LCSD 400-327727/3-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	23.9	*	ug/L		80	10 - 145	52	30
Benzoic acid	126	68.3	*	ug/L		54	10 - 120	96	30
Benzyl alcohol	30.0	24.0	*	ug/L		80	51 - 121	56	30
Bis(2-chloroethoxy)methane	30.0	33.5	*	ug/L		112	54 - 123	44	30
Bis(2-chloroethyl)ether	30.0	22.5	*	ug/L		75	47 - 120	38	30
bis (2-chloroisopropyl) ether	30.0	22.8	*	ug/L		76	20 - 142	42	30
Bis(2-ethylhexyl) phthalate	30.0	34.3	*	ug/L		114	62 - 140	52	30
4-Bromophenyl phenyl ether	30.0	31.4	*	ug/L		105	62 - 132	58	30
Butyl benzyl phthalate	30.0	33.1	*	ug/L		110	51 - 150	57	30
4-Chloroaniline	30.0	26.5	*	ug/L		88	32 - 128	62	30
4-Chloro-3-methylphenol	30.0	29.3	*	ug/L		98	47 - 135	59	30
2-Chloronaphthalene	30.0	29.2	*	ug/L		97	24 - 150	57	30
2-Chlorophenol	30.0	21.3	*	ug/L		71	45 - 120	50	30
4-Chlorophenyl phenyl ether	30.0	30.3	*	ug/L		101	61 - 133	60	30
Dibenz[a,h]acridine	30.0	31.7	*	ug/L		106	60 - 131	61	30
Dibenzofuran	30.0	29.8	*	ug/L		99	62 - 124	60	30
3,3'-Dichlorobenzidine	40.0	42.1	*	ug/L		105	16 - 167	62	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327727/3-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	30.0	28.4	*	ug/L		95	52 - 125	60	30
Diethyl phthalate	30.0	30.6	*	ug/L		102	55 - 140	61	30
2,4-Dimethylphenol	30.0	30.7	*	ug/L		102	52 - 121	59	30
Dimethyl phthalate	30.0	31.5	*	ug/L		105	50 - 133	59	30
Di-n-butyl phthalate	30.0	32.0	*	ug/L		107	59 - 144	57	30
4,6-Dinitro-ortho-cresol	60.0	56.2	*	ug/L		94	46 - 136	62	30
2,4-Dinitrophenol	101	73.3	*	ug/L		72	22 - 146	72	30
2,4-Dinitrotoluene	30.0	36.4	*	ug/L		121	54 - 141	63	30
2,6-Dinitrotoluene	30.0	32.1	*	ug/L		107	61 - 130	58	30
Di-n-octyl phthalate	30.0	35.3	*	ug/L		118	55 - 140	60	30
1,4-Dioxane	30.0	8.86	J	ug/L		30	10 - 130	12	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	30.3	*	ug/L		101	55 - 139	58	30
Hexachlorobenzene	30.0	31.1	*	ug/L		104	60 - 138	57	30
Hexachlorocyclopentadiene	30.0	16.8	J *	ug/L		56	1 - 139	54	30
Hexachloroethane	30.0	16.3		ug/L		54	46 - 121	30	30
Indene	30.0	19.0	*	ug/L		63	17 - 141	38	30
Isophorone	30.0	28.1	*	ug/L		94	57 - 122	54	30
2-Methylphenol	30.0	27.0	*	ug/L		90	38 - 121	53	30
3 & 4 Methylphenol	30.0	27.2	*	ug/L		91	43 - 126	54	30
2-Nitroaniline	30.0	35.8	*	ug/L		119	52 - 135	44	30
3-Nitroaniline	30.0	33.9	*	ug/L		113	51 - 128	61	30
4-Nitroaniline	30.0	33.0	*	ug/L		110	38 - 141	54	30
Nitrobenzene	30.0	26.1	*	ug/L		87	52 - 128	51	30
2-Nitrophenol	30.0	24.9	*	ug/L		83	47 - 129	57	30
4-Nitrophenol	60.0	58.5	*	ug/L		98	34 - 137	67	30
N-Nitrosodimethylamine	30.0	20.9	*	ug/L		70	21 - 134	49	30
N-Nitrosodi-n-propylamine	30.0	27.3	*	ug/L		91	41 - 143	52	30
N-Nitrosodiphenylamine	29.8	32.7	*	ug/L		110	10 - 185	59	30
Pentachlorophenol	60.0	52.2	*	ug/L		87	38 - 138	78	30
Phenol	30.0	23.2	*	ug/L		77	37 - 120	52	30
Pyridine	30.0	10.2		ug/L		34	10 - 127	27	30
Quinoline	30.0	30.0	*	ug/L		100	10 - 164	64	30
2,4,5-Trichlorophenol	30.0	30.0	*	ug/L		100	53 - 130	61	30
2,4,6-Trichlorophenol	30.0	28.1	*	ug/L		94	52 - 131	63	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*101*		*34 - 120*
2-Fluorophenol	*54*		*10 - 120*
Nitrobenzene-d5	*90*		*27 - 120*
Phenol-d5	*89*		*10 - 120*
Terphenyl-d14	*123*		*53 - 125*
2,4,6-Tribromophenol	*111*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-327727/5-A
Matrix: Water
Analysis Batch: 327977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	15.7	*	ug/L		52	20 - 150	176	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*34 - 120*
2-Fluorophenol	*70*		*10 - 120*
Nitrobenzene-d5	*92*		*27 - 120*
Phenol-d5	*82*		*10 - 120*
Terphenyl-d14	*96*		*53 - 125*
2,4,6-Tribromophenol	*70*		*15 - 135*

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 327977

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND	*	28.6	17.2		ug/L		60	10 - 143
Benzoic acid	ND	F2 *	120	76.2		ug/L		64	10 - 134
Benzyl alcohol	ND	F2 *	28.6	16.7		ug/L		58	10 - 154
Bis(2-chloroethoxy)methane	2.4	J B *	28.6	23.0		ug/L		72	14 - 147
Bis(2-chloroethyl)ether	ND	F2 *	28.6	21.5		ug/L		75	28 - 130
bis (2-chloroisopropyl) ether	ND	F2 *	28.6	21.6		ug/L		76	10 - 141
Bis(2-ethylhexyl) phthalate	ND	*	28.6	26.2		ug/L		92	43 - 160
4-Bromophenyl phenyl ether	ND	*	28.6	22.3		ug/L		78	26 - 159
Butyl benzyl phthalate	ND	*	28.6	22.8		ug/L		80	43 - 151
4-Chloroaniline	ND	*	28.6	13.3		ug/L		47	10 - 152
4-Chloro-3-methylphenol	ND	F2 *	28.6	23.9		ug/L		84	17 - 156
2-Chloronaphthalene	ND	F2 *	28.6	22.7		ug/L		79	10 - 155
2-Chlorophenol	ND	F2 *	28.6	17.2		ug/L		60	19 - 130
4-Chlorophenyl phenyl ether	ND	*	28.6	21.1		ug/L		74	25 - 161
Dibenz[a,h]acridine	ND	*	28.6	23.5		ug/L		82	42 - 147
Dibenzofuran	ND	*	28.6	21.2		ug/L		74	18 - 157
3,3'-Dichlorobenzidine	ND	*	38.1	4.45	J	ug/L		12	10 - 172
2,4-Dichlorophenol	ND	*	28.6	20.2		ug/L		71	16 - 147
Diethyl phthalate	ND	*	28.6	20.2		ug/L		71	23 - 160
2,4-Dimethylphenol	ND	*	28.6	21.6		ug/L		76	25 - 146
Dimethyl phthalate	ND	*	28.6	21.6		ug/L		76	11 - 158
Di-n-butyl phthalate	ND	*	28.6	21.8		ug/L		76	28 - 162
4,6-Dinitro-ortho-cresol	ND	*	57.1	37.4		ug/L		66	10 - 168
2,4-Dinitrophenol	ND	*	96.3	54.0		ug/L		56	10 - 166
2,4-Dinitrotoluene	ND	*	28.6	24.8		ug/L		87	26 - 158
2,6-Dinitrotoluene	ND	*	28.6	23.0		ug/L		80	19 - 157
Di-n-octyl phthalate	ND	*	28.6	24.9		ug/L		87	42 - 150
1,4-Dioxane	ND	F2	28.6	15.9		ug/L		56	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	28.6	21.9		ug/L		77	19 - 162
Hexachlorobenzene	ND	*	28.6	22.3		ug/L		78	45 - 145
Hexachlorocyclopentadiene	ND	*	28.6	12.7	J	ug/L		44	10 - 151
Hexachloroethane	ND	F2 *	28.6	19.7		ug/L		69	29 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 327977

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indene	ND	F2 *	28.6	23.0		ug/L		80	22 - 130
Isophorone	ND	F2 *	28.6	22.2		ug/L		78	24 - 144
2-Methylphenol	ND	*	28.6	22.0		ug/L		77	22 - 130
3 & 4 Methylphenol	ND	*	28.6	19.3		ug/L		68	31 - 130
2-Nitroaniline	ND	*	28.6	17.0		ug/L		59	10 - 162
3-Nitroaniline	ND	*	28.6	16.9		ug/L		59	10 - 163
4-Nitroaniline	ND	*	28.6	12.6		ug/L		44	10 - 162
Nitrobenzene	ND	F2 *	28.6	30.5		ug/L		107	34 - 135
2-Nitrophenol	ND	F2 *	28.6	19.9		ug/L		70	27 - 134
4-Nitrophenol	ND	*	57.1	39.9		ug/L		70	10 - 175
N-Nitrosodimethylamine	ND	*	28.6	22.2		ug/L		78	10 - 139
N-Nitrosodi-n-propylamine	ND	F2 *	28.6	22.7		ug/L		79	13 - 147
N-Nitrosodiphenylamine	ND	*	28.3	21.4		ug/L		76	31 - 150
Pentachlorophenol	ND	*	57.1	35.8		ug/L		63	10 - 180
Phenol	ND	*	28.6	16.4		ug/L		57	23 - 130
Pyridine	ND	F2	28.6	14.1		ug/L		49	10 - 130
Quinoline	ND	*	28.6	27.2		ug/L		95	10 - 180
2,4,5-Trichlorophenol	ND	*	28.6	21.5		ug/L		75	43 - 137
2,4,6-Trichlorophenol	ND	*	28.6	18.7		ug/L		65	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*34 - 120*
2-Fluorophenol	*51*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*
Phenol-d5	*67*		*10 - 120*
Terphenyl-d14	*73*		*53 - 125*
2,4,6-Tribromophenol	*79*		*15 - 135*

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 327977

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND	*	28.6	11.8		ug/L		41	10 - 143	38	63
Benzoic acid	ND	F2 *	120	45.9	F2	ug/L		38	10 - 134	50	49
Benzyl alcohol	ND	F2 *	28.6	10.7	F2	ug/L		38	10 - 154	43	37
Bis(2-chloroethoxy)methane	2.4	J B *	28.6	19.3		ug/L		59	14 - 147	17	70
Bis(2-chloroethyl)ether	ND	F2 *	28.6	13.9	F2	ug/L		49	28 - 130	43	42
bis (2-chloroisopropyl) ether	ND	F2 *	28.6	14.0	F2	ug/L		49	10 - 141	43	41
Bis(2-ethylhexyl) phthalate	ND	*	28.6	21.4		ug/L		75	43 - 160	20	35
4-Bromophenyl phenyl ether	ND	*	28.6	18.7		ug/L		65	26 - 159	18	30
Butyl benzyl phthalate	ND	*	28.6	21.0		ug/L		74	43 - 151	8	32
4-Chloroaniline	ND	*	28.6	12.1		ug/L		42	10 - 152	10	94
4-Chloro-3-methylphenol	ND	F2 *	28.6	15.8	F2	ug/L		55	17 - 156	41	40
2-Chloronaphthalene	ND	F2 *	28.6	16.7	F2	ug/L		58	10 - 155	30	29
2-Chlorophenol	ND	F2 *	28.6	10.7	F2	ug/L		38	19 - 130	46	42
4-Chlorophenyl phenyl ether	ND	*	28.6	18.7		ug/L		66	25 - 161	12	27
Dibenz[a,h]acridine	ND	*	28.6	23.6		ug/L		83	42 - 147	1	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 327977

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenzofuran	ND	*	28.6	17.7		ug/L		62	18 - 157	18	29
3,3'-Dichlorobenzidine	ND	*	38.1	5.45	J	ug/L		14	10 - 172	20	58
2,4-Dichlorophenol	ND	*	28.6	13.6		ug/L		48	16 - 147	39	43
Diethyl phthalate	ND	*	28.6	17.1		ug/L		60	23 - 160	17	40
2,4-Dimethylphenol	ND	*	28.6	14.6		ug/L		51	25 - 146	38	47
Dimethyl phthalate	ND	*	28.6	16.7		ug/L		58	11 - 158	26	36
Di-n-butyl phthalate	ND	*	28.6	19.4		ug/L		68	28 - 162	12	32
4,6-Dinitro-ortho-cresol	ND	*	57.1	30.0		ug/L		53	10 - 168	22	42
2,4-Dinitrophenol	ND	*	96.3	42.6		ug/L		44	10 - 166	24	36
2,4-Dinitrotoluene	ND	*	28.6	23.1		ug/L		81	26 - 158	7	28
2,6-Dinitrotoluene	ND	*	28.6	20.6		ug/L		72	19 - 157	11	28
Di-n-octyl phthalate	ND	*	28.6	23.1		ug/L		81	42 - 150	7	35
1,4-Dioxane	ND	F2	28.6	9.17	J F2	ug/L		32	10 - 130	54	40
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	28.6	19.3		ug/L		68	19 - 162	13	40
Hexachlorobenzene	ND	*	28.6	19.3		ug/L		67	45 - 145	15	33
Hexachlorocyclopentadiene	ND	*	28.6	7.60	J	ug/L		27	10 - 151	50	50
Hexachloroethane	ND	F2 *	28.6	12.0	F2	ug/L		42	29 - 130	48	41
Indene	ND	F2 *	28.6	14.2	F2	ug/L		50	22 - 130	47	40
Isophorone	ND	F2 *	28.6	15.6	F2	ug/L		55	24 - 144	35	33
2-Methylphenol	ND	*	28.6	14.6		ug/L		51	22 - 130	41	47
3 & 4 Methylphenol	ND	*	28.6	12.4	J	ug/L		43	31 - 130	44	47
2-Nitroaniline	ND	*	28.6	16.7		ug/L		58	10 - 162	2	33
3-Nitroaniline	ND	*	28.6	16.9		ug/L		59	10 - 163	0	39
4-Nitroaniline	ND	*	28.6	14.0		ug/L		49	10 - 162	10	50
Nitrobenzene	ND	F2 *	28.6	18.6	F2	ug/L		65	34 - 135	49	35
2-Nitrophenol	ND	F2 *	28.6	12.4	F2	ug/L		43	27 - 134	47	43
4-Nitrophenol	ND	*	57.1	31.4		ug/L		55	10 - 175	24	82
N-Nitrosodimethylamine	ND	*	28.6	12.4		ug/L		44	10 - 139	56	62
N-Nitrosodi-n-propylamine	ND	F2 *	28.6	15.0	F2	ug/L		53	13 - 147	41	36
N-Nitrosodiphenylamine	ND	*	28.3	17.6		ug/L		62	31 - 150	20	34
Pentachlorophenol	ND	*	57.1	30.7		ug/L		54	10 - 180	16	42
Phenol	ND	*	28.6	9.79		ug/L		34	23 - 130	50	52
Pyridine	ND	F2	28.6	7.27	J F2	ug/L		25	10 - 130	64	55
Quinoline	ND	*	28.6	19.0		ug/L		66	10 - 180	36	40
2,4,5-Trichlorophenol	ND	*	28.6	16.4		ug/L		57	43 - 137	27	42
2,4,6-Trichlorophenol	ND	*	28.6	14.6		ug/L		51	42 - 135	25	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*59*		*34 - 120*
2-Fluorophenol	*34*		*10 - 120*
Nitrobenzene-d5	*54*		*27 - 120*
Phenol-d5	*39*		*10 - 120*
Terphenyl-d14	*67*		*53 - 125*
2,4,6-Tribromophenol	*66*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328762/1-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/28/16 14:18	11/02/16 15:08	1
Benzenethiol	ND		10	1.7	ug/L		10/28/16 14:18	11/02/16 15:08	1
Benzoic acid	ND		30	7.3	ug/L		10/28/16 14:18	11/02/16 15:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/28/16 14:18	11/02/16 15:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/28/16 14:18	11/02/16 15:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/28/16 14:18	11/02/16 15:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/28/16 14:18	11/02/16 15:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/28/16 14:18	11/02/16 15:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/28/16 14:18	11/02/16 15:08	1
2-Chlorophenol	ND		10	2.2	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/28/16 14:18	11/02/16 15:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/28/16 14:18	11/02/16 15:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/28/16 14:18	11/02/16 15:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/28/16 14:18	11/02/16 15:08	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/28/16 14:18	11/02/16 15:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/28/16 14:18	11/02/16 15:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/28/16 14:18	11/02/16 15:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/28/16 14:18	11/02/16 15:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/28/16 14:18	11/02/16 15:08	1
Indene	ND		10	1.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
Isophorone	ND		10	0.57	ug/L		10/28/16 14:18	11/02/16 15:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/28/16 14:18	11/02/16 15:08	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
2-Nitroaniline	ND		10	2.2	ug/L		10/28/16 14:18	11/02/16 15:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/28/16 14:18	11/02/16 15:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/28/16 14:18	11/02/16 15:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/28/16 14:18	11/02/16 15:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/28/16 14:18	11/02/16 15:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/28/16 14:18	11/02/16 15:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/28/16 14:18	11/02/16 15:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/28/16 14:18	11/02/16 15:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/28/16 14:18	11/02/16 15:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328762/1-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	2.6	ug/L		10/28/16 14:18	11/02/16 15:08	1
Pyridine	ND		10	3.2	ug/L		10/28/16 14:18	11/02/16 15:08	1
Quinoline	ND		10	6.0	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/28/16 14:18	11/02/16 15:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/28/16 14:18	11/02/16 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*34 - 120*	*10/28/16 14:18*	*11/02/16 15:08*	*1*
2-Fluorophenol	*65*		*10 - 120*	*10/28/16 14:18*	*11/02/16 15:08*	*1*
Nitrobenzene-d5	*82*		*27 - 120*	*10/28/16 14:18*	*11/02/16 15:08*	*1*
Phenol-d5	*78*		*10 - 120*	*10/28/16 14:18*	*11/02/16 15:08*	*1*
Terphenyl-d14	*91*		*53 - 125*	*10/28/16 14:18*	*11/02/16 15:08*	*1*
2,4,6-Tribromophenol	*95*		*15 - 135*	*10/28/16 14:18*	*11/02/16 15:08*	*1*

Lab Sample ID: LCS 400-328762/2-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	18.9		ug/L		63	10 - 145
Benzoic acid	126	115		ug/L		91	10 - 120
Benzyl alcohol	30.0	24.5		ug/L		82	51 - 121
Bis(2-chloroethoxy)methane	30.0	23.6		ug/L		79	54 - 123
Bis(2-chloroethyl)ether	30.0	26.1		ug/L		87	47 - 120
bis (2-chloroisopropyl) ether	30.0	21.7		ug/L		72	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	28.6		ug/L		95	62 - 140
4-Bromophenyl phenyl ether	30.0	31.3		ug/L		104	62 - 132
Butyl benzyl phthalate	30.0	27.9		ug/L		93	51 - 150
4-Chloroaniline	30.0	20.8		ug/L		69	32 - 128
4-Chloro-3-methylphenol	30.0	26.5		ug/L		88	47 - 135
2-Chloronaphthalene	30.0	27.4		ug/L		91	24 - 150
2-Chlorophenol	30.0	19.5		ug/L		65	45 - 120
4-Chlorophenyl phenyl ether	30.0	27.9		ug/L		93	61 - 133
Dibenz[a,h]acridine	30.0	26.3		ug/L		88	60 - 131
Dibenzofuran	30.0	27.2		ug/L		91	62 - 124
3,3'-Dichlorobenzidine	40.0	40.2		ug/L		101	16 - 167
2,4-Dichlorophenol	30.0	24.2		ug/L		81	52 - 125
Diethyl phthalate	30.0	21.6		ug/L		72	55 - 140
2,4-Dimethylphenol	30.0	23.4		ug/L		78	52 - 121
Dimethyl phthalate	30.0	29.0		ug/L		97	50 - 133
Di-n-butyl phthalate	30.0	27.9		ug/L		93	59 - 144
4,6-Dinitro-ortho-cresol	60.0	72.9		ug/L		121	46 - 136
2,4-Dinitrophenol	101	144		ug/L		142	22 - 146
2,4-Dinitrotoluene	30.0	30.3		ug/L		101	54 - 141
2,6-Dinitrotoluene	30.0	29.1		ug/L		97	61 - 130
Di-n-octyl phthalate	30.0	26.7		ug/L		89	55 - 140
1,4-Dioxane	30.0	17.5		ug/L		58	10 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328762/2-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.0		ug/L		90	55 - 139
Hexachlorobenzene	30.0	33.0		ug/L		110	60 - 138
Hexachlorocyclopentadiene	30.0	21.6		ug/L		72	1 - 139
Hexachloroethane	30.0	22.6		ug/L		75	46 - 121
Indene	30.0	24.5		ug/L		82	17 - 141
Isophorone	30.0	24.1		ug/L		80	57 - 122
2-Methylphenol	30.0	23.1		ug/L		77	38 - 121
3 & 4 Methylphenol	30.0	20.7		ug/L		69	43 - 126
2-Nitroaniline	30.0	29.6		ug/L		99	52 - 135
3-Nitroaniline	30.0	23.9		ug/L		80	51 - 128
4-Nitroaniline	30.0	31.6		ug/L		105	38 - 141
Nitrobenzene	30.0	22.6		ug/L		75	52 - 128
2-Nitrophenol	30.0	24.9		ug/L		83	47 - 129
4-Nitrophenol	60.0	62.8		ug/L		105	34 - 137
N-Nitrosodimethylamine	30.0	24.8		ug/L		83	21 - 134
N-Nitrosodi-n-propylamine	30.0	23.1		ug/L		77	41 - 143
N-Nitrosodiphenylamine	29.8	28.3		ug/L		95	10 - 185
Pentachlorophenol	60.0	59.4		ug/L		99	38 - 138
Phenol	30.0	21.5		ug/L		72	37 - 120
Pyridine	30.0	17.6		ug/L		59	10 - 127
Quinoline	30.0	27.5		ug/L		92	10 - 164
2,4,5-Trichlorophenol	30.0	29.2		ug/L		97	53 - 130
2,4,6-Trichlorophenol	30.0	27.8		ug/L		93	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*34 - 120*
2-Fluorophenol	*51*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*71*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*
2,4,6-Tribromophenol	*111*		*15 - 135*

Lab Sample ID: LCS 400-328762/4-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		3	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*57*		*10 - 120*
Nitrobenzene-d5	*80*		*27 - 120*
Phenol-d5	*77*		*10 - 120*
Terphenyl-d14	*88*		*53 - 125*
2,4,6-Tribromophenol	*65*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328762/3-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	16.9		ug/L		56	10 - 145	11	30
Benzoic acid	126	97.7		ug/L		78	10 - 120	16	30
Benzyl alcohol	30.0	23.3		ug/L		78	51 - 121	5	30
Bis(2-chloroethoxy)methane	30.0	23.1		ug/L		77	54 - 123	2	30
Bis(2-chloroethyl)ether	30.0	25.9		ug/L		86	47 - 120	1	30
bis (2-chloroisopropyl) ether	30.0	20.8		ug/L		69	20 - 142	5	30
Bis(2-ethylhexyl) phthalate	30.0	27.4		ug/L		91	62 - 140	4	30
4-Bromophenyl phenyl ether	30.0	29.9		ug/L		100	62 - 132	4	30
Butyl benzyl phthalate	30.0	27.0		ug/L		90	51 - 150	3	30
4-Chloroaniline	30.0	20.3		ug/L		68	32 - 128	2	30
4-Chloro-3-methylphenol	30.0	26.6		ug/L		89	47 - 135	0	30
2-Chloronaphthalene	30.0	26.4		ug/L		88	24 - 150	4	30
2-Chlorophenol	30.0	22.6		ug/L		75	45 - 120	15	30
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	61 - 133	5	30
Dibenz[a,h]acridine	30.0	29.1		ug/L		97	60 - 131	10	30
Dibenzofuran	30.0	25.5		ug/L		85	62 - 124	6	30
3,3'-Dichlorobenzidine	40.0	38.5		ug/L		96	16 - 167	4	30
2,4-Dichlorophenol	30.0	26.0		ug/L		87	52 - 125	7	30
Diethyl phthalate	30.0	21.0		ug/L		70	55 - 140	3	30
2,4-Dimethylphenol	30.0	23.8		ug/L		79	52 - 121	2	30
Dimethyl phthalate	30.0	27.7		ug/L		92	50 - 133	5	30
Di-n-butyl phthalate	30.0	27.4		ug/L		91	59 - 144	2	30
4,6-Dinitro-ortho-cresol	60.0	72.8		ug/L		121	46 - 136	0	30
2,4-Dinitrophenol	101	127		ug/L		126	22 - 146	12	30
2,4-Dinitrotoluene	30.0	28.8		ug/L		96	54 - 141	5	30
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130	4	30
Di-n-octyl phthalate	30.0	26.4		ug/L		88	55 - 140	1	30
1,4-Dioxane	30.0	17.8		ug/L		59	10 - 130	2	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	25.6		ug/L		85	55 - 139	5	30
Hexachlorobenzene	30.0	32.2		ug/L		107	60 - 138	2	30
Hexachlorocyclopentadiene	30.0	19.7	J	ug/L		66	1 - 139	9	30
Hexachloroethane	30.0	21.1		ug/L		70	46 - 121	7	30
Indene	30.0	24.4		ug/L		81	17 - 141	0	30
Isophorone	30.0	23.4		ug/L		78	57 - 122	3	30
2-Methylphenol	30.0	24.5		ug/L		82	38 - 121	6	30
3 & 4 Methylphenol	30.0	21.4		ug/L		71	43 - 126	3	30
2-Nitroaniline	30.0	27.6		ug/L		92	52 - 135	7	30
3-Nitroaniline	30.0	21.8		ug/L		73	51 - 128	9	30
4-Nitroaniline	30.0	24.8		ug/L		83	38 - 141	24	30
Nitrobenzene	30.0	22.6		ug/L		75	52 - 128	0	30
2-Nitrophenol	30.0	28.1		ug/L		94	47 - 129	12	30
4-Nitrophenol	60.0	53.6		ug/L		89	34 - 137	16	30
N-Nitrosodimethylamine	30.0	24.8		ug/L		83	21 - 134	0	30
N-Nitrosodi-n-propylamine	30.0	22.0		ug/L		73	41 - 143	5	30
N-Nitrosodiphenylamine	29.8	27.4		ug/L		92	10 - 185	3	30
Pentachlorophenol	60.0	57.7		ug/L		96	38 - 138	3	30
Phenol	30.0	23.1		ug/L		77	37 - 120	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328762/3-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	30.0	16.8		ug/L		56	10 - 127	5	30
Quinoline	30.0	26.9		ug/L		90	10 - 164	2	30
2,4,5-Trichlorophenol	30.0	29.3		ug/L		98	53 - 130	0	30
2,4,6-Trichlorophenol	30.0	28.6		ug/L		95	52 - 131	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*34 - 120*
2-Fluorophenol	*66*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*77*		*10 - 120*
Terphenyl-d14	*91*		*53 - 125*
2,4,6-Tribromophenol	*112*		*15 - 135*

Lab Sample ID: LCSD 400-328762/5-A
Matrix: Water
Analysis Batch: 329333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	20 - 150	60	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*90*		*27 - 120*
Phenol-d5	*87*		*10 - 120*
Terphenyl-d14	*91*		*53 - 125*
2,4,6-Tribromophenol	*73*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 329333

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline - RERA	ND	H	28.6	16.8	H	ug/L		59	10 - 143
Benzoic acid - RERA	ND	H	120	141	H	ug/L		118	10 - 134
Benzyl alcohol - RERA	ND	H	28.6	24.1	H	ug/L		84	10 - 154
Bis(2-chloroethoxy)methane - RERA	ND	H	28.6	22.9	H	ug/L		80	14 - 147
Bis(2-chloroethyl)ether - RERA	ND	H	28.6	25.5	H	ug/L		89	28 - 130
bis (2-chloroisopropyl) ether - RERA	ND	H	28.6	20.1	H	ug/L		70	10 - 141
Bis(2-ethylhexyl) phthalate - RERA	ND	H	28.6	26.7	H	ug/L		93	43 - 160
4-Bromophenyl phenyl ether - RERA	ND	H	28.6	29.9	H	ug/L		105	26 - 159
Butyl benzyl phthalate - RERA	ND	H	28.6	26.2	H	ug/L		92	43 - 151

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 329333

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline - RERA	ND	H	28.6	17.4	H	ug/L		61	10 - 152
4-Chloro-3-methylphenol - RERA	ND	H	28.6	26.4	H	ug/L		92	17 - 156
2-Chloronaphthalene - RERA	ND	H	28.6	28.1	H	ug/L		99	10 - 155
2-Chlorophenol - RERA	ND	H	28.6	22.9	H	ug/L		80	19 - 130
4-Chlorophenyl phenyl ether - RERA	ND	H	28.6	26.9	H	ug/L		94	25 - 161
Dibenz[a,h]acridine - RERA	ND	H	28.6	23.3	H	ug/L		82	42 - 147
Dibenzofuran - RERA	ND	H	28.6	25.9	H	ug/L		90	18 - 157
3,3'-Dichlorobenzidine - RERA	ND	H	38.1	12.4	H	ug/L		33	10 - 172
2,4-Dichlorophenol - RERA	ND	H	28.6	26.1	H	ug/L		91	16 - 147
Diethyl phthalate - RERA	ND	H	28.6	19.8	H	ug/L		69	23 - 160
2,4-Dimethylphenol - RERA	ND	H	28.6	23.3	H	ug/L		82	25 - 146
Dimethyl phthalate - RERA	ND	H	28.6	27.9	H	ug/L		98	11 - 158
Di-n-butyl phthalate - RERA	ND	H	28.6	25.0	H	ug/L		88	28 - 162
4,6-Dinitro-ortho-cresol - RERA	ND	H	57.1	77.9	H	ug/L		136	10 - 168
2,4-Dinitrophenol - RERA	ND	H	96.3	159	H	ug/L		165	10 - 166
2,4-Dinitrotoluene - RERA	ND	H	28.6	28.0	H	ug/L		98	26 - 158
2,6-Dinitrotoluene - RERA	ND	H	28.6	28.7	H	ug/L		100	19 - 157
Di-n-octyl phthalate - RERA	0.55	J H	28.6	24.4	H	ug/L		84	42 - 150
1,4-Dioxane - RERA	ND	H	28.6	17.3	H	ug/L		60	10 - 130
1,2-Diphenylhydrazine (as Azobenzene) - RERA	ND	H	28.6	24.8	H	ug/L		87	19 - 162
Hexachlorobenzene - RERA	ND	H	28.6	31.2	H	ug/L		109	45 - 145
Hexachlorocyclopentadiene - RERA	ND	H	28.6	20.1	H	ug/L		70	10 - 151
Hexachloroethane - RERA	ND	H	28.6	21.6	H	ug/L		76	29 - 130
Indene - RERA	ND	H	28.6	23.2	H	ug/L		81	22 - 130
Isophorone - RERA	ND	H	28.6	23.3	H	ug/L		81	24 - 144
2-Methylphenol - RERA	ND	H	28.6	25.1	H	ug/L		88	22 - 130
3 & 4 Methylphenol - RERA	ND	H	28.6	19.6	H	ug/L		69	31 - 130
2-Nitroaniline - RERA	ND	H	28.6	23.8	H	ug/L		83	10 - 162
3-Nitroaniline - RERA	ND	H	28.6	20.7	H	ug/L		72	10 - 163
4-Nitroaniline - RERA	ND	H	28.6	24.7	H	ug/L		86	10 - 162
Nitrobenzene - RERA	ND	H	28.6	25.6	H	ug/L		90	34 - 135
2-Nitrophenol - RERA	ND	H	28.6	28.8	H	ug/L		101	27 - 134
4-Nitrophenol - RERA	ND	H	57.1	55.7	H	ug/L		97	10 - 175
N-Nitrosodimethylamine - RERA	ND	H	28.6	23.0	H	ug/L		81	10 - 139
N-Nitrosodi-n-propylamine - RERA	ND	H	28.6	21.4	H	ug/L		75	13 - 147
N-Nitrosodiphenylamine - RERA	ND	H	28.3	25.3	H	ug/L		89	31 - 150
Pentachlorophenol - RERA	ND	H	57.1	59.1	H	ug/L		103	10 - 180
Phenol - RERA	ND	H	28.6	22.0	H	ug/L		77	23 - 130
Pyridine - RERA	ND	H	28.6	15.9	H	ug/L		56	10 - 130
Quinoline - RERA	ND	H	28.6	11.1	H	ug/L		39	10 - 180
2,4,5-Trichlorophenol - RERA	ND	H	28.6	31.1	H	ug/L		109	43 - 137
2,4,6-Trichlorophenol - RERA	ND	H	28.6	30.0	H	ug/L		105	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl - RERA	*81*		*34 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 329333

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 328762

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol - RERA	*68*		*10 - 120*
Nitrobenzene-d5 - RERA	*74*		*27 - 120*
Phenol-d5 - RERA	*76*		*10 - 120*
Terphenyl-d14 - RERA	*88*		*53 - 125*
2,4,6-Tribromophenol - RERA	*124*		*15 - 135*

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 329333

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline - RERA	ND	H	28.6	17.0	H	ug/L		59	10 - 143	1	63
Benzoic acid - RERA	ND	H	120	145	H	ug/L		121	10 - 134	3	49
Benzyl alcohol - RERA	ND	H	28.6	23.5	H	ug/L		82	10 - 154	3	37
Bis(2-chloroethoxy)methane - RERA	ND	H	28.6	23.0	H	ug/L		80	14 - 147	0	70
Bis(2-chloroethyl)ether - RERA	ND	H	28.6	26.8	H	ug/L		94	28 - 130	5	42
bis (2-chloroisopropyl) ether - RERA	ND	H	28.6	19.9	H	ug/L		70	10 - 141	1	41
Bis(2-ethylhexyl) phthalate - RERA	ND	H	28.6	28.1	H	ug/L		98	43 - 160	5	35
4-Bromophenyl phenyl ether - RERA	ND	H	28.6	31.3	H	ug/L		109	26 - 159	4	30
Butyl benzyl phthalate - RERA	ND	H	28.6	27.0	H	ug/L		94	43 - 151	3	32
4-Chloroaniline - RERA	ND	H	28.6	16.4	H	ug/L		58	10 - 152	6	94
4-Chloro-3-methylphenol - RERA	ND	H	28.6	26.6	H	ug/L		93	17 - 156	1	40
2-Chloronaphthalene - RERA	ND	H	28.6	26.4	H	ug/L		92	10 - 155	6	29
2-Chlorophenol - RERA	ND	H	28.6	23.2	H	ug/L		81	19 - 130	1	42
4-Chlorophenyl phenyl ether - RERA	ND	H	28.6	27.5	H	ug/L		96	25 - 161	3	27
Dibenz[a,h]acridine - RERA	ND	H	28.6	27.2	H	ug/L		95	42 - 147	15	40
Dibenzofuran - RERA	ND	H	28.6	26.5	H	ug/L		93	18 - 157	3	29
3,3'-Dichlorobenzidine - RERA	ND	H	38.1	12.9	H	ug/L		34	10 - 172	4	58
2,4-Dichlorophenol - RERA	ND	H	28.6	26.3	H	ug/L		92	16 - 147	1	43
Diethyl phthalate - RERA	ND	H	28.6	21.2	H	ug/L		74	23 - 160	7	40
2,4-Dimethylphenol - RERA	ND	H	28.6	23.8	H	ug/L		83	25 - 146	2	47
Dimethyl phthalate - RERA	ND	H	28.6	28.2	H	ug/L		99	11 - 158	1	36
Di-n-butyl phthalate - RERA	ND	H	28.6	27.0	H	ug/L		95	28 - 162	8	32
4,6-Dinitro-ortho-cresol - RERA	ND	H	57.1	78.9	H	ug/L		138	10 - 168	1	42
2,4-Dinitrophenol - RERA	ND	H	96.3	149	H	ug/L		155	10 - 166	7	36
2,4-Dinitrotoluene - RERA	ND	H	28.6	27.9	H	ug/L		98	26 - 158	1	28
2,6-Dinitrotoluene - RERA	ND	H	28.6	28.5	H	ug/L		100	19 - 157	1	28
Di-n-octyl phthalate - RERA	0.55	J H	28.6	27.1	H	ug/L		93	42 - 150	10	35
1,4-Dioxane - RERA	ND	H	28.6	18.3	H	ug/L		64	10 - 130	6	40
1,2-Diphenylhydrazine (as Azobenzene) - RERA	ND	H	28.6	26.1	H	ug/L		91	19 - 162	5	40
Hexachlorobenzene - RERA	ND	H	28.6	33.0	H	ug/L		115	45 - 145	6	33
Hexachlorocyclopentadiene - RERA	ND	H	28.6	17.4	J H	ug/L		61	10 - 151	15	50
Hexachloroethane - RERA	ND	H	28.6	20.6	H	ug/L		72	29 - 130	5	41

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA (Continued)

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 329333

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA
Prep Batch: 328762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indene - RERA	ND	H	28.6	23.9	H	ug/L		84	22 - 130	3	40
Isophorone - RERA	ND	H	28.6	23.5	H	ug/L		82	24 - 144	1	33
2-Methylphenol - RERA	ND	H	28.6	25.2	H	ug/L		88	22 - 130	1	47
3 & 4 Methylphenol - RERA	ND	H	28.6	21.0	H	ug/L		74	31 - 130	7	47
2-Nitroaniline - RERA	ND	H	28.6	23.0	H	ug/L		81	10 - 162	3	33
3-Nitroaniline - RERA	ND	H	28.6	19.6	H	ug/L		69	10 - 163	5	39
4-Nitroaniline - RERA	ND	H	28.6	20.1	H	ug/L		70	10 - 162	20	50
Nitrobenzene - RERA	ND	H	28.6	25.0	H	ug/L		88	34 - 135	3	35
2-Nitrophenol - RERA	ND	H	28.6	28.8	H	ug/L		101	27 - 134	0	43
4-Nitrophenol - RERA	ND	H	57.1	55.0	H	ug/L		96	10 - 175	1	82
N-Nitrosodimethylamine - RERA	ND	H	28.6	24.2	H	ug/L		85	10 - 139	5	62
N-Nitrosodi-n-propylamine - RERA	ND	H	28.6	21.3	H	ug/L		75	13 - 147	1	36
N-Nitrosodiphenylamine - RERA	ND	H	28.3	26.2	H	ug/L		92	31 - 150	4	34
Pentachlorophenol - RERA	ND	H	57.1	62.0	H	ug/L		108	10 - 180	5	42
Phenol - RERA	ND	H	28.6	22.9	H	ug/L		80	23 - 130	4	52
Pyridine - RERA	ND	H	28.6	16.7	H	ug/L		59	10 - 130	5	55
Quinoline - RERA	ND	H	28.6	12.2	H	ug/L		43	10 - 180	10	40
2,4,5-Trichlorophenol - RERA	ND	H	28.6	30.4	H	ug/L		106	43 - 137	2	42
2,4,6-Trichlorophenol - RERA	ND	H	28.6	29.6	H	ug/L		104	42 - 135	1	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl - RERA	*85*		*34 - 120*
2-Fluorophenol - RERA	*71*		*10 - 120*
Nitrobenzene-d5 - RERA	*74*		*27 - 120*
Phenol-d5 - RERA	*82*		*10 - 120*
Terphenyl-d14 - RERA	*97*		*53 - 125*
2,4,6-Tribromophenol - RERA	*125*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-327727/1-A
Matrix: Water
Analysis Batch: 328097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
Anthracene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Chrysene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Fluoranthene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
Fluorene	ND		0.20	0.021	ug/L		10/21/16 11:03	10/24/16 16:39	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-327727/1-A
Matrix: Water
Analysis Batch: 328097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/21/16 11:03	10/24/16 16:39	1
Phenanthrene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
Pyrene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/21/16 11:03	10/24/16 16:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*96*		*33 - 138*	*10/21/16 11:03*	*10/24/16 16:39*	*1*
2-Fluorobiphenyl	*86*		*15 - 122*	*10/21/16 11:03*	*10/24/16 16:39*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*10/21/16 11:03*	*10/24/16 16:39*	*1*

Lab Sample ID: LCS 400-327727/2-A
Matrix: Water
Analysis Batch: 328268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	17.4		ug/L		58	41 - 120
Acenaphthylene	30.0	16.9		ug/L		56	44 - 120
Anthracene	30.0	18.1		ug/L		60	49 - 120
Benzo[a]anthracene	30.0	18.9		ug/L		63	61 - 135
Benzo[a]pyrene	30.0	19.1		ug/L		64	52 - 120
Benzo[b]fluoranthene	30.0	20.5		ug/L		68	53 - 134
Benzo[g,h,i]perylene	30.0	16.7		ug/L		56	47 - 133
Benzo[k]fluoranthene	30.0	17.1		ug/L		57	57 - 134
Chrysene	30.0	16.7		ug/L		56	55 - 122
Dibenz(a,h)anthracene	30.0	18.9		ug/L		63	48 - 146
Fluoranthene	30.0	19.8		ug/L		66	54 - 128
Fluorene	30.0	18.1		ug/L		60	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	18.8		ug/L		63	43 - 142
Phenanthrene	30.0	19.7		ug/L		66	48 - 120
Pyrene	30.0	18.3		ug/L		61	48 - 132
1-Methylnaphthalene	30.0	15.1		ug/L		50	41 - 120
2-Methylnaphthalene	30.0	15.0		ug/L		50	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*68*		*33 - 138*
2-Fluorobiphenyl	*55*		*15 - 122*
Nitrobenzene-d5	*52*		*19 - 130*

Lab Sample ID: LCSD 400-327727/3-A
Matrix: Water
Analysis Batch: 328268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	33.8	*	ug/L		113	41 - 120	64	56
Acenaphthylene	30.0	32.4	*	ug/L		108	44 - 120	63	56
Anthracene	30.0	35.9	*	ug/L		120	49 - 120	66	51
Benzo[a]anthracene	30.0	37.5	*	ug/L		125	61 - 135	66	49

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-327727/3-A
Matrix: Water
Analysis Batch: 328268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	30.0	37.0	*	ug/L		123	52 - 120	64	50
Benzo[b]fluoranthene	30.0	40.4	*	ug/L		135	53 - 134	65	54
Benzo[g,h,i]perylene	30.0	32.6	*	ug/L		109	47 - 133	65	50
Benzo[k]fluoranthene	30.0	33.3	*	ug/L		111	57 - 134	65	52
Chrysene	30.0	33.4	*	ug/L		111	55 - 122	67	50
Dibenz(a,h)anthracene	30.0	37.5	*	ug/L		125	48 - 146	66	50
Fluoranthene	30.0	39.3	*	ug/L		131	54 - 128	66	52
Fluorene	30.0	35.4	*	ug/L		118	45 - 125	64	56
Indeno[1,2,3-cd]pyrene	30.0	36.8	*	ug/L		123	43 - 142	65	51
Phenanthrene	30.0	38.3	*	ug/L		128	48 - 120	64	56
Pyrene	30.0	33.8	*	ug/L		113	48 - 132	60	52
1-Methylnaphthalene	30.0	26.0		ug/L		87	41 - 120	53	55
2-Methylnaphthalene	30.0	25.9		ug/L		86	32 - 124	53	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*134*		*33 - 138*
2-Fluorobiphenyl	*108*		*15 - 122*
Nitrobenzene-d5	*89*		*19 - 130*

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 328097

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 327727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.054	J *	28.6	27.9		ug/L		98	35 - 113
Acenaphthylene	ND	*	28.6	26.0		ug/L		91	41 - 118
Anthracene	ND	*	28.6	23.7		ug/L		83	45 - 122
Benzo[a]anthracene	ND	*	28.6	24.3		ug/L		85	55 - 133
Benzo[a]pyrene	ND	*	28.6	20.6		ug/L		72	50 - 108
Benzo[b]fluoranthene	ND	*	28.6	23.0		ug/L		80	50 - 128
Benzo[g,h,i]perylene	ND	*	28.6	19.0		ug/L		67	46 - 133
Benzo[k]fluoranthene	ND	*	28.6	22.4		ug/L		78	52 - 128
Chrysene	ND	*	28.6	24.6		ug/L		86	52 - 116
Dibenz(a,h)anthracene	ND	*	28.6	20.1		ug/L		70	52 - 143
Fluoranthene	ND	*	28.6	26.0		ug/L		91	32 - 150
Fluorene	0.040	J *	28.6	29.9		ug/L		105	15 - 150
Indeno[1,2,3-cd]pyrene	ND	*	28.6	19.5		ug/L		68	41 - 141
Phenanthrene	ND	*	28.6	24.6		ug/L		86	36 - 125
Pyrene	ND	*	28.6	24.3		ug/L		85	41 - 127
1-Methylnaphthalene	0.095	J	28.6	21.4		ug/L		75	10 - 150
2-Methylnaphthalene	0.046	J	28.6	21.3		ug/L		74	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*83*		*33 - 138*
2-Fluorobiphenyl	*99*		*15 - 122*
Nitrobenzene-d5	*87*		*19 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128764-2 MSD — **Client Sample ID: MW14-ROX-101416-MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 328097 — **Prep Batch: 327727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.054	J *	28.6	21.9		ug/L		76	35 - 113	24	49
Acenaphthylene	ND	*	28.6	20.4		ug/L		71	41 - 118	24	48
Anthracene	ND	*	28.6	21.3		ug/L		75	45 - 122	11	56
Benzo[a]anthracene	ND	*	28.6	21.7		ug/L		76	55 - 133	11	57
Benzo[a]pyrene	ND	*	28.6	18.6		ug/L		65	50 - 108	10	59
Benzo[b]fluoranthene	ND	*	28.6	20.2		ug/L		71	50 - 128	13	62
Benzo[g,h,i]perylene	ND	*	28.6	18.5		ug/L		65	46 - 133	3	58
Benzo[k]fluoranthene	ND	*	28.6	20.1		ug/L		70	52 - 128	11	58
Chrysene	ND	*	28.6	22.2		ug/L		78	52 - 116	10	59
Dibenz(a,h)anthracene	ND	*	28.6	20.1		ug/L		70	52 - 143	0	60
Fluoranthene	ND	*	28.6	24.6		ug/L		86	32 - 150	5	59
Fluorene	0.040	J *	28.6	24.8		ug/L		87	15 - 150	19	49
Indeno[1,2,3-cd]pyrene	ND	*	28.6	19.3		ug/L		67	41 - 141	1	58
Phenanthrene	ND	*	28.6	22.5		ug/L		79	36 - 125	9	69
Pyrene	ND	*	28.6	22.3		ug/L		78	41 - 127	9	58
1-Methylnaphthalene	0.095	J	28.6	15.5		ug/L		54	10 - 150	32	66
2-Methylnaphthalene	0.046	J	28.6	15.5		ug/L		54	10 - 150	32	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*71*		*33 - 138*
2-Fluorobiphenyl	*70*		*15 - 122*
Nitrobenzene-d5	*58*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327548/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327718 — **Prep Batch: 327548**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/20/16 10:29	10/21/16 03:19	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/20/16 10:29	10/21/16 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*177*	*X*	*51 - 149*	*10/20/16 10:29*	*10/21/16 03:19*	*1*

Lab Sample ID: LCS 400-327548/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327718 — **Prep Batch: 327548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.115		ug/L		115	60 - 140
1,2-Dibromoethane	0.100	0.124		ug/L		124	60 - 140

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-128764-2 MS
Matrix: Water
Analysis Batch: 327718

Client Sample ID: MW14-ROX-101416-MS
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0980		ug/L		95	65 - 135
1,2-Dibromoethane	ND		0.103	0.108		ug/L		105	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*120*		*51 - 149*

Lab Sample ID: 400-128764-2 MSD
Matrix: Water
Analysis Batch: 327718

Client Sample ID: MW14-ROX-101416-MSD
Prep Type: Total/NA
Prep Batch: 327548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.101	0.0923		ug/L		91	65 - 135	6	20
1,2-Dibromoethane	ND		0.101	0.0941		ug/L		93	65 - 135	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*117*		*51 - 149*

Lab Sample ID: MB 400-327995/1-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:45	10/24/16 19:41	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:45	10/24/16 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/24/16 09:45*	*10/24/16 19:41*	*1*

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0984		ug/L		98	60 - 140
1,2-Dibromoethane	0.100	0.0850		ug/L		85	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*118*		*51 - 149*

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0966		ug/L		97	60 - 140	2	30
1,2-Dibromoethane	0.100	0.0913		ug/L		91	60 - 140	7	30

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	128		51 - 149

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (Lab Vendor # 1364588 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☑ OTHER _ENV. SERVICES	

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10/14/16
PAGE: 1 of 1

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID:

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): M. Miller / J. Peters

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) __EDD_____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- Please include "J" values on Reports
- Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL

NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

400-128764 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	MW14-ROX-101416-EB	10/14/16	0940	WATER	4			2		6	X	X	X	X
	MW14-ROX-101416	10/14/16	1040	WATER	4			2		6	X	X	X	X
	MW14-ROX-101416-MS	10/14/16	1040	WATER	4			2		6	X	X	X	X
	MW14-ROX-101416-MSD	10/14/16	1040	WATER	4			2		6	X	X	X	X
	P66-ROX-101416	10/14/16	1205	WATER	4			2		6	X	X	X	X
	P74-ROX-101416	10/14/16	1440	WATER	4			2		6	X	X	X	X
	TB-ROX-101416-8260	10/14/16	0000	WATER	2					2			X	
	TB-ROX-101416-8011	10/14/16	0000	WATER	2					2	X			

Relinquished by: (Signature)

Received by: (Signature) (10/15/16) (913)

Relinquished by: (Signature)

Received by: (Signature) 10/14/16 1730

Date: 10/14/16 Time: 1730

CUSTODY SEALS; TEST AMERICA
784777/784776/784779
784775/784773/784776
784774/784780

Ref: Dep: 1/7/2016

Date: 28Jul16 Wgt: 10.00 LBS DV: 0.00 Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7664
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00

Ref: S400-57320 Dep:

Date: 27Jul16 Wgt: 10.00 LBS DV: 0.00 Svcs: PRIORITY OVERNIGHT TRCK: 6546 8387 7127
SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00

2.1°C 3.4°C
3.9°C 3.2°C

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128764-1
SDG Number: Proj. 60477387 - 1.03.0044/1.03.004

Login Number: 128764
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C,3.9°C,3.4°C,3.2°C IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128764-1
SDG: Proj. 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128842-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/30/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101716-8260-SS	TB-ROX-101716-8011-SS
P56-ROX-101716-EB	P56-ROX-101716
T12-ROX-101716	P93D-ROX-101716

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, VOCs and PAHs were detected in the equipment blank. Several SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria. The SVOC surrogate recovery of terphenyl-d_{14} in sample P56-ROX-101716 was outside criteria. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in sample P93D-ROX-101716 and equipment blank P56-ROX-101716-EB, and the SVOC internal standard area recovery for chrysene-d_{12} was also outside criteria in equipment blank P56-ROX-101716-EB. VOCs and phenol were minimally diluted in sample T12-ROX-101716 to bring analyte concentrations within calibration range. These issues are addressed further in the appropriate sections below.

Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

Although the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
P56-ROX-101716-EB	VOCs	Ethylbenzene	1.4 µg/L
P56-ROX-101716-EB	VOCs	m,p-Xylene	2.1 µg/L
P56-ROX-101716-EB	VOCs	o-Xylene	1.0 µg/L
P56-ROX-101716-EB	VOCs	Xylene (total)	3.1 µg/L
P56-ROX-101716-EB	PAHs	1-Methylnaphthalene	0.020 µg/L
P56-ROX-101716-EB	PAHs	2-Methylnaphthalene	0.034 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. Please see section 12.0 of this review for additional qualifications regarding samples associated with equipment blank P56-ROX-101716-EB.

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
LCS/LCSD 400-328073/2-A/3-A	SVOCs	1,2-Diphenylhydrazine (as Azobenzene)	107/76	**35**	55-139/30
LCS/LCSD 400-328073/2-A/3-A	SVOCs	n-Nitrosodiphenylamine	88/79	**31**	10-185/30
LCS/LCSD 400-328073/4-A/5-A	SVOCs	Benzenethiol	54/**13**	**125**	20-150/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
P56-ROX-101716	SVOCs	Benzenethiol	**UJ**
T12-ROX-101716	SVOCs	Benzenethiol	**UJ**
P93D-ROX-101716	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P56-ROX-101716	SVOCs	Terphenyl-d_{14}	**40**	53-125

Qualifications due to surrogate recoveries were not required due to only one of three base/neutral fraction surrogate recoveries being outside evaluation criteria in sample P56-ROX-101716. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
P56-ROX-101716-EB	SVOCs	Chrysene-d_{12}	**1018646**	1044106-4176422
P56-ROX-101716-EB	SVOCs	Perylene-d_{12}	**809415**	919993-3679972
P93D-ROX-101716	SVOCs	Perylene-d_{12}	**892349**	919993-3679972

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below. Equipment blank P56-ROX-101716-EB is a quality control sample and does not require qualification.

Sample ID	Parameter	Analyte	Qualification
P93D-ROX-101716	SVOCs	Dibenz[a,h]acridine	**UJ**
P93D-ROX-101716	SVOCs	Di-n-octyl phthalate	**UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was also used to qualify as estimated, however not reject, data that was only associated with equipment blank P56-ROX-101716-EB. Analytical data that required qualification based on equipment blank detections are included in the table below.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P56-ROX-101716	VOCs	o-Xylene	-	**J**

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128842-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
11/7/2016 6:30:05 PM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

Reviewed 11/30/2016 CH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Job ID: 400-128842-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128842-1

Receipt
The samples were received on 10/18/2016 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8°C, 2.8°C and 4.5°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: TB-ROX-101716-8260-SS (400-128842-1). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328647 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-328647 because the recoveriesere bel the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: P56-ROX-101716-EB (400-128842-3), P56-ROX-101716 (400-128842-4), T12-ROX-101716 (400-128842-5) and P93D-ROX-101716 (400-128842-6). The requested target analyte list includes 2-chloroethyl vinyl ether, acrylonitrile, and acrolein, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328720 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-328720 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 400-328073 recovered outside control limits for the following analytes: 1,2-Diphenylhydrazine (as Azobenzene) and N-Nitrosodiphenylamine.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-328073 and analytical batch 400-328374 recovered outside control limits for the following analyte(s): Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Internal standard responses were outside of acceptance limits for the following samples: P56-ROX-101716-EB (400-128842-3) and P93D-ROX-101716 (400-128842-6). The sample(s) shows evidence of matrix interference.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: P56-ROX-101716 (400-128842-4). These results have been reported and qualified.

The following sample was diluted to bring the concentration of target analytes within the calibration range: T12-ROX-101716 (400-128842-5). Elevated reporting limits (RLs) are provided.

Method8270D LL: Internal standard (ISTD) response for Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene for the following samples was outside acceptance criteria: (MB 400-328073/1-A). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Organic Prep

Job ID: 400-128842-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-328073.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128842-1	TB-ROX-101716-8260-SS	Water	10/17/16 00:00	10/18/16 09:11
400-128842-2	TB-ROX-1001716-8011-SS	Water	10/17/16 00:00	10/18/16 09:11
400-128842-3	P56-ROX-101716-EB	Water	10/17/16 11:00	10/18/16 09:11
400-128842-4	P56-ROX-101716	Water	10/17/16 11:40	10/18/16 09:11
400-128842-5	T12-ROX-101716	Water	10/17/16 14:10	10/18/16 09:11
400-128842-6	P93D-ROX-101716	Water	10/17/16 15:30	10/18/16 09:11

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260-SS

Lab Sample ID: 400-128842-1

No Detections.

Client Sample ID: TB-ROX-1001716-8011-SS

Lab Sample ID: 400-128842-2

No Detections.

Client Sample ID: P56-ROX-101716-EB

Lab Sample ID: 400-128842-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.4		1.0	0.50	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	2.1	J	5.0	1.6	ug/L	1		8260B	Total/NA
o-Xylene	1.0	J	5.0	0.60	ug/L	1		8260B	Total/NA
Xylenes, Total	3.1	J	10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.020	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.034	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: P56-ROX-101716

Lab Sample ID: 400-128842-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	47		25	10	ug/L	1		8260B	Total/NA
Benzene	19		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	14	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	51		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	31		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	180		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	23		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	1.8		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	36		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	4.7	J	5.0	0.60	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	1.7		1.0	0.71	ug/L	1		8260B	Total/NA
sec-Butylbenzene	2.2		1.0	0.70	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.76	J	1.0	0.63	ug/L	1		8260B	Total/NA
Toluene	11		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	62		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	15		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	190		10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.43		0.20	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.79		0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	6.9		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	2.9		0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: T12-ROX-101716

Lab Sample ID: 400-128842-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1700		10	3.8	ug/L	10		8260B	Total/NA
Chloroform	6.5	J	10	6.0	ug/L	10		8260B	Total/NA
Ethylbenzene	120		10	5.0	ug/L	10		8260B	Total/NA
Isopropylbenzene	14		10	5.3	ug/L	10		8260B	Total/NA
Methyl tert-butyl ether	23		10	7.4	ug/L	10		8260B	Total/NA
m-Xylene & p-Xylene	370		50	16	ug/L	10		8260B	Total/NA
Naphthalene	90		10	10	ug/L	10		8260B	Total/NA
N-Propylbenzene	22		10	6.9	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: T12-ROX-101716 (Continued)

Lab Sample ID: 400-128842-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	8.2	J	50	6.0	ug/L	10		8260B	Total/NA
Toluene	150		10	7.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	63		10	8.2	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	7.3	J	10	5.6	ug/L	10		8260B	Total/NA
Xylenes, Total	380		100	16	ug/L	10		8260B	Total/NA
Acenaphthene	0.38		0.20	0.020	ug/L	1		8270D LL	Total/NA
Acenaphthylene	0.067	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.28		0.20	0.021	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.60		0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	17		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	21		0.20	0.020	ug/L	1		8270D LL	Total/NA
2,4-Dimethylphenol	20		9.8	3.4	ug/L	1		8270D	Total/NA
Phenol	73		20	5.1	ug/L	2		8270D	Total/NA

Client Sample ID: P93D-ROX-101716

Lab Sample ID: 400-128842-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23		1.0	0.38	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.6		1.0	0.74	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260-SS
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 05:36	1
Acrolein	ND		20	10	ug/L			10/28/16 05:36	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 05:36	1
Benzene	ND		1.0	0.38	ug/L			10/28/16 05:36	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 05:36	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 05:36	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 05:36	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 05:36	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 05:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 05:36	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 05:36	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 05:36	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 05:36	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 05:36	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 05:36	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 05:36	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 05:36	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 05:36	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 05:36	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 05:36	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 05:36	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 05:36	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 05:36	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 05:36	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 05:36	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 05:36	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/16 05:36	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 05:36	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 05:36	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 05:36	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 05:36	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/16 05:36	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 05:36	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 05:36	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260-SS
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 05:36	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 05:36	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 05:36	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 05:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 05:36	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 05:36	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 05:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 05:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 05:36	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 05:36	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 05:36	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 05:36	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 05:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 05:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 05:36	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 05:36	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 05:36	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/16 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*10/28/16 05:36*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/28/16 05:36*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/16 05:36*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-1001716-8011-SS
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/24/16 09:45	10/24/16 21:09	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 09:45	10/24/16 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*127*		*51 - 149*	*10/24/16 09:45*	*10/24/16 21:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716-EB
Date Collected: 10/17/16 11:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 19:49	1
Acrolein	ND		20	10	ug/L			10/28/16 19:49	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 19:49	1
Benzene	ND		1.0	0.38	ug/L			10/28/16 19:49	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 19:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 19:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 19:49	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 19:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 19:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 19:49	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 19:49	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 19:49	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 19:49	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 19:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 19:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 19:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 19:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 19:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Ethylbenzene	1.4		1.0	0.50	ug/L			10/28/16 19:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 19:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 19:49	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 19:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 19:49	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 19:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 19:49	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 19:49	1
m-Xylene & p-Xylene	2.1	J	5.0	1.6	ug/L			10/28/16 19:49	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 19:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 19:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 19:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 19:49	1
o-Xylene	1.0	J	5.0	0.60	ug/L			10/28/16 19:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 19:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 19:49	1

Client: AECOM Technical Services Inc
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716-EB
Date Collected: 10/17/16 11:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 19:49	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 19:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 19:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 19:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 19:49	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 19:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 19:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 19:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 19:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 19:49	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 19:49	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 19:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 19:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 19:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 19:49	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 19:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 19:49	1
Xylenes, Total	**3.1**	**J**	10	1.6	ug/L			10/28/16 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*10/28/16 19:49*	*1*
Dibromofluoromethane	*115*		*81 - 121*		*10/28/16 19:49*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/28/16 19:49*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
Anthracene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Chrysene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Fluoranthene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
Fluorene	ND		0.20	0.021	ug/L		10/24/16 15:51	10/26/16 13:43	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 13:43	1
Phenanthrene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
Pyrene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
1-Methylnaphthalene	**0.020**	**J**	0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1
2-Methylnaphthalene	**0.034**	**J**	0.20	0.020	ug/L		10/24/16 15:51	10/26/16 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*113*		*33 - 138*	*10/24/16 15:51*	*10/26/16 13:43*	*1*
2-Fluorobiphenyl	*83*		*15 - 122*	*10/24/16 15:51*	*10/26/16 13:43*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716-EB
Date Collected: 10/17/16 11:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	96		19 - 130	10/24/16 15:51	10/26/16 13:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 20:39	1
Benzenethiol	ND	*	10	1.7	ug/L		10/24/16 15:51	10/26/16 20:39	1
Benzoic acid	ND		30	7.3	ug/L		10/24/16 15:51	10/26/16 20:39	1
Benzyl alcohol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 20:39	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/24/16 15:51	10/26/16 20:39	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/24/16 15:51	10/26/16 20:39	1
Bis(2-ethylhexyl) phthalate	ND	*	10	2.3	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/24/16 15:51	10/26/16 20:39	1
Butyl benzyl phthalate	ND	*	10	0.69	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Chloroaniline	ND		10	3.4	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 20:39	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 20:39	1
2-Chlorophenol	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Dibenz[a,h]acridine	ND	*	10	3.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Dibenzofuran	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 20:39	1
3,3'-Dichlorobenzidine	ND	*	10	2.6	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Diethyl phthalate	ND		10	0.70	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 20:39	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/24/16 15:51	10/26/16 20:39	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/24/16 15:51	10/26/16 20:39	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 20:39	1
Di-n-octyl phthalate	ND	*	10	0.44	ug/L		10/24/16 15:51	10/26/16 20:39	1
1,4-Dioxane	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	10	1.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/24/16 15:51	10/26/16 20:39	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/24/16 15:51	10/26/16 20:39	1
Hexachloroethane	ND		10	4.2	ug/L		10/24/16 15:51	10/26/16 20:39	1
Indene	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
Isophorone	ND		10	0.57	ug/L		10/24/16 15:51	10/26/16 20:39	1
2-Methylphenol	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 20:39	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
2-Nitroaniline	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 20:39	1
3-Nitroaniline	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Nitroaniline	ND		10	2.5	ug/L		10/24/16 15:51	10/26/16 20:39	1
Nitrobenzene	ND		10	0.55	ug/L		10/24/16 15:51	10/26/16 20:39	1
2-Nitrophenol	ND		10	0.65	ug/L		10/24/16 15:51	10/26/16 20:39	1
4-Nitrophenol	ND		10	2.1	ug/L		10/24/16 15:51	10/26/16 20:39	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 20:39	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716-EB
Date Collected: 10/17/16 11:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/24/16 15:51	10/26/16 20:39	1
N-Nitrosodiphenylamine	ND	*	10	0.47	ug/L		10/24/16 15:51	10/26/16 20:39	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 20:39	1
Phenol	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 20:39	1
Pyridine	ND		10	3.2	ug/L		10/24/16 15:51	10/26/16 20:39	1
Quinoline	ND		10	6.0	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/24/16 15:51	10/26/16 20:39	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*34 - 120*	*10/24/16 15:51*	*10/26/16 20:39*	*1*
2-Fluorophenol	*50*		*10 - 120*	*10/24/16 15:51*	*10/26/16 20:39*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/24/16 15:51*	*10/26/16 20:39*	*1*
Phenol-d5	*62*		*10 - 120*	*10/24/16 15:51*	*10/26/16 20:39*	*1*
Terphenyl-d14	*92*	*	*53 - 125*	*10/24/16 15:51*	*10/26/16 20:39*	*1*
2,4,6-Tribromophenol	*94*		*15 - 135*	*10/24/16 15:51*	*10/26/16 20:39*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 09:45	10/24/16 21:39	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/24/16 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*120*		*51 - 149*	*10/24/16 09:45*	*10/24/16 21:39*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716
Date Collected: 10/17/16 11:40
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**47**		25	10	ug/L			10/28/16 20:15	1
Acrolein	ND		20	10	ug/L			10/28/16 20:15	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 20:15	1
Benzene	**19**		1.0	0.38	ug/L			10/28/16 20:15	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 20:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 20:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 20:15	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 20:15	1
2-Butanone (MEK)	**14**	J	25	2.6	ug/L			10/28/16 20:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 20:15	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 20:15	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 20:15	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 20:15	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 20:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 20:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 20:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 20:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 20:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Ethylbenzene	**51**		1.0	0.50	ug/L			10/28/16 20:15	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 20:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 20:15	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 20:15	1
Isopropylbenzene	**31**		1.0	0.53	ug/L			10/28/16 20:15	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 20:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 20:15	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 20:15	1
m-Xylene & p-Xylene	**180**		5.0	1.6	ug/L			10/28/16 20:15	1
Naphthalene	**23**		1.0	1.0	ug/L			10/28/16 20:15	1
n-Butylbenzene	**1.8**		1.0	0.76	ug/L			10/28/16 20:15	1
N-Propylbenzene	**36**		1.0	0.69	ug/L			10/28/16 20:15	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 20:15	1
o-Xylene	**4.7**	J	5.0	0.60	ug/L			10/28/16 20:15	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 20:15	1
p-Isopropyltoluene	**1.7**		1.0	0.71	ug/L			10/28/16 20:15	1

Client Sample ID: P56-ROX-101716
Date Collected: 10/17/16 11:40
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	2.2		1.0	0.70	ug/L			10/28/16 20:15	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 20:15	1
tert-Butylbenzene	0.76	J	1.0	0.63	ug/L			10/28/16 20:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 20:15	1
Toluene	11		1.0	0.70	ug/L			10/28/16 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 20:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 20:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 20:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 20:15	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 20:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 20:15	1
1,2,4-Trimethylbenzene	62		1.0	0.82	ug/L			10/28/16 20:15	1
1,3,5-Trimethylbenzene	15		1.0	0.56	ug/L			10/28/16 20:15	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 20:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 20:15	1
Xylenes, Total	190		10	1.6	ug/L			10/28/16 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/28/16 20:15*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/28/16 20:15*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/28/16 20:15*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.43		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
Anthracene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Chrysene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Fluoranthene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
Fluorene	ND		0.20	0.021	ug/L		10/24/16 15:51	10/26/16 14:09	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/24/16 15:51	10/26/16 14:09	1
Phenanthrene	0.79		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
Pyrene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
1-Methylnaphthalene	6.9		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1
2-Methylnaphthalene	2.9		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*45*		*33 - 138*	*10/24/16 15:51*	*10/26/16 14:09*	*1*
2-Fluorobiphenyl	*61*		*15 - 122*	*10/24/16 15:51*	*10/26/16 14:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716
Date Collected: 10/17/16 11:40
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		19 - 130	10/24/16 15:51	10/26/16 14:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 21:13	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		10/24/16 15:51	10/26/16 21:13	1
Benzoic acid	ND		30	7.3	ug/L		10/24/16 15:51	10/26/16 21:13	1
Benzyl alcohol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 21:13	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/24/16 15:51	10/26/16 21:13	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/24/16 15:51	10/26/16 21:13	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/24/16 15:51	10/26/16 21:13	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Chloroaniline	ND		10	3.4	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 21:13	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 21:13	1
2-Chlorophenol	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Dibenzofuran	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 21:13	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Diethyl phthalate	ND		10	0.70	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 21:13	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/24/16 15:51	10/26/16 21:13	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/24/16 15:51	10/26/16 21:13	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 21:13	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/24/16 15:51	10/26/16 21:13	1
1,4-Dioxane	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	10	1.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/24/16 15:51	10/26/16 21:13	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/24/16 15:51	10/26/16 21:13	1
Hexachloroethane	ND		10	4.2	ug/L		10/24/16 15:51	10/26/16 21:13	1
Indene	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
Isophorone	ND		10	0.57	ug/L		10/24/16 15:51	10/26/16 21:13	1
2-Methylphenol	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 21:13	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
2-Nitroaniline	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 21:13	1
3-Nitroaniline	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Nitroaniline	ND		10	2.5	ug/L		10/24/16 15:51	10/26/16 21:13	1
Nitrobenzene	ND		10	0.55	ug/L		10/24/16 15:51	10/26/16 21:13	1
2-Nitrophenol	ND		10	0.65	ug/L		10/24/16 15:51	10/26/16 21:13	1
4-Nitrophenol	ND		10	2.1	ug/L		10/24/16 15:51	10/26/16 21:13	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 21:13	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P56-ROX-101716
Date Collected: 10/17/16 11:40
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/24/16 15:51	10/26/16 21:13	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/24/16 15:51	10/26/16 21:13	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 21:13	1
Phenol	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 21:13	1
Pyridine	ND		10	3.2	ug/L		10/24/16 15:51	10/26/16 21:13	1
Quinoline	ND		10	6.0	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/24/16 15:51	10/26/16 21:13	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/24/16 15:51*	*10/26/16 21:13*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/24/16 15:51*	*10/26/16 21:13*	*1*
Nitrobenzene-d5	*65*		*27 - 120*	*10/24/16 15:51*	*10/26/16 21:13*	*1*
Phenol-d5	*61*		*10 - 120*	*10/24/16 15:51*	*10/26/16 21:13*	*1*
Terphenyl-d14	*40*	*X*	*53 - 125*	*10/24/16 15:51*	*10/26/16 21:13*	*1*
2,4,6-Tribromophenol	*80*		*15 - 135*	*10/24/16 15:51*	*10/26/16 21:13*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/24/16 09:45	10/24/16 22:09	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 09:45	10/24/16 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*68*	*p*	*51 - 149*	*10/24/16 09:45*	*10/24/16 22:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: T12-ROX-101716
Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	100	ug/L			10/28/16 21:08	10
Acrolein	ND		200	100	ug/L			10/28/16 21:08	10
Acrylonitrile	ND		100	28	ug/L			10/28/16 21:08	10
Benzene	**1700**		10	3.8	ug/L			10/28/16 21:08	10
Bromobenzene	ND		10	5.4	ug/L			10/28/16 21:08	10
Bromochloromethane	ND		10	5.2	ug/L			10/28/16 21:08	10
Bromodichloromethane	ND		10	5.0	ug/L			10/28/16 21:08	10
Bromoform	ND		50	7.1	ug/L			10/28/16 21:08	10
Bromomethane	ND		10	9.8	ug/L			10/28/16 21:08	10
2-Butanone (MEK)	ND		250	26	ug/L			10/28/16 21:08	10
Carbon disulfide	ND		10	5.0	ug/L			10/28/16 21:08	10
Carbon tetrachloride	ND		10	5.0	ug/L			10/28/16 21:08	10
Chlorobenzene	ND		10	5.0	ug/L			10/28/16 21:08	10
Dibromochloromethane	ND		10	5.0	ug/L			10/28/16 21:08	10
Chloroethane	ND		10	7.6	ug/L			10/28/16 21:08	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			10/28/16 21:08	10
Chloroform	**6.5**	**J**	10	6.0	ug/L			10/28/16 21:08	10
1-Chlorohexane	ND		10	7.0	ug/L			10/28/16 21:08	10
Chloromethane	ND		10	8.3	ug/L			10/28/16 21:08	10
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			10/28/16 21:08	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			10/28/16 21:08	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			10/28/16 21:08	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			10/28/16 21:08	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			10/28/16 21:08	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			10/28/16 21:08	10
1,1-Dichloroethane	ND		10	5.0	ug/L			10/28/16 21:08	10
1,2-Dichloroethane	ND		10	5.0	ug/L			10/28/16 21:08	10
1,1-Dichloroethene	ND		10	5.0	ug/L			10/28/16 21:08	10
1,2-Dichloropropane	ND		10	5.0	ug/L			10/28/16 21:08	10
1,3-Dichloropropane	ND		10	5.0	ug/L			10/28/16 21:08	10
2,2-Dichloropropane	ND		10	5.0	ug/L			10/28/16 21:08	10
1,1-Dichloropropene	ND		10	5.0	ug/L			10/28/16 21:08	10
Ethylbenzene	**120**		10	5.0	ug/L			10/28/16 21:08	10
Ethyl methacrylate	ND		10	6.0	ug/L			10/28/16 21:08	10
Hexachlorobutadiene	ND		50	9.0	ug/L			10/28/16 21:08	10
2-Hexanone	ND		250	31	ug/L			10/28/16 21:08	10
Isopropylbenzene	**14**		10	5.3	ug/L			10/28/16 21:08	10
Methylene bromide	ND		50	5.9	ug/L			10/28/16 21:08	10
Methylene Chloride	ND		50	30	ug/L			10/28/16 21:08	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			10/28/16 21:08	10
Methyl tert-butyl ether	**23**		10	7.4	ug/L			10/28/16 21:08	10
m-Xylene & p-Xylene	**370**		50	16	ug/L			10/28/16 21:08	10
Naphthalene	**90**		10	10	ug/L			10/28/16 21:08	10
n-Butylbenzene	ND		10	7.6	ug/L			10/28/16 21:08	10
N-Propylbenzene	**22**		10	6.9	ug/L			10/28/16 21:08	10
o-Chlorotoluene	ND		10	5.7	ug/L			10/28/16 21:08	10
o-Xylene	**8.2**	**J**	50	6.0	ug/L			10/28/16 21:08	10
p-Chlorotoluene	ND		10	5.6	ug/L			10/28/16 21:08	10
p-Isopropyltoluene	ND		10	7.1	ug/L			10/28/16 21:08	10

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: T12-ROX-101716
Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10	7.0	ug/L			10/28/16 21:08	10
Styrene	ND		10	10	ug/L			10/28/16 21:08	10
tert-Butylbenzene	ND		10	6.3	ug/L			10/28/16 21:08	10
1,1,1,2-Tetrachloroethane	ND		10	5.2	ug/L			10/28/16 21:08	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			10/28/16 21:08	10
Tetrachloroethene	ND		10	5.8	ug/L			10/28/16 21:08	10
Toluene	150		10	7.0	ug/L			10/28/16 21:08	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			10/28/16 21:08	10
trans-1,3-Dichloropropene	ND		50	5.0	ug/L			10/28/16 21:08	10
1,2,3-Trichlorobenzene	ND		10	7.0	ug/L			10/28/16 21:08	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			10/28/16 21:08	10
1,1,1-Trichloroethane	ND		10	5.0	ug/L			10/28/16 21:08	10
1,1,2-Trichloroethane	ND		50	5.0	ug/L			10/28/16 21:08	10
Trichloroethene	ND		10	5.0	ug/L			10/28/16 21:08	10
Trichlorofluoromethane	ND		10	5.2	ug/L			10/28/16 21:08	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			10/28/16 21:08	10
1,2,4-Trimethylbenzene	63		10	8.2	ug/L			10/28/16 21:08	10
1,3,5-Trimethylbenzene	7.3	J	10	5.6	ug/L			10/28/16 21:08	10
Vinyl acetate	ND		250	20	ug/L			10/28/16 21:08	10
Vinyl chloride	ND		10	5.0	ug/L			10/28/16 21:08	10
Xylenes, Total	380		100	16	ug/L			10/28/16 21:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/28/16 21:08*	*10*
Dibromofluoromethane	*103*		*81 - 121*		*10/28/16 21:08*	*10*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/16 21:08*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.38		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
Acenaphthylene	0.067	J	0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
Anthracene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Chrysene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Fluoranthene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
Fluorene	0.28		0.20	0.021	ug/L		10/24/16 15:51	10/26/16 14:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/24/16 15:51	10/26/16 14:34	1
Phenanthrene	0.60		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
Pyrene	ND		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
1-Methylnaphthalene	17		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1
2-Methylnaphthalene	21		0.20	0.020	ug/L		10/24/16 15:51	10/26/16 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*33 - 138*	*10/24/16 15:51*	*10/26/16 14:34*	*1*
2-Fluorobiphenyl	*78*		*15 - 122*	*10/24/16 15:51*	*10/26/16 14:34*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: T12-ROX-101716
Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		19 - 130	10/24/16 15:51	10/26/16 14:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 21:46	1
Benzenethiol	ND	U5	9.8	1.7	ug/L		10/24/16 15:51	10/26/16 21:46	1
Benzoic acid	ND		29	7.2	ug/L		10/24/16 15:51	10/26/16 21:46	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 21:46	1
Bis(2-chloroethoxy)methane	ND		9.8	0.68	ug/L		10/24/16 15:51	10/26/16 21:46	1
Bis(2-chloroethyl)ether	ND		9.8	0.73	ug/L		10/24/16 15:51	10/26/16 21:46	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/24/16 15:51	10/26/16 21:46	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/24/16 15:51	10/26/16 21:46	1
Butyl benzyl phthalate	ND		9.8	0.68	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 21:46	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 21:46	1
2-Chlorophenol	ND		9.8	2.2	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 21:46	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/24/16 15:51	10/26/16 21:46	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 21:46	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/24/16 15:51	10/26/16 21:46	1
Diethyl phthalate	ND		9.8	0.69	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4-Dimethylphenol	**20**		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 21:46	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/24/16 15:51	10/26/16 21:46	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/24/16 15:51	10/26/16 21:46	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 21:46	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/24/16 15:51	10/26/16 21:46	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 21:46	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 21:46	1
Hexachlorobenzene	ND		9.8	0.25	ug/L		10/24/16 15:51	10/26/16 21:46	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/24/16 15:51	10/26/16 21:46	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/24/16 15:51	10/26/16 21:46	1
Indene	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 21:46	1
Isophorone	ND		9.8	0.56	ug/L		10/24/16 15:51	10/26/16 21:46	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 21:46	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 21:46	1
2-Nitroaniline	ND		9.8	2.2	ug/L		10/24/16 15:51	10/26/16 21:46	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/24/16 15:51	10/26/16 21:46	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/24/16 15:51	10/26/16 21:46	1
2-Nitrophenol	ND		9.8	0.64	ug/L		10/24/16 15:51	10/26/16 21:46	1
4-Nitrophenol	ND		9.8	2.1	ug/L		10/24/16 15:51	10/26/16 21:46	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 21:46	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: T12-ROX-101716
Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/24/16 15:51	10/26/16 21:46	1
N-Nitrosodiphenylamine	ND	*	9.8	0.46	ug/L		10/24/16 15:51	10/26/16 21:46	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 21:46	1
Phenol	73		20	5.1	ug/L		10/24/16 15:51	10/30/16 17:41	2
Pyridine	ND		9.8	3.1	ug/L		10/24/16 15:51	10/26/16 21:46	1
Quinoline	ND		9.8	5.9	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/24/16 15:51	10/26/16 21:46	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*34 - 120*	*10/24/16 15:51*	*10/26/16 21:46*	*1*
2-Fluorophenol	*50*		*10 - 120*	*10/24/16 15:51*	*10/26/16 21:46*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/24/16 15:51*	*10/26/16 21:46*	*1*
Phenol-d5	*66*		*10 - 120*	*10/24/16 15:51*	*10/26/16 21:46*	*1*
Terphenyl-d14	*72*		*53 - 125*	*10/24/16 15:51*	*10/26/16 21:46*	*1*
2,4,6-Tribromophenol	*121*		*15 - 135*	*10/24/16 15:51*	*10/26/16 21:46*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 09:45	10/24/16 22:39	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/24/16 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*132*		*51 - 149*	*10/24/16 09:45*	*10/24/16 22:39*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93D-ROX-101716
Date Collected: 10/17/16 15:30
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 20:41	1
Acrolein	ND		20	10	ug/L			10/28/16 20:41	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 20:41	1
Benzene	23		1.0	0.38	ug/L			10/28/16 20:41	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 20:41	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 20:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 20:41	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 20:41	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 20:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 20:41	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 20:41	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 20:41	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 20:41	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 20:41	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 20:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 20:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 20:41	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 20:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 20:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 20:41	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 20:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 20:41	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 20:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 20:41	1
Methyl tert-butyl ether	2.6		1.0	0.74	ug/L			10/28/16 20:41	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/16 20:41	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 20:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 20:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 20:41	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 20:41	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/16 20:41	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 20:41	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 20:41	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93D-ROX-101716
Date Collected: 10/17/16 15:30
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 20:41	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 20:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 20:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 20:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 20:41	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 20:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 20:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 20:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 20:41	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 20:41	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 20:41	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 20:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 20:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 20:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 20:41	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 20:41	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 20:41	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/16 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/28/16 20:41*	*1*
Dibromofluoromethane	*113*		*81 - 121*		*10/28/16 20:41*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/16 20:41*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
Acenaphthylene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
Anthracene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Chrysene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Fluoranthene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
Fluorene	ND		0.19	0.020	ug/L		10/24/16 15:51	10/26/16 15:00	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		10/24/16 15:51	10/26/16 15:00	1
Phenanthrene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
Pyrene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		10/24/16 15:51	10/26/16 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*62*		*33 - 138*	*10/24/16 15:51*	*10/26/16 15:00*	*1*
2-Fluorobiphenyl	*66*		*15 - 122*	*10/24/16 15:51*	*10/26/16 15:00*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93D-ROX-101716
Date Collected: 10/17/16 15:30
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		19 - 130	10/24/16 15:51	10/26/16 15:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	3.6	ug/L		10/24/16 15:51	10/26/16 22:20	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		10/24/16 15:51	10/26/16 22:20	1
Benzoic acid	ND		29	7.0	ug/L		10/24/16 15:51	10/26/16 22:20	1
Benzyl alcohol	ND		9.5	1.9	ug/L		10/24/16 15:51	10/26/16 22:20	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		10/24/16 15:51	10/26/16 22:20	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		10/24/16 15:51	10/26/16 22:20	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		10/24/16 15:51	10/26/16 22:20	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.2	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		10/24/16 15:51	10/26/16 22:20	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Chloroaniline	ND		9.5	3.2	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		10/24/16 15:51	10/26/16 22:20	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		10/24/16 15:51	10/26/16 22:20	1
2-Chlorophenol	ND		9.5	2.1	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		10/24/16 15:51	10/26/16 22:20	1
Dibenz[a,h]acridine	ND	* UJ	9.5	2.9	ug/L		10/24/16 15:51	10/26/16 22:20	1
Dibenzofuran	ND		9.5	0.50	ug/L		10/24/16 15:51	10/26/16 22:20	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		10/24/16 15:51	10/26/16 22:20	1
Diethyl phthalate	ND		9.5	0.67	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		10/24/16 15:51	10/26/16 22:20	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		10/24/16 15:51	10/26/16 22:20	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		10/24/16 15:51	10/26/16 22:20	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		10/24/16 15:51	10/26/16 22:20	1
Di-n-octyl phthalate	ND	UJ	9.5	0.42	ug/L		10/24/16 15:51	10/26/16 22:20	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/24/16 15:51	10/26/16 22:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		10/24/16 15:51	10/26/16 22:20	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		10/24/16 15:51	10/26/16 22:20	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		10/24/16 15:51	10/26/16 22:20	1
Hexachloroethane	ND		9.5	4.0	ug/L		10/24/16 15:51	10/26/16 22:20	1
Indene	ND		9.5	0.95	ug/L		10/24/16 15:51	10/26/16 22:20	1
Isophorone	ND		9.5	0.54	ug/L		10/24/16 15:51	10/26/16 22:20	1
2-Methylphenol	ND		9.5	1.7	ug/L		10/24/16 15:51	10/26/16 22:20	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		10/24/16 15:51	10/26/16 22:20	1
2-Nitroaniline	ND		9.5	2.1	ug/L		10/24/16 15:51	10/26/16 22:20	1
3-Nitroaniline	ND		9.5	1.7	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Nitroaniline	ND		9.5	2.4	ug/L		10/24/16 15:51	10/26/16 22:20	1
Nitrobenzene	ND		9.5	0.52	ug/L		10/24/16 15:51	10/26/16 22:20	1
2-Nitrophenol	ND		9.5	0.62	ug/L		10/24/16 15:51	10/26/16 22:20	1
4-Nitrophenol	ND		9.5	2.0	ug/L		10/24/16 15:51	10/26/16 22:20	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		10/24/16 15:51	10/26/16 22:20	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93D-ROX-101716
Date Collected: 10/17/16 15:30
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128842-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.5	3.1	ug/L		10/24/16 15:51	10/26/16 22:20	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		10/24/16 15:51	10/26/16 22:20	1
Pentachlorophenol	ND		19	1.7	ug/L		10/24/16 15:51	10/26/16 22:20	1
Phenol	ND		9.5	2.5	ug/L		10/24/16 15:51	10/26/16 22:20	1
Pyridine	ND		9.5	3.0	ug/L		10/24/16 15:51	10/26/16 22:20	1
Quinoline	ND		9.5	5.7	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		10/24/16 15:51	10/26/16 22:20	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		10/24/16 15:51	10/26/16 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/24/16 15:51*	*10/26/16 22:20*	*1*
2-Fluorophenol	*41*		*10 - 120*	*10/24/16 15:51*	*10/26/16 22:20*	*1*
Nitrobenzene-d5	*69*		*27 - 120*	*10/24/16 15:51*	*10/26/16 22:20*	*1*
Phenol-d5	*43*		*10 - 120*	*10/24/16 15:51*	*10/26/16 22:20*	*1*
Terphenyl-d14	*64*		*53 - 125*	*10/24/16 15:51*	*10/26/16 22:20*	*1*
2,4,6-Tribromophenol	*79*		*15 - 135*	*10/24/16 15:51*	*10/26/16 22:20*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 09:45	10/24/16 23:08	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/24/16 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*133*		*51 - 149*	*10/24/16 09:45*	*10/24/16 23:08*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128842-1	TB-ROX-101716-8260-SS	100	112	95
400-128842-3	P56-ROX-101716-EB	105	115	94
400-128842-4	P56-ROX-101716	98	99	93
400-128842-5	T12-ROX-101716	97	103	95
400-128842-6	P93D-ROX-101716	103	113	95
400-129029-A-1 MS	Matrix Spike	99	101	97
400-129029-A-1 MSD	Matrix Spike Duplicate	104	101	96
400-129033-A-1 MS	Matrix Spike	99	98	97
400-129033-A-1 MSD	Matrix Spike Duplicate	100	102	97
LCS 400-328647/1002	Lab Control Sample	100	102	98
LCS 400-328720/1002	Lab Control Sample	101	100	98
MB 400-328647/5	Method Blank	101	112	94
MB 400-328720/5	Method Blank	102	111	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128842-3	P56-ROX-101716-EB	88	50	76	62	92 *	94
400-128842-4	P56-ROX-101716	72	42	65	61	40 X	80
400-128842-5	T12-ROX-101716	92	50	75	66	72	121
400-128842-6	P93D-ROX-101716	79	41	69	43	64	79
LCS 400-328073/2-A	Lab Control Sample	81	65	84	75	85	92
LCS 400-328073/4-A	Lab Control Sample	100	66	80	72	81	82
LCSD 400-328073/3-A	Lab Control Sample Dup	81	67	74	72	76	85
LCSD 400-328073/5-A	Lab Control Sample Dup	94	71	82	74	86	86
MB 400-328073/1-A	Method Blank	80	56	73	65	66	71

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128842-3	P56-ROX-101716-EB	113	83	96

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128842-4	P56-ROX-101716	45	61	79
400-128842-5	T12-ROX-101716	84	78	90
400-128842-6	P93D-ROX-101716	62	66	76
LCS 400-328073/2-A	Lab Control Sample	112	95	89
LCSD 400-328073/3-A	Lab Control Sample Dup	99	84	83

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-128842-2	TB-ROX-1001716-8011-SS	127
400-128842-3	P56-ROX-101716-EB	120
400-128842-4	P56-ROX-101716	68 p
400-128842-5	T12-ROX-101716	132
400-128842-6	P93D-ROX-101716	133
LCS 400-327995/2-A	Lab Control Sample	118
LCSD 400-327995/3-A	Lab Control Sample Dup	128
MB 400-327995/1-A	Method Blank	141

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260-SS

Lab Sample ID: 400-128842-1

Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328647	10/28/16 05:36	S1S	TAL PEN

Client Sample ID: TB-ROX-1001716-8011-SS

Lab Sample ID: 400-128842-2

Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 21:09	KH1	TAL PEN

Client Sample ID: P56-ROX-101716-EB

Lab Sample ID: 400-128842-3

Date Collected: 10/17/16 11:00
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 19:49	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 20:39	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 13:43	VC1	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 21:39	KH1	TAL PEN

Client Sample ID: P56-ROX-101716

Lab Sample ID: 400-128842-4

Date Collected: 10/17/16 11:40
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 20:15	BSW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 21:13	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 14:09	VC1	TAL PEN
Total/NA	Prep	8011			34 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 22:09	KH1	TAL PEN

Client Sample ID: T12-ROX-101716

Lab Sample ID: 400-128842-5

Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	328720	10/28/16 21:08	BSW	TAL PEN

Client Sample ID: T12-ROX-101716

Lab Sample ID: 400-128842-5

Date Collected: 10/17/16 14:10
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1020 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		2			328907	10/30/16 17:41	MAM	TAL PEN
Total/NA	Prep	3520C			1020 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 21:46	DHW	TAL PEN
Total/NA	Prep	3520C			1020 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 14:34	VC1	TAL PEN
Total/NA	Prep	8011			34.2 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 22:39	KH1	TAL PEN

Client Sample ID: P93D-ROX-101716

Lab Sample ID: 400-128842-6

Date Collected: 10/17/16 15:30
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 20:41	BSW	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 22:20	DHW	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 15:00	VC1	TAL PEN
Total/NA	Prep	8011			34.4 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 23:08	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327995/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 19:41	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328073/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 16:43	DHW	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328647/5

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328647	10/27/16 20:10	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-328720/5

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 11:20	BSW	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-327995/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:10	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328073/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 17:17	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 12:52	VC1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328073/4-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 18:24	DHW	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-328647/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328647	10/27/16 18:25	S1S	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328720/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 09:51	BSW	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:40	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 17:51	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 13:17	VC1	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-328073/5-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 18:58	DHW	TAL PEN

Client Sample ID: Matrix Spike
Date Collected: 10/17/16 11:10
Date Received: 10/21/16 09:24

Lab Sample ID: 400-129029-A-1 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 14:12	BSW	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 10/17/16 11:10
Date Received: 10/21/16 09:24

Lab Sample ID: 400-129029-A-1 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328720	10/28/16 14:38	BSW	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: Matrix Spike

Date Collected: 10/18/16 16:30
Date Received: 10/21/16 09:24

Lab Sample ID: 400-129033-A-1 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328647	10/27/16 21:28	S1S	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Date Collected: 10/18/16 16:30
Date Received: 10/21/16 09:24

Lab Sample ID: 400-129033-A-1 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328647	10/27/16 21:53	S1S	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-1	TB-ROX-101716-8260-SS	Total/NA	Water	8260B	
MB 400-328647/5	Method Blank	Total/NA	Water	8260B	
LCS 400-328647/1002	Lab Control Sample	Total/NA	Water	8260B	
400-129033-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-129033-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 328720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	8260B	
400-128842-4	P56-ROX-101716	Total/NA	Water	8260B	
400-128842-5	T12-ROX-101716	Total/NA	Water	8260B	
400-128842-6	P93D-ROX-101716	Total/NA	Water	8260B	
MB 400-328720/5	Method Blank	Total/NA	Water	8260B	
LCS 400-328720/1002	Lab Control Sample	Total/NA	Water	8260B	
400-129029-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-129029-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 328073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	3520C	
400-128842-4	P56-ROX-101716	Total/NA	Water	3520C	
400-128842-5	T12-ROX-101716	Total/NA	Water	3520C	
400-128842-6	P93D-ROX-101716	Total/NA	Water	3520C	
MB 400-328073/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-328073/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-328073/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 328286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	8270D LL	328073
400-128842-4	P56-ROX-101716	Total/NA	Water	8270D LL	328073
400-128842-5	T12-ROX-101716	Total/NA	Water	8270D LL	328073
400-128842-6	P93D-ROX-101716	Total/NA	Water	8270D LL	328073
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	8270D LL	328073
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	328073

Analysis Batch: 328374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	8270D	328073
400-128842-4	P56-ROX-101716	Total/NA	Water	8270D	328073
400-128842-5	T12-ROX-101716	Total/NA	Water	8270D	328073
400-128842-6	P93D-ROX-101716	Total/NA	Water	8270D	328073
MB 400-328073/1-A	Method Blank	Total/NA	Water	8270D	328073
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	8270D	328073
LCS 400-328073/4-A	Lab Control Sample	Total/NA	Water	8270D	328073
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328073

GC/MS Semi VOA (Continued)

Analysis Batch: 328374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-328073/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	328073

Analysis Batch: 328907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-5	T12-ROX-101716	Total/NA	Water	8270D	328073

GC Semi VOA

Prep Batch: 327995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-2	TB-ROX-1001716-8011-SS	Total/NA	Water	8011	
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	8011	
400-128842-4	P56-ROX-101716	Total/NA	Water	8011	
400-128842-5	T12-ROX-101716	Total/NA	Water	8011	
400-128842-6	P93D-ROX-101716	Total/NA	Water	8011	
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 328117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128842-2	TB-ROX-1001716-8011-SS	Total/NA	Water	8011	327995
400-128842-3	P56-ROX-101716-EB	Total/NA	Water	8011	327995
400-128842-4	P56-ROX-101716	Total/NA	Water	8011	327995
400-128842-5	T12-ROX-101716	Total/NA	Water	8011	327995
400-128842-6	P93D-ROX-101716	Total/NA	Water	8011	327995
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	327995
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	327995
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327995

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328647/5
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/27/16 20:10	1
Acrolein	ND		20	10	ug/L			10/27/16 20:10	1
Acrylonitrile	ND		10	2.8	ug/L			10/27/16 20:10	1
Benzene	ND		1.0	0.38	ug/L			10/27/16 20:10	1
Bromobenzene	ND		1.0	0.54	ug/L			10/27/16 20:10	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/27/16 20:10	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Bromoform	ND		5.0	0.71	ug/L			10/27/16 20:10	1
Bromomethane	ND		1.0	0.98	ug/L			10/27/16 20:10	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/27/16 20:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Chloroethane	ND		1.0	0.76	ug/L			10/27/16 20:10	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/27/16 20:10	1
Chloroform	ND		1.0	0.60	ug/L			10/27/16 20:10	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/27/16 20:10	1
Chloromethane	ND		1.0	0.83	ug/L			10/27/16 20:10	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/16 20:10	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/27/16 20:10	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/27/16 20:10	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/27/16 20:10	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/27/16 20:10	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/27/16 20:10	1
2-Hexanone	ND		25	3.1	ug/L			10/27/16 20:10	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/27/16 20:10	1
Methylene bromide	ND		5.0	0.59	ug/L			10/27/16 20:10	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/27/16 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/27/16 20:10	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/27/16 20:10	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/27/16 20:10	1
Naphthalene	ND		1.0	1.0	ug/L			10/27/16 20:10	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/27/16 20:10	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/16 20:10	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/27/16 20:10	1
o-Xylene	ND		5.0	0.60	ug/L			10/27/16 20:10	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/27/16 20:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328647/5
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/27/16 20:10	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/27/16 20:10	1
Styrene	ND		1.0	1.0	ug/L			10/27/16 20:10	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/27/16 20:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/27/16 20:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/27/16 20:10	1
Toluene	ND		1.0	0.70	ug/L			10/27/16 20:10	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/16 20:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/27/16 20:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/27/16 20:10	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/27/16 20:10	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/27/16 20:10	1
Trichloroethene	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/27/16 20:10	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/27/16 20:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/27/16 20:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/27/16 20:10	1
Vinyl acetate	ND		25	2.0	ug/L			10/27/16 20:10	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/27/16 20:10	1
Xylenes, Total	ND		10	1.6	ug/L			10/27/16 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/27/16 20:10*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/27/16 20:10*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/27/16 20:10*	*1*

Lab Sample ID: LCS 400-328647/1002
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	208		ug/L		104	43 - 160
Acrolein	500	493		ug/L		99	38 - 160
Acrylonitrile	500	488		ug/L		98	64 - 142
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromobenzene	50.0	46.7		ug/L		93	70 - 132
Bromochloromethane	50.0	51.8		ug/L		104	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	67 - 133
Bromoform	50.0	48.3		ug/L		97	57 - 140
Bromomethane	50.0	53.2		ug/L		106	10 - 160
2-Butanone (MEK)	200	206		ug/L		103	61 - 145
Carbon disulfide	50.0	48.9		ug/L		98	61 - 137
Carbon tetrachloride	50.0	50.4		ug/L		101	61 - 137
Chlorobenzene	50.0	50.2		ug/L		100	70 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	67 - 135
Chloroethane	50.0	49.2		ug/L		98	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328647/1002
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	46.5		ug/L		93	10 - 160
Chloroform	50.0	50.7		ug/L		101	69 - 130
1-Chlorohexane	50.0	48.3		ug/L		97	69 - 130
Chloromethane	50.0	45.9		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	68 - 130
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	69 - 132
1,2-Dichlorobenzene	50.0	44.4		ug/L		89	67 - 130
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	47.0		ug/L		94	41 - 146
1,1-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	48.4		ug/L		97	63 - 134
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3-Dichloropropane	50.0	50.5		ug/L		101	70 - 130
2,2-Dichloropropane	50.0	46.1		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130
Ethyl methacrylate	50.0	47.5		ug/L		95	68 - 130
Hexachlorobutadiene	50.0	42.2		ug/L		84	53 - 140
2-Hexanone	200	198		ug/L		99	65 - 137
Isopropylbenzene	50.0	46.0		ug/L		92	70 - 130
Methylene bromide	50.0	49.9		ug/L		100	70 - 130
Methylene Chloride	50.0	50.3		ug/L		101	66 - 135
4-Methyl-2-pentanone (MIBK)	200	206		ug/L		103	69 - 138
Methyl tert-butyl ether	50.0	47.2		ug/L		94	66 - 130
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	70 - 130
Naphthalene	50.0	44.8		ug/L		90	47 - 149
n-Butylbenzene	50.0	44.3		ug/L		89	67 - 130
N-Propylbenzene	50.0	47.6		ug/L		95	70 - 130
o-Chlorotoluene	50.0	49.9		ug/L		100	70 - 130
o-Xylene	50.0	47.5		ug/L		95	70 - 130
p-Chlorotoluene	50.0	48.3		ug/L		97	70 - 130
p-Isopropyltoluene	50.0	43.2		ug/L		86	65 - 130
sec-Butylbenzene	50.0	43.8		ug/L		88	66 - 130
Styrene	50.0	48.9		ug/L		98	70 - 130
tert-Butylbenzene	50.0	43.8		ug/L		88	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	67 - 131
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	70 - 131
Tetrachloroethene	50.0	48.3		ug/L		97	65 - 130
Toluene	50.0	49.7		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	41.5		ug/L		83	60 - 138
1,2,4-Trichlorobenzene	50.0	42.6		ug/L		85	60 - 140
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	68 - 130
1,1,2-Trichloroethane	50.0	54.7		ug/L		109	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328647/1002
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	48.6		ug/L		97	65 - 138
1,2,3-Trichloropropane	50.0	44.2		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	50.0	44.9		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	50.0	44.3		ug/L		89	69 - 130
Vinyl acetate	100	99.0		ug/L		99	26 - 160
Vinyl chloride	50.0	46.7		ug/L		93	59 - 136
Xylenes, Total	100	96.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 400-129033-A-1 MS
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	148		ug/L		74	43 - 160
Acrolein	ND		500	498		ug/L		100	38 - 160
Acrylonitrile	ND		500	455		ug/L		91	62 - 149
Benzene	ND		50.0	47.9		ug/L		96	56 - 142
Bromobenzene	ND		50.0	43.8		ug/L		88	59 - 136
Bromochloromethane	ND		50.0	47.6		ug/L		95	64 - 140
Bromodichloromethane	ND		50.0	49.8		ug/L		100	59 - 143
Bromoform	ND		50.0	43.7		ug/L		87	50 - 140
Bromomethane	ND		50.0	54.0		ug/L		108	10 - 160
2-Butanone (MEK)	ND		200	184		ug/L		92	55 - 150
Carbon disulfide	ND		50.0	44.2		ug/L		88	48 - 152
Carbon tetrachloride	ND		50.0	46.2		ug/L		92	55 - 145
Chlorobenzene	ND		50.0	46.6		ug/L		93	64 - 130
Dibromochloromethane	ND		50.0	49.7		ug/L		99	56 - 143
Chloroethane	ND		50.0	47.8		ug/L		96	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	47.5		ug/L		95	60 - 141
1-Chlorohexane	ND		50.0	46.0		ug/L		92	56 - 136
Chloromethane	ND		50.0	41.9		ug/L		84	49 - 148
cis-1,2-Dichloroethene	ND		50.0	45.1		ug/L		90	59 - 143
cis-1,3-Dichloropropene	ND		50.0	48.3		ug/L		97	57 - 140
1,2-Dichlorobenzene	ND		50.0	42.5		ug/L		85	52 - 137
1,3-Dichlorobenzene	ND		50.0	43.9		ug/L		88	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.6		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	36.4		ug/L		73	16 - 160
1,1-Dichloroethane	ND		50.0	46.2		ug/L		92	61 - 144
1,2-Dichloroethane	ND		50.0	47.3		ug/L		95	60 - 141
1,1-Dichloroethene	ND		50.0	45.3		ug/L		91	54 - 147
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	49.0		ug/L		98	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129033-A-1 MS
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	42.3		ug/L		85	42 - 144
1,1-Dichloropropene	ND		50.0	48.5		ug/L		97	65 - 136
Ethylbenzene	ND		50.0	45.4		ug/L		91	58 - 131
Ethyl methacrylate	ND		50.0	47.1		ug/L		94	64 - 130
Hexachlorobutadiene	ND		50.0	42.8		ug/L		86	31 - 149
2-Hexanone	ND		200	177		ug/L		89	65 - 140
Isopropylbenzene	ND		50.0	44.2		ug/L		88	56 - 133
Methylene bromide	ND		50.0	47.4		ug/L		95	63 - 138
Methylene Chloride	ND		50.0	46.1		ug/L		92	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	192		ug/L		96	63 - 146
Methyl tert-butyl ether	ND		50.0	45.0		ug/L		90	59 - 137
m-Xylene & p-Xylene	ND		50.0	45.3		ug/L		91	57 - 130
Naphthalene	ND		50.0	44.9		ug/L		90	25 - 160
n-Butylbenzene	ND		50.0	42.8		ug/L		86	41 - 142
N-Propylbenzene	ND		50.0	45.3		ug/L		91	51 - 138
o-Chlorotoluene	ND		50.0	42.0		ug/L		84	53 - 134
o-Xylene	ND		50.0	45.6		ug/L		91	61 - 130
p-Chlorotoluene	ND		50.0	45.8		ug/L		92	54 - 133
p-Isopropyltoluene	ND		50.0	41.3		ug/L		83	48 - 139
sec-Butylbenzene	ND		50.0	42.5		ug/L		85	50 - 138
Styrene	ND		50.0	42.7		ug/L		85	58 - 131
tert-Butylbenzene	ND		50.0	42.9		ug/L		86	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	45.4		ug/L		91	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135
Tetrachloroethene	ND		50.0	41.3		ug/L		83	52 - 133
Toluene	ND		50.0	47.1		ug/L		94	65 - 130
trans-1,2-Dichloroethene	ND		50.0	48.3		ug/L		97	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.6		ug/L		95	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	40.1		ug/L		80	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	38.9		ug/L		78	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142
1,1,2-Trichloroethane	ND		50.0	51.6		ug/L		103	66 - 131
Trichloroethene	ND		50.0	46.0		ug/L		92	64 - 136
Trichlorofluoromethane	ND		50.0	46.8		ug/L		94	54 - 156
1,2,3-Trichloropropane	ND		50.0	45.8		ug/L		92	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	43.6		ug/L		87	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	42.5		ug/L		85	52 - 135
Vinyl acetate	ND		100	97.7		ug/L		98	26 - 160
Vinyl chloride	ND		50.0	44.2		ug/L		88	46 - 152
Xylenes, Total	ND		100	90.9		ug/L		91	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129033-A-1 MSD
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	158		ug/L		79	43 - 160	6	30
Acrolein	ND		500	513		ug/L		103	38 - 160	3	31
Acrylonitrile	ND		500	501		ug/L		100	62 - 149	10	30
Benzene	ND		50.0	50.3		ug/L		101	56 - 142	5	30
Bromobenzene	ND		50.0	49.4		ug/L		99	59 - 136	12	30
Bromochloromethane	ND		50.0	50.4		ug/L		101	64 - 140	6	30
Bromodichloromethane	ND		50.0	51.4		ug/L		103	59 - 143	3	30
Bromoform	ND		50.0	50.2		ug/L		100	50 - 140	14	30
Bromomethane	ND		50.0	55.0		ug/L		110	10 - 160	2	50
2-Butanone (MEK)	ND		200	182		ug/L		91	55 - 150	1	30
Carbon disulfide	ND		50.0	47.8		ug/L		96	48 - 152	8	30
Carbon tetrachloride	ND		50.0	48.8		ug/L		98	55 - 145	6	30
Chlorobenzene	ND		50.0	48.4		ug/L		97	64 - 130	4	30
Dibromochloromethane	ND		50.0	49.0		ug/L		98	56 - 143	1	30
Chloroethane	ND		50.0	50.7		ug/L		101	50 - 151	6	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	49.9		ug/L		100	60 - 141	5	30
1-Chlorohexane	ND		50.0	46.7		ug/L		93	56 - 136	1	30
Chloromethane	ND		50.0	43.7		ug/L		87	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	47.6		ug/L		95	59 - 143	6	30
cis-1,3-Dichloropropene	ND		50.0	50.6		ug/L		101	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	44.5		ug/L		89	52 - 137	5	30
1,3-Dichlorobenzene	ND		50.0	46.5		ug/L		93	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	48.3		ug/L		97	53 - 135	6	30
Dichlorodifluoromethane	ND		50.0	38.3		ug/L		77	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144	7	30
1,2-Dichloroethane	ND		50.0	48.5		ug/L		97	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	47.7		ug/L		95	54 - 147	5	30
1,2-Dichloropropane	ND		50.0	49.5		ug/L		99	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	51.1		ug/L		102	66 - 133	4	30
2,2-Dichloropropane	ND		50.0	44.9		ug/L		90	42 - 144	6	31
1,1-Dichloropropene	ND		50.0	50.1		ug/L		100	65 - 136	3	30
Ethylbenzene	ND		50.0	47.1		ug/L		94	58 - 131	4	30
Ethyl methacrylate	ND		50.0	47.9		ug/L		96	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	46.3		ug/L		93	31 - 149	8	36
2-Hexanone	ND		200	183		ug/L		92	65 - 140	3	30
Isopropylbenzene	ND		50.0	44.5		ug/L		89	56 - 133	1	30
Methylene bromide	ND		50.0	50.5		ug/L		101	63 - 138	6	30
Methylene Chloride	ND		50.0	48.6		ug/L		97	60 - 146	5	32
4-Methyl-2-pentanone (MIBK)	ND		200	202		ug/L		101	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	47.9		ug/L		96	59 - 137	6	30
m-Xylene & p-Xylene	ND		50.0	47.0		ug/L		94	57 - 130	4	30
Naphthalene	ND		50.0	48.1		ug/L		96	25 - 160	7	30
n-Butylbenzene	ND		50.0	45.1		ug/L		90	41 - 142	5	31
N-Propylbenzene	ND		50.0	48.6		ug/L		97	51 - 138	7	30
o-Chlorotoluene	ND		50.0	44.9		ug/L		90	53 - 134	7	30
o-Xylene	ND		50.0	46.0		ug/L		92	61 - 130	1	30
p-Chlorotoluene	ND		50.0	47.7		ug/L		95	54 - 133	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129033-A-1 MSD
Matrix: Water
Analysis Batch: 328647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	45.5		ug/L		91	48 - 139	10	30
sec-Butylbenzene	ND		50.0	45.1		ug/L		90	50 - 138	6	30
Styrene	ND		50.0	43.8		ug/L		88	58 - 131	3	30
tert-Butylbenzene	ND		50.0	46.3		ug/L		93	54 - 146	7	30
1,1,1,2-Tetrachloroethane	ND		50.0	45.8		ug/L		92	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.2		ug/L		98	66 - 135	3	30
Tetrachloroethene	ND		50.0	45.5		ug/L		91	52 - 133	10	30
Toluene	ND		50.0	48.3		ug/L		97	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	52.4		ug/L		105	61 - 143	8	30
trans-1,3-Dichloropropene	ND		50.0	50.1		ug/L		100	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	43.0		ug/L		86	43 - 145	7	30
1,2,4-Trichlorobenzene	ND		50.0	42.0		ug/L		84	39 - 148	8	30
1,1,1-Trichloroethane	ND		50.0	48.4		ug/L		97	57 - 142	5	30
1,1,2-Trichloroethane	ND		50.0	54.1		ug/L		108	66 - 131	5	30
Trichloroethene	ND		50.0	50.6		ug/L		101	64 - 136	10	30
Trichlorofluoromethane	ND		50.0	50.4		ug/L		101	54 - 156	7	30
1,2,3-Trichloropropane	ND		50.0	50.6		ug/L		101	65 - 133	10	30
1,2,4-Trimethylbenzene	ND		50.0	44.9		ug/L		90	50 - 139	3	30
1,3,5-Trimethylbenzene	ND		50.0	45.2		ug/L		90	52 - 135	6	30
Vinyl acetate	ND		100	102		ug/L		102	26 - 160	4	33
Vinyl chloride	ND		50.0	48.2		ug/L		96	46 - 152	9	30
Xylenes, Total	ND		100	93.0		ug/L		93	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 400-328720/5
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 11:20	1
Acrolein	ND		20	10	ug/L			10/28/16 11:20	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 11:20	1
Benzene	ND		1.0	0.38	ug/L			10/28/16 11:20	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 11:20	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 11:20	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 11:20	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 11:20	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 11:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 11:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328720/5
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 11:20	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 11:20	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 11:20	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 11:20	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 11:20	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 11:20	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 11:20	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 11:20	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 11:20	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 11:20	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 11:20	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 11:20	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 11:20	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 11:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 11:20	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 11:20	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/16 11:20	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 11:20	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 11:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 11:20	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 11:20	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/16 11:20	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 11:20	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 11:20	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 11:20	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 11:20	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 11:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 11:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 11:20	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 11:20	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 11:20	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 11:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 11:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 11:20	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 11:20	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 11:20	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 11:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328720/5
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 11:20	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 11:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 11:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 11:20	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 11:20	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 11:20	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/16 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/28/16 11:20*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/28/16 11:20*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/28/16 11:20*	*1*

Lab Sample ID: LCS 400-328720/1002
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	186		ug/L		93	43 - 160
Acrolein	500	482		ug/L		96	38 - 160
Acrylonitrile	500	441		ug/L		88	64 - 142
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromobenzene	50.0	45.1		ug/L		90	70 - 132
Bromochloromethane	50.0	47.1		ug/L		94	70 - 130
Bromodichloromethane	50.0	47.3		ug/L		95	67 - 133
Bromoform	50.0	44.8		ug/L		90	57 - 140
Bromomethane	50.0	53.6		ug/L		107	10 - 160
2-Butanone (MEK)	200	176		ug/L		88	61 - 145
Carbon disulfide	50.0	41.2		ug/L		82	61 - 137
Carbon tetrachloride	50.0	46.9		ug/L		94	61 - 137
Chlorobenzene	50.0	46.6		ug/L		93	70 - 130
Dibromochloromethane	50.0	48.0		ug/L		96	67 - 135
Chloroethane	50.0	48.5		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	45.8		ug/L		92	10 - 160
Chloroform	50.0	46.2		ug/L		92	69 - 130
1-Chlorohexane	50.0	43.8		ug/L		88	69 - 130
Chloromethane	50.0	45.0		ug/L		90	58 - 137
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	68 - 130
cis-1,3-Dichloropropene	50.0	46.0		ug/L		92	69 - 132
1,2-Dichlorobenzene	50.0	41.8		ug/L		84	67 - 130
1,3-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 130
Dichlorodifluoromethane	50.0	45.3		ug/L		91	41 - 146
1,1-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,2-Dichloroethane	50.0	45.2		ug/L		90	69 - 130
1,1-Dichloroethene	50.0	45.2		ug/L		90	63 - 134
1,2-Dichloropropane	50.0	46.1		ug/L		92	70 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328720/1002
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	42.0		ug/L		84	52 - 135
1,1-Dichloropropene	50.0	46.6		ug/L		93	70 - 130
Ethylbenzene	50.0	44.6		ug/L		89	70 - 130
Ethyl methacrylate	50.0	43.1		ug/L		86	68 - 130
Hexachlorobutadiene	50.0	40.9		ug/L		82	53 - 140
2-Hexanone	200	178		ug/L		89	65 - 137
Isopropylbenzene	50.0	41.5		ug/L		83	70 - 130
Methylene bromide	50.0	45.6		ug/L		91	70 - 130
Methylene Chloride	50.0	45.1		ug/L		90	66 - 135
4-Methyl-2-pentanone (MIBK)	200	184		ug/L		92	69 - 138
Methyl tert-butyl ether	50.0	43.5		ug/L		87	66 - 130
m-Xylene & p-Xylene	50.0	44.3		ug/L		89	70 - 130
Naphthalene	50.0	40.0		ug/L		80	47 - 149
n-Butylbenzene	50.0	43.2		ug/L		86	67 - 130
N-Propylbenzene	50.0	46.2		ug/L		92	70 - 130
o-Chlorotoluene	50.0	41.8		ug/L		84	70 - 130
o-Xylene	50.0	42.7		ug/L		85	70 - 130
p-Chlorotoluene	50.0	45.5		ug/L		91	70 - 130
p-Isopropyltoluene	50.0	40.6		ug/L		81	65 - 130
sec-Butylbenzene	50.0	41.1		ug/L		82	66 - 130
Styrene	50.0	43.9		ug/L		88	70 - 130
tert-Butylbenzene	50.0	39.4		ug/L		79	64 - 139
1,1,1,2-Tetrachloroethane	50.0	44.3		ug/L		89	67 - 131
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 131
Tetrachloroethene	50.0	43.2		ug/L		86	65 - 130
Toluene	50.0	45.3		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	47.0		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	63 - 130
1,2,3-Trichlorobenzene	50.0	37.9		ug/L		76	60 - 138
1,2,4-Trichlorobenzene	50.0	39.8		ug/L		80	60 - 140
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	70 - 130
Trichloroethene	50.0	45.8		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	47.7		ug/L		95	65 - 138
1,2,3-Trichloropropane	50.0	43.9		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	50.0	43.0		ug/L		86	70 - 130
1,3,5-Trimethylbenzene	50.0	41.3		ug/L		83	69 - 130
Vinyl acetate	100	92.2		ug/L		92	26 - 160
Vinyl chloride	50.0	45.4		ug/L		91	59 - 136
Xylenes, Total	100	87.0		ug/L		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129029-A-1 MS
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	173		ug/L		86	43 - 160
Acrolein	ND		500	530		ug/L		106	38 - 160
Acrylonitrile	ND		500	511		ug/L		102	62 - 149
Benzene	ND		50.0	52.4		ug/L		105	56 - 142
Bromobenzene	ND		50.0	47.1		ug/L		94	59 - 136
Bromochloromethane	ND		50.0	53.5		ug/L		107	64 - 140
Bromodichloromethane	ND		50.0	53.0		ug/L		106	59 - 143
Bromoform	ND		50.0	47.1		ug/L		94	50 - 140
Bromomethane	ND		50.0	57.4		ug/L		115	10 - 160
2-Butanone (MEK)	ND		200	198		ug/L		99	55 - 150
Carbon disulfide	ND		50.0	43.6		ug/L		87	48 - 152
Carbon tetrachloride	ND		50.0	51.7		ug/L		103	55 - 145
Chlorobenzene	ND		50.0	50.4		ug/L		101	64 - 130
Dibromochloromethane	ND		50.0	53.8		ug/L		108	56 - 143
Chloroethane	ND		50.0	52.4		ug/L		105	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	52.2		ug/L		104	60 - 141
1-Chlorohexane	ND		50.0	46.5		ug/L		93	56 - 136
Chloromethane	ND		50.0	45.7		ug/L		91	49 - 148
cis-1,2-Dichloroethene	ND		50.0	50.0		ug/L		100	59 - 143
cis-1,3-Dichloropropene	ND		50.0	51.6		ug/L		103	57 - 140
1,2-Dichlorobenzene	ND		50.0	43.4		ug/L		87	52 - 137
1,3-Dichlorobenzene	ND		50.0	44.7		ug/L		89	54 - 135
1,4-Dichlorobenzene	ND		50.0	46.9		ug/L		94	53 - 135
Dichlorodifluoromethane	ND		50.0	46.1		ug/L		92	16 - 160
1,1-Dichloroethane	ND		50.0	51.3		ug/L		103	61 - 144
1,2-Dichloroethane	ND		50.0	49.7		ug/L		99	60 - 141
1,1-Dichloroethene	ND		50.0	51.7		ug/L		103	54 - 147
1,2-Dichloropropane	ND		50.0	52.1		ug/L		104	66 - 137
1,3-Dichloropropane	ND		50.0	53.7		ug/L		107	66 - 133
2,2-Dichloropropane	ND		50.0	46.3		ug/L		93	42 - 144
1,1-Dichloropropene	ND		50.0	51.5		ug/L		103	65 - 136
Ethylbenzene	ND		50.0	48.8		ug/L		98	58 - 131
Ethyl methacrylate	ND		50.0	48.7		ug/L		97	64 - 130
Hexachlorobutadiene	ND		50.0	41.4		ug/L		83	31 - 149
2-Hexanone	ND		200	187		ug/L		93	65 - 140
Isopropylbenzene	ND		50.0	45.2		ug/L		90	56 - 133
Methylene bromide	ND		50.0	51.4		ug/L		103	63 - 138
Methylene Chloride	ND		50.0	51.5		ug/L		103	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	205		ug/L		102	63 - 146
Methyl tert-butyl ether	ND		50.0	48.3		ug/L		97	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.4		ug/L		97	57 - 130
Naphthalene	ND		50.0	45.5		ug/L		91	25 - 160
n-Butylbenzene	ND		50.0	43.0		ug/L		86	41 - 142
N-Propylbenzene	ND		50.0	47.3		ug/L		95	51 - 138
o-Chlorotoluene	ND		50.0	43.0		ug/L		86	53 - 134
o-Xylene	ND		50.0	46.8		ug/L		94	61 - 130
p-Chlorotoluene	ND		50.0	47.6		ug/L		95	54 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129029-A-1 MS
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	ND		50.0	42.5		ug/L		85	48 - 139
sec-Butylbenzene	ND		50.0	43.2		ug/L		86	50 - 138
Styrene	ND		50.0	48.8		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	41.5		ug/L		83	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	50.8		ug/L		102	66 - 135
Tetrachloroethene	ND		50.0	45.2		ug/L		90	52 - 133
Toluene	ND		50.0	50.5		ug/L		101	65 - 130
trans-1,2-Dichloroethene	ND		50.0	52.0		ug/L		104	61 - 143
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	40.4		ug/L		81	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	39.1		ug/L		78	39 - 148
1,1,1-Trichloroethane	ND		50.0	50.2		ug/L		100	57 - 142
1,1,2-Trichloroethane	ND		50.0	57.1		ug/L		114	66 - 131
Trichloroethene	ND		50.0	51.0		ug/L		102	64 - 136
Trichlorofluoromethane	ND		50.0	51.3		ug/L		103	54 - 156
1,2,3-Trichloropropane	ND		50.0	49.5		ug/L		99	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	43.7		ug/L		87	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	43.0		ug/L		86	52 - 135
Vinyl acetate	ND		100	99.0		ug/L		99	26 - 160
Vinyl chloride	ND		50.0	49.6		ug/L		99	46 - 152
Xylenes, Total	ND		100	95.2		ug/L		95	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-129029-A-1 MSD
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	169		ug/L		85	43 - 160	2	30
Acrolein	ND		500	530		ug/L		106	38 - 160	0	31
Acrylonitrile	ND		500	513		ug/L		103	62 - 149	0	30
Benzene	ND		50.0	53.6		ug/L		107	56 - 142	2	30
Bromobenzene	ND		50.0	49.4		ug/L		99	59 - 136	5	30
Bromochloromethane	ND		50.0	52.4		ug/L		105	64 - 140	2	30
Bromodichloromethane	ND		50.0	52.5		ug/L		105	59 - 143	1	30
Bromoform	ND		50.0	49.0		ug/L		98	50 - 140	4	30
Bromomethane	ND		50.0	60.2		ug/L		120	10 - 160	5	50
2-Butanone (MEK)	ND		200	203		ug/L		102	55 - 150	3	30
Carbon disulfide	ND		50.0	48.8		ug/L		98	48 - 152	11	30
Carbon tetrachloride	ND		50.0	51.9		ug/L		104	55 - 145	0	30
Chlorobenzene	ND		50.0	49.7		ug/L		99	64 - 130	1	30
Dibromochloromethane	ND		50.0	53.1		ug/L		106	56 - 143	1	30
Chloroethane	ND		50.0	52.8		ug/L		106	50 - 151	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129029-A-1 MSD
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	52.2		ug/L		104	60 - 141	0	30
1-Chlorohexane	ND		50.0	48.2		ug/L		96	56 - 136	4	30
Chloromethane	ND		50.0	49.0		ug/L		98	49 - 148	7	31
cis-1,2-Dichloroethene	ND		50.0	50.0		ug/L		100	59 - 143	0	30
cis-1,3-Dichloropropene	ND		50.0	54.4		ug/L		109	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	44.6		ug/L		89	52 - 137	3	30
1,3-Dichlorobenzene	ND		50.0	46.7		ug/L		93	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	46.8		ug/L		94	53 - 135	0	30
Dichlorodifluoromethane	ND		50.0	47.3		ug/L		95	16 - 160	3	31
1,1-Dichloroethane	ND		50.0	52.1		ug/L		104	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	51.4		ug/L		103	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	51.6		ug/L		103	54 - 147	0	30
1,2-Dichloropropane	ND		50.0	50.9		ug/L		102	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	52.5		ug/L		105	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	47.3		ug/L		95	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	52.3		ug/L		105	65 - 136	2	30
Ethylbenzene	ND		50.0	48.4		ug/L		97	58 - 131	1	30
Ethyl methacrylate	ND		50.0	51.4		ug/L		103	64 - 130	5	30
Hexachlorobutadiene	ND		50.0	44.9		ug/L		90	31 - 149	8	36
2-Hexanone	ND		200	192		ug/L		96	65 - 140	3	30
Isopropylbenzene	ND		50.0	45.9		ug/L		92	56 - 133	1	30
Methylene bromide	ND		50.0	51.4		ug/L		103	63 - 138	0	30
Methylene Chloride	ND		50.0	51.7		ug/L		103	60 - 146	0	32
4-Methyl-2-pentanone (MIBK)	ND		200	215		ug/L		108	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	50.7		ug/L		101	59 - 137	5	30
m-Xylene & p-Xylene	ND		50.0	48.1		ug/L		96	57 - 130	1	30
Naphthalene	ND		50.0	48.1		ug/L		96	25 - 160	6	30
n-Butylbenzene	ND		50.0	43.6		ug/L		87	41 - 142	1	31
N-Propylbenzene	ND		50.0	48.1		ug/L		96	51 - 138	2	30
o-Chlorotoluene	ND		50.0	44.0		ug/L		88	53 - 134	2	30
o-Xylene	ND		50.0	47.0		ug/L		94	61 - 130	0	30
p-Chlorotoluene	ND		50.0	47.5		ug/L		95	54 - 133	0	30
p-Isopropyltoluene	ND		50.0	44.0		ug/L		88	48 - 139	3	30
sec-Butylbenzene	ND		50.0	45.0		ug/L		90	50 - 138	4	30
Styrene	ND		50.0	48.3		ug/L		97	58 - 131	1	30
tert-Butylbenzene	ND		50.0	45.5		ug/L		91	54 - 146	9	30
1,1,1,2-Tetrachloroethane	ND		50.0	49.1		ug/L		98	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	51.5		ug/L		103	66 - 135	1	30
Tetrachloroethene	ND		50.0	44.5		ug/L		89	52 - 133	2	30
Toluene	ND		50.0	49.2		ug/L		98	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	53.4		ug/L		107	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	51.5		ug/L		103	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	42.7		ug/L		85	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	39.8		ug/L		80	39 - 148	2	30
1,1,1-Trichloroethane	ND		50.0	51.8		ug/L		104	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	55.2		ug/L		110	66 - 131	3	30
Trichloroethene	ND		50.0	52.5		ug/L		105	64 - 136	3	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129029-A-1 MSD
Matrix: Water
Analysis Batch: 328720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		50.0	52.8		ug/L		106	54 - 156	3	30
1,2,3-Trichloropropane	ND		50.0	50.0		ug/L		100	65 - 133	1	30
1,2,4-Trimethylbenzene	ND		50.0	44.6		ug/L		89	50 - 139	2	30
1,3,5-Trimethylbenzene	ND		50.0	44.1		ug/L		88	52 - 135	3	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 160	4	33
Vinyl chloride	ND		50.0	50.7		ug/L		101	46 - 152	2	30
Xylenes, Total	ND		100	95.0		ug/L		95	59 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328073/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzenethiol	ND		10	1.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzoic acid	ND		30	7.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzyl alcohol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/24/16 15:51	10/26/16 16:43	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/24/16 15:51	10/26/16 16:43	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chloroaniline	ND		10	3.4	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Chlorophenol	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dibenzofuran	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 16:43	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Diethyl phthalate	ND		10	0.70	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/24/16 15:51	10/26/16 16:43	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 16:43	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/24/16 15:51	10/26/16 16:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328073/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachloroethane	ND		10	4.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
Indene	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Isophorone	ND		10	0.57	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Methylphenol	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Nitroaniline	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
3-Nitroaniline	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Nitroaniline	ND		10	2.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
Nitrobenzene	ND		10	0.55	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Nitrophenol	ND		10	0.65	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Nitrophenol	ND		10	2.1	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/24/16 15:51	10/26/16 16:43	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
Phenol	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
Pyridine	ND		10	3.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
Quinoline	ND		10	6.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*34 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Nitrobenzene-d5	*73*		*27 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Phenol-d5	*65*		*10 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Terphenyl-d14	*66*		*53 - 125*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
2,4,6-Tribromophenol	*71*		*15 - 135*	*10/24/16 15:51*	*10/26/16 16:43*	*1*

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	22.9		ug/L		76	10 - 145
Benzoic acid	126	84.4		ug/L		67	10 - 120
Benzyl alcohol	30.0	26.2		ug/L		87	51 - 121
Bis(2-chloroethoxy)methane	30.0	27.7		ug/L		92	54 - 123
Bis(2-chloroethyl)ether	30.0	26.7		ug/L		89	47 - 120
bis (2-chloroisopropyl) ether	30.0	27.9		ug/L		93	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	26.7		ug/L		89	62 - 140
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132
Butyl benzyl phthalate	30.0	26.6		ug/L		89	51 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	22.1		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	23.0		ug/L		77	47 - 135
2-Chloronaphthalene	30.0	30.5		ug/L		102	24 - 150
2-Chlorophenol	30.0	25.2		ug/L		84	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.7		ug/L		99	61 - 133
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131
Dibenzofuran	30.0	30.1		ug/L		100	62 - 124
3,3'-Dichlorobenzidine	40.0	36.4		ug/L		91	16 - 167
2,4-Dichlorophenol	30.0	27.1		ug/L		90	52 - 125
Diethyl phthalate	30.0	29.7		ug/L		99	55 - 140
2,4-Dimethylphenol	30.0	28.7		ug/L		96	52 - 121
Dimethyl phthalate	30.0	31.4		ug/L		105	50 - 133
Di-n-butyl phthalate	30.0	27.3		ug/L		91	59 - 144
4,6-Dinitro-ortho-cresol	60.0	61.2		ug/L		102	46 - 136
2,4-Dinitrophenol	101	87.1		ug/L		86	22 - 146
2,4-Dinitrotoluene	30.0	34.7		ug/L		116	54 - 141
2,6-Dinitrotoluene	30.0	32.0		ug/L		107	61 - 130
Di-n-octyl phthalate	30.0	29.7		ug/L		99	55 - 140
1,4-Dioxane	30.0	17.8		ug/L		59	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	32.2		ug/L		107	55 - 139
Hexachlorobenzene	30.0	27.3		ug/L		91	60 - 138
Hexachlorocyclopentadiene	30.0	25.1		ug/L		84	1 - 139
Hexachloroethane	30.0	23.9		ug/L		80	46 - 121
Indene	30.0	28.8		ug/L		96	17 - 141
Isophorone	30.0	28.4		ug/L		95	57 - 122
2-Methylphenol	30.0	29.0		ug/L		97	38 - 121
3 & 4 Methylphenol	30.0	27.0		ug/L		90	43 - 126
2-Nitroaniline	30.0	34.5		ug/L		115	52 - 135
3-Nitroaniline	30.0	29.2		ug/L		97	51 - 128
4-Nitroaniline	30.0	31.9		ug/L		106	38 - 141
Nitrobenzene	30.0	27.6		ug/L		92	52 - 128
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
4-Nitrophenol	60.0	68.8		ug/L		115	34 - 137
N-Nitrosodimethylamine	30.0	26.4		ug/L		88	21 - 134
N-Nitrosodi-n-propylamine	30.0	29.5		ug/L		98	41 - 143
N-Nitrosodiphenylamine	29.8	32.3		ug/L		109	10 - 185
Pentachlorophenol	60.0	49.2		ug/L		82	38 - 138
Phenol	30.0	24.7		ug/L		82	37 - 120
Pyridine	30.0	19.4		ug/L		65	10 - 127
Quinoline	30.0	22.8		ug/L		76	10 - 164
2,4,5-Trichlorophenol	30.0	26.6		ug/L		89	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*65*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	*75*		*10 - 120*
Terphenyl-d14	*85*		*53 - 125*
2,4,6-Tribromophenol	*92*		*15 - 135*

Lab Sample ID: LCS 400-328073/4-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	16.3		ug/L		54	20 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*100*		*34 - 120*
2-Fluorophenol	*66*		*10 - 120*
Nitrobenzene-d5	*80*		*27 - 120*
Phenol-d5	*72*		*10 - 120*
Terphenyl-d14	*81*		*53 - 125*
2,4,6-Tribromophenol	*82*		*15 - 135*

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	19.6		ug/L		65	10 - 145	16	30
Benzoic acid	126	71.3		ug/L		57	10 - 120	17	30
Benzyl alcohol	30.0	20.9		ug/L		70	51 - 121	23	30
Bis(2-chloroethoxy)methane	30.0	22.4		ug/L		75	54 - 123	21	30
Bis(2-chloroethyl)ether	30.0	22.0		ug/L		73	47 - 120	19	30
bis (2-chloroisopropyl) ether	30.0	22.3		ug/L		74	20 - 142	22	30
Bis(2-ethylhexyl) phthalate	30.0	22.2		ug/L		74	62 - 140	18	30
4-Bromophenyl phenyl ether	30.0	22.8		ug/L		76	62 - 132	20	30
Butyl benzyl phthalate	30.0	22.9		ug/L		76	51 - 150	15	30
4-Chloroaniline	30.0	18.6		ug/L		62	32 - 128	17	30
4-Chloro-3-methylphenol	30.0	22.3		ug/L		74	47 - 135	3	30
2-Chloronaphthalene	30.0	25.4		ug/L		85	24 - 150	18	30
2-Chlorophenol	30.0	21.4		ug/L		71	45 - 120	16	30
4-Chlorophenyl phenyl ether	30.0	25.6		ug/L		85	61 - 133	15	30
Dibenz[a,h]acridine	30.0	25.5		ug/L		85	60 - 131	10	30
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124	16	30
3,3'-Dichlorobenzidine	40.0	31.9		ug/L		80	16 - 167	13	30
2,4-Dichlorophenol	30.0	22.7		ug/L		76	52 - 125	18	30
Diethyl phthalate	30.0	25.0		ug/L		83	55 - 140	17	30
2,4-Dimethylphenol	30.0	24.8		ug/L		83	52 - 121	15	30
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133	19	30
Di-n-butyl phthalate	30.0	22.9		ug/L		76	59 - 144	17	30
4,6-Dinitro-ortho-cresol	60.0	46.1		ug/L		77	46 - 136	28	30
2,4-Dinitrophenol	101	75.8		ug/L		75	22 - 146	14	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	30.0	29.4		ug/L		98	54 - 141	17	30
2,6-Dinitrotoluene	30.0	26.4		ug/L		88	61 - 130	19	30
Di-n-octyl phthalate	30.0	25.0		ug/L		83	55 - 140	17	30
1,4-Dioxane	30.0	18.3		ug/L		61	10 - 130	3	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.7	*	ug/L		76	55 - 139	35	30
Hexachlorobenzene	30.0	23.2		ug/L		77	60 - 138	16	30
Hexachlorocyclopentadiene	30.0	23.6		ug/L		79	1 - 139	6	30
Hexachloroethane	30.0	19.7		ug/L		66	46 - 121	19	30
Indene	30.0	22.7		ug/L		76	17 - 141	23	30
Isophorone	30.0	23.3		ug/L		78	57 - 122	20	30
2-Methylphenol	30.0	22.7		ug/L		76	38 - 121	24	30
3 & 4 Methylphenol	30.0	22.8		ug/L		76	43 - 126	17	30
2-Nitroaniline	30.0	28.6		ug/L		95	52 - 135	19	30
3-Nitroaniline	30.0	24.6		ug/L		82	51 - 128	17	30
4-Nitroaniline	30.0	26.2		ug/L		87	38 - 141	20	30
Nitrobenzene	30.0	22.7		ug/L		76	52 - 128	20	30
2-Nitrophenol	30.0	22.5		ug/L		75	47 - 129	13	30
4-Nitrophenol	60.0	59.0		ug/L		98	34 - 137	15	30
N-Nitrosodimethylamine	30.0	25.1		ug/L		84	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	25.0		ug/L		83	41 - 143	17	30
N-Nitrosodiphenylamine	29.8	23.5	*	ug/L		79	10 - 185	31	30
Pentachlorophenol	60.0	39.6		ug/L		66	38 - 138	22	30
Phenol	30.0	20.8		ug/L		69	37 - 120	17	30
Pyridine	30.0	18.5		ug/L		62	10 - 127	5	30
Quinoline	30.0	23.0		ug/L		77	10 - 164	1	30
2,4,5-Trichlorophenol	30.0	26.1		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	25.0		ug/L		83	52 - 131	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*67*		*10 - 120*
Nitrobenzene-d5	*74*		*27 - 120*
Phenol-d5	*72*		*10 - 120*
Terphenyl-d14	*76*		*53 - 125*
2,4,6-Tribromophenol	*85*		*15 - 135*

Lab Sample ID: LCSD 400-328073/5-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	3.77	J *	ug/L		13	20 - 150	125	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*82*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328073/5-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*74*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*86*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	30.9		ug/L		103	41 - 120
Acenaphthylene	30.0	30.4		ug/L		101	44 - 120
Anthracene	30.0	30.3		ug/L		101	49 - 120
Benzo[a]anthracene	30.0	30.8		ug/L		103	61 - 135
Benzo[a]pyrene	30.0	29.5		ug/L		98	52 - 120
Benzo[b]fluoranthene	30.0	34.4		ug/L		115	53 - 134
Benzo[g,h,i]perylene	30.0	29.0		ug/L		97	47 - 133
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134
Chrysene	30.0	25.5		ug/L		85	55 - 122
Dibenz(a,h)anthracene	30.0	30.9		ug/L		103	48 - 146
Fluoranthene	30.0	30.1		ug/L		100	54 - 128
Fluorene	30.0	32.6		ug/L		109	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.8		ug/L		103	43 - 142
Phenanthrene	30.0	33.3		ug/L		111	48 - 120
Pyrene	30.0	29.7		ug/L		99	48 - 132
1-Methylnaphthalene	30.0	22.0		ug/L		73	41 - 120
2-Methylnaphthalene	30.0	22.1		ug/L		74	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*112*		*33 - 138*
2-Fluorobiphenyl	*95*		*15 - 122*
Nitrobenzene-d5	*89*		*19 - 130*

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	27.8		ug/L		93	41 - 120	10	56
Acenaphthylene	30.0	27.4		ug/L		91	44 - 120	10	56
Anthracene	30.0	27.3		ug/L		91	49 - 120	10	51
Benzo[a]anthracene	30.0	28.2		ug/L		94	61 - 135	9	49
Benzo[a]pyrene	30.0	26.9		ug/L		90	52 - 120	9	50
Benzo[b]fluoranthene	30.0	31.7		ug/L		106	53 - 134	8	54
Benzo[g,h,i]perylene	30.0	27.2		ug/L		91	47 - 133	6	50
Benzo[k]fluoranthene	30.0	24.1		ug/L		80	57 - 134	9	52

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	30.0	23.3		ug/L		78	55 - 122	9	50
Dibenz(a,h)anthracene	30.0	29.8		ug/L		99	48 - 146	4	50
Fluoranthene	30.0	27.2		ug/L		91	54 - 128	10	52
Fluorene	30.0	29.8		ug/L		99	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	30.0	29.3		ug/L		98	43 - 142	5	51
Phenanthrene	30.0	29.7		ug/L		99	48 - 120	11	56
Pyrene	30.0	27.2		ug/L		91	48 - 132	9	52
1-Methylnaphthalene	30.0	21.6		ug/L		72	41 - 120	2	55
2-Methylnaphthalene	30.0	21.5		ug/L		72	32 - 124	3	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*99*		*33 - 138*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*83*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327995/1-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:45	10/24/16 19:41	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:45	10/24/16 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/24/16 09:45*	*10/24/16 19:41*	*1*

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0984		ug/L		98	60 - 140
1,2-Dibromoethane	0.100	0.0850		ug/L		85	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*118*		*51 - 149*

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0966		ug/L		97	60 - 140	2	30
1,2-Dibromoethane	0.100	0.0913		ug/L		91	60 - 140	7	30

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	128		51 - 149

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Other (_____) Lab Vendor # 1364539 (TestAmerica)

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☑ OTHER _ENV. SERVICES_____	

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
Bob Billman	25278	DATE 10-17-16
PO #	GSAP Project ID	PAGE: 1 of 1
60477387 - 1.03.004 / 1.03.0044	USPC/00114/R/02	

SAMPLING COMPANY: AECOM
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): PHONE NO.: E-MAIL: AECOM Other ID:
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): S. Fisher, K. Waitkowska, T. Jones, C. Williams
LAB USE ONLY
TELEPHONE: 314-429-0100
FAX: 314-429-0462
E-mail To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

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

☐ LA - RWQCB REPORT FORMAT

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

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports
* Please provide sample receipt upon login
2-17 report

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

REQUESTED ANALYSIS

| | | |

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128842-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128842
List Number: 1
Creator: Franklin, Justin H

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8, 2.8, 4.5°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128842-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128848-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/1/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101716-8260	TB-ROX-101716-8011
MW22-ROX-101716	MW22-ROX-101716-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 several SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria. The SVOC surrogate recovery of terphenyl-d_{14} in field duplicate pair MW22-ROX-101716/MW22-ROX-101716-Dup was outside criteria. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in sample MW22-ROX-101716-Dup and in the PAH method blank MB 400-328073/1-A. Results for 2-methylnaphthalene were qualified in field duplicate pair MW22-ROX-101716/MW22-ROX-101716-Dup due to field duplicate RPD above evaluation criteria; therefore results were qualified as estimated (**J/J**). VOCs and PAHs were minimally diluted in field duplicate pair MW22-ROX-101716/MW22-ROX-101716-Dup to bring analyte concentrations within calibration range. These issues are addressed further in the appropriate sections below.

The continuing calibration verification for benzo[b]fluoranthene exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

Although the cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

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
LCS/LCSD 400-328073/2-A/3-A	SVOCs	1,2-Diphenylhydrazine (as Azobenzene)	107/76	**35**	55-139/30
LCS/LCSD 400-328073/2-A/3-A	SVOCs	n-Nitrosodiphenylamine	88/79	**31**	10-185/30
LCS/LCSD 400-328073/4-A/5-A	SVOCs	Benzenethiol	54/**13**	**125**	20-150/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
MW22-ROX-101716	SVOCs	Benzenethiol	**UJ**
MW22-ROX-101716-Dup	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW22-ROX-101716	SVOCs	Terphenyl-d_{14}	**46**	53-125
MW22-ROX-101716-Dup	SVOCs	Terphenyl-d_{14}	**42**	53-125

Qualifications due to surrogate recoveries were not required due to only one of three base/neutral fraction surrogate recoveries being outside evaluation criteria in field duplicate pair MW22-ROX-101716/MW22-ROX-101716-Dup. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
MW22-ROX-101716-Dup	SVOCs	Perylene-d_{12}	**831069**	919993-3679972
MB 400-328073/1-A	PAHs	Perylene-d_{12}	**707561**	174353-697410

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below. Method blank MB 400-328073/1-A is a quality control sample and does not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW22-ROX-101716-Dup	SVOCs	Dibenz[a,h]acridine	**UJ**
MW22-ROX-101716-Dup	SVOCs	Di-n-octyl phthalate	**UJ**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW22-ROX-101716	MW22-ROX-101716-Dup

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
MW22-ROX-101716	MW22-ROX-101716-Dup	VOCs	2-Methylnaphthalene	**27**	**J/J**

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

No

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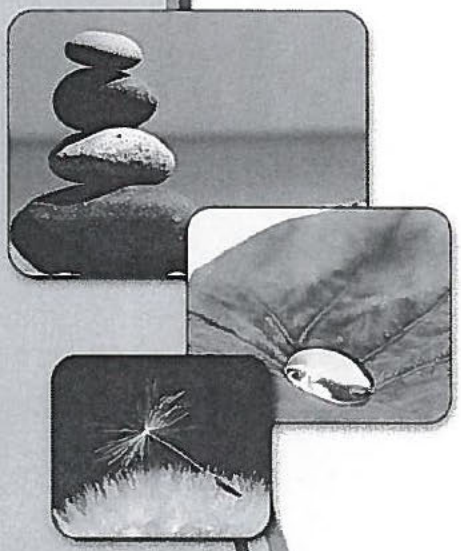
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128848-1
TestAmerica SDG: 60477387-1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn N. Hooper

Authorized for release by:
11/2/2016 7:35:46 PM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

Reviewed 12/1/2016

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Job ID: 400-128848-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128848-1

Receipt
The samples were received on 10/18/2016 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8°C, 2.8°C and 4.5°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328230 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-328230 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101716-8260 (400-128848-1), MW22-ROX-101716 (400-128848-3) and MW22-ROX-101716-DUP (400-128848-4). The requested target analyte list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which an acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270D: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 400-328073 recovered outside control limits for the following analytes: 1,2-Diphenylhydrazine (as Azobenzene) and N-Nitrosodiphenylamine.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-328073 and analytical batch 400-328374 recovered outside control limits for the following analyte: Benzenethiol. Benzenethiol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Internal standard responses were outside of acceptance limits for the following samples: MW22-ROX-101716 (400-128848-3) and MW22-ROX-101716-DUP (400-128848-4). The sample(s) shows evidence of matrix interference.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW22-ROX-101716 (400-128848-3) and MW22-ROX-101716-DUP (400-128848-4). These results have been reported and qualified.

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 400-328286 recovered above the upper control limit for Benzo[b]fluoranthene The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW22-ROX-101716 (400-128848-3) and MW22-ROX-101716-DUP (400-128848-4).

Physical properties (viscosity, color, odor) of the following samples extract preclude concentrated analysis which would jeopardize instrumentation. Minimal dilution with elevated RLs is reported. MW22-ROX-101716 (400-128848-3) and MW22-ROX-101716-DUP (400-128848-4)

Internal standard (ISTD) response for Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene for the following samples was outside acceptance criteria: (MB 400-328073/1-A). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Job ID: 400-128848-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-328073.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128848-1	TB-ROX-101716-8260	Water	10/17/16 00:00	10/18/16 09:11
400-128848-2	TB-ROX-101716-8011	Water	10/17/16 00:00	10/18/16 09:11
400-128848-3	MW22-ROX-101716	Water	10/17/16 09:25	10/18/16 09:11
400-128848-4	MW22-ROX-101716-DUP	Water	10/17/16 09:25	10/18/16 09:11

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260

Lab Sample ID: 400-128848-1

No Detections.

Client Sample ID: TB-ROX-101716-8011

Lab Sample ID: 400-128848-2

No Detections.

Client Sample ID: MW22-ROX-101716

Lab Sample ID: 400-128848-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	310		10	3.8	ug/L	10		8260B	Total/NA
Ethylbenzene	860		10	5.0	ug/L	10		8260B	Total/NA
Isopropylbenzene	31		10	5.3	ug/L	10		8260B	Total/NA
m-Xylene & p-Xylene	1700		50	16	ug/L	10		8260B	Total/NA
Naphthalene	110		10	10	ug/L	10		8260B	Total/NA
N-Propylbenzene	63		10	6.9	ug/L	10		8260B	Total/NA
o-Xylene	760		50	6.0	ug/L	10		8260B	Total/NA
Toluene	120		10	7.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	360		10	8.2	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	97		10	5.6	ug/L	10		8260B	Total/NA
Xylenes, Total	2500		100	16	ug/L	10		8260B	Total/NA
1-Methylnaphthalene	6.1		0.98	0.098	ug/L	5		8270D LL	Total/NA
2-Methylnaphthalene	7.9	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
2,4-Dimethylphenol	35		9.8	3.4	ug/L	1		8270D	Total/NA

Client Sample ID: MW22-ROX-101716-DUP

Lab Sample ID: 400-128848-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	310		10	3.8	ug/L	10		8260B	Total/NA
Ethylbenzene	890		10	5.0	ug/L	10		8260B	Total/NA
Isopropylbenzene	34		10	5.3	ug/L	10		8260B	Total/NA
m-Xylene & p-Xylene	1700		50	16	ug/L	10		8260B	Total/NA
Naphthalene	97		10	10	ug/L	10		8260B	Total/NA
N-Propylbenzene	61		10	6.9	ug/L	10		8260B	Total/NA
o-Xylene	800		50	6.0	ug/L	10		8260B	Total/NA
Toluene	120		10	7.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	350		10	8.2	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	92		10	5.6	ug/L	10		8260B	Total/NA
Xylenes, Total	2500		100	16	ug/L	10		8260B	Total/NA
1-Methylnaphthalene	4.8		0.98	0.098	ug/L	5		8270D LL	Total/NA
2-Methylnaphthalene	6.0	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
2,4-Dimethylphenol	42		9.8	3.4	ug/L	1		8270D	Total/NA
Indene	7.6	J	9.8	0.98	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 21:29	1
Acrolein	ND		20	10	ug/L			10/25/16 21:29	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 21:29	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 21:29	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 21:29	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 21:29	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 21:29	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 21:29	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 21:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 21:29	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 21:29	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 21:29	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 21:29	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 21:29	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:29	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 21:29	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 21:29	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 21:29	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 21:29	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 21:29	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 21:29	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 21:29	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 21:29	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 21:29	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 21:29	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 21:29	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 21:29	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 21:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 21:29	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 21:29	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 21:29	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 21:29	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 21:29	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8260
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 21:29	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 21:29	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 21:29	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 21:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 21:29	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 21:29	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 21:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 21:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 21:29	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 21:29	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 21:29	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 21:29	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 21:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 21:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 21:29	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 21:29	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 21:29	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/25/16 21:29*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/25/16 21:29*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/25/16 21:29*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: TB-ROX-101716-8011
Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/24/16 09:45	10/24/16 23:38	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 09:45	10/24/16 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*131*		*51 - 149*	*10/24/16 09:45*	*10/24/16 23:38*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	100	ug/L			10/26/16 03:17	10
Acrolein	ND		200	100	ug/L			10/26/16 03:17	10
Acrylonitrile	ND		100	28	ug/L			10/26/16 03:17	10
Benzene	**310**		10	3.8	ug/L			10/26/16 03:17	10
Bromobenzene	ND		10	5.4	ug/L			10/26/16 03:17	10
Bromochloromethane	ND		10	5.2	ug/L			10/26/16 03:17	10
Bromodichloromethane	ND		10	5.0	ug/L			10/26/16 03:17	10
Bromoform	ND		50	7.1	ug/L			10/26/16 03:17	10
Bromomethane	ND		10	9.8	ug/L			10/26/16 03:17	10
2-Butanone (MEK)	ND		250	26	ug/L			10/26/16 03:17	10
Carbon disulfide	ND		10	5.0	ug/L			10/26/16 03:17	10
Carbon tetrachloride	ND		10	5.0	ug/L			10/26/16 03:17	10
Chlorobenzene	ND		10	5.0	ug/L			10/26/16 03:17	10
Dibromochloromethane	ND		10	5.0	ug/L			10/26/16 03:17	10
Chloroethane	ND		10	7.6	ug/L			10/26/16 03:17	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			10/26/16 03:17	10
Chloroform	ND		10	6.0	ug/L			10/26/16 03:17	10
1-Chlorohexane	ND		10	7.0	ug/L			10/26/16 03:17	10
Chloromethane	ND		10	8.3	ug/L			10/26/16 03:17	10
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:17	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			10/26/16 03:17	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			10/26/16 03:17	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			10/26/16 03:17	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			10/26/16 03:17	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			10/26/16 03:17	10
1,1-Dichloroethane	ND		10	5.0	ug/L			10/26/16 03:17	10
1,2-Dichloroethane	ND		10	5.0	ug/L			10/26/16 03:17	10
1,1-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:17	10
1,2-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:17	10
1,3-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:17	10
2,2-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:17	10
1,1-Dichloropropene	ND		10	5.0	ug/L			10/26/16 03:17	10
Ethylbenzene	**860**		10	5.0	ug/L			10/26/16 03:17	10
Ethyl methacrylate	ND		10	6.0	ug/L			10/26/16 03:17	10
Hexachlorobutadiene	ND		50	9.0	ug/L			10/26/16 03:17	10
2-Hexanone	ND		250	31	ug/L			10/26/16 03:17	10
Isopropylbenzene	**31**		10	5.3	ug/L			10/26/16 03:17	10
Methylene bromide	ND		50	5.9	ug/L			10/26/16 03:17	10
Methylene Chloride	ND		50	30	ug/L			10/26/16 03:17	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			10/26/16 03:17	10
Methyl tert-butyl ether	ND		10	7.4	ug/L			10/26/16 03:17	10
m-Xylene & p-Xylene	**1700**		50	16	ug/L			10/26/16 03:17	10
Naphthalene	**110**		10	10	ug/L			10/26/16 03:17	10
n-Butylbenzene	ND		10	7.6	ug/L			10/26/16 03:17	10
N-Propylbenzene	**63**		10	6.9	ug/L			10/26/16 03:17	10
o-Chlorotoluene	ND		10	5.7	ug/L			10/26/16 03:17	10
o-Xylene	**760**		50	6.0	ug/L			10/26/16 03:17	10
p-Chlorotoluene	ND		10	5.6	ug/L			10/26/16 03:17	10
p-Isopropyltoluene	ND		10	7.1	ug/L			10/26/16 03:17	10

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10	7.0	ug/L			10/26/16 03:17	10
Styrene	ND		10	10	ug/L			10/26/16 03:17	10
tert-Butylbenzene	ND		10	6.3	ug/L			10/26/16 03:17	10
1,1,1,2-Tetrachloroethane	ND		10	5.2	ug/L			10/26/16 03:17	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			10/26/16 03:17	10
Tetrachloroethene	ND		10	5.8	ug/L			10/26/16 03:17	10
Toluene	**120**		10	7.0	ug/L			10/26/16 03:17	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:17	10
trans-1,3-Dichloropropene	ND		50	5.0	ug/L			10/26/16 03:17	10
1,2,3-Trichlorobenzene	ND		10	7.0	ug/L			10/26/16 03:17	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			10/26/16 03:17	10
1,1,1-Trichloroethane	ND		10	5.0	ug/L			10/26/16 03:17	10
1,1,2-Trichloroethane	ND		50	5.0	ug/L			10/26/16 03:17	10
Trichloroethene	ND		10	5.0	ug/L			10/26/16 03:17	10
Trichlorofluoromethane	ND		10	5.2	ug/L			10/26/16 03:17	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			10/26/16 03:17	10
1,2,4-Trimethylbenzene	**360**		10	8.2	ug/L			10/26/16 03:17	10
1,3,5-Trimethylbenzene	**97**		10	5.6	ug/L			10/26/16 03:17	10
Vinyl acetate	ND		250	20	ug/L			10/26/16 03:17	10
Vinyl chloride	ND		10	5.0	ug/L			10/26/16 03:17	10
Xylenes, Total	**2500**		100	16	ug/L			10/26/16 03:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/26/16 03:17*	*10*
Dibromofluoromethane	*106*		*81 - 121*		*10/26/16 03:17*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/26/16 03:17*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
Acenaphthylene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
Anthracene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
Benzo[a]anthracene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Benzo[a]pyrene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Benzo[b]fluoranthene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Benzo[g,h,i]perylene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Benzo[k]fluoranthene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Chrysene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Dibenz(a,h)anthracene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Fluoranthene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
Fluorene	ND		0.98	0.10	ug/L		10/24/16 15:51	10/26/16 15:26	5
Indeno[1,2,3-cd]pyrene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:26	5
Phenanthrene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
Pyrene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
1-Methylnaphthalene	**6.1**		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5
2-Methylnaphthalene	**7.9**	J	0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*52*		*33 - 138*	*10/24/16 15:51*	*10/26/16 15:26*	*5*
2-Fluorobiphenyl	*80*		*15 - 122*	*10/24/16 15:51*	*10/26/16 15:26*	*5*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		19 - 130	10/24/16 15:51	10/26/16 15:26	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 19:32	1
Benzenethiol	ND	*	9.8	1.7	ug/L		10/24/16 15:51	10/26/16 19:32	1
Benzoic acid	ND		29	7.1	ug/L		10/24/16 15:51	10/26/16 19:32	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 19:32	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/24/16 15:51	10/26/16 19:32	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/24/16 15:51	10/26/16 19:32	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/24/16 15:51	10/26/16 19:32	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/24/16 15:51	10/26/16 19:32	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 19:32	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 19:32	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 19:32	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/24/16 15:51	10/26/16 19:32	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 19:32	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/24/16 15:51	10/26/16 19:32	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4-Dimethylphenol	35		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 19:32	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/24/16 15:51	10/26/16 19:32	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/24/16 15:51	10/26/16 19:32	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 19:32	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/24/16 15:51	10/26/16 19:32	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 19:32	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.8	0.98	ug/L		10/24/16 15:51	10/26/16 19:32	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/24/16 15:51	10/26/16 19:32	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/24/16 15:51	10/26/16 19:32	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/24/16 15:51	10/26/16 19:32	1
Indene	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 19:32	1
Isophorone	ND		9.8	0.56	ug/L		10/24/16 15:51	10/26/16 19:32	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 19:32	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 19:32	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/24/16 15:51	10/26/16 19:32	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/24/16 15:51	10/26/16 19:32	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/24/16 15:51	10/26/16 19:32	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/24/16 15:51	10/26/16 19:32	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 19:32	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 19:32	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/24/16 15:51	10/26/16 19:32	1
N-Nitrosodiphenylamine	ND	*	9.8	0.46	ug/L		10/24/16 15:51	10/26/16 19:32	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 19:32	1
Phenol	ND		9.8	2.5	ug/L		10/24/16 15:51	10/26/16 19:32	1
Pyridine	ND		9.8	3.1	ug/L		10/24/16 15:51	10/26/16 19:32	1
Quinoline	ND		9.8	5.9	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/24/16 15:51	10/26/16 19:32	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*34 - 120*	*10/24/16 15:51*	*10/26/16 19:32*	*1*
2-Fluorophenol	*75*		*10 - 120*	*10/24/16 15:51*	*10/26/16 19:32*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*10/24/16 15:51*	*10/26/16 19:32*	*1*
Phenol-d5	*61*		*10 - 120*	*10/24/16 15:51*	*10/26/16 19:32*	*1*
Terphenyl-d14	*46*	X	*53 - 125*	*10/24/16 15:51*	*10/26/16 19:32*	*1*
2,4,6-Tribromophenol	*55*		*15 - 135*	*10/24/16 15:51*	*10/26/16 19:32*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/24/16 09:45	10/25/16 00:08	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/25/16 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*		*51 - 149*	*10/24/16 09:45*	*10/25/16 00:08*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716-DUP
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	100	ug/L			10/26/16 03:40	10
Acrolein	ND		200	100	ug/L			10/26/16 03:40	10
Acrylonitrile	ND		100	28	ug/L			10/26/16 03:40	10
Benzene	**310**		10	3.8	ug/L			10/26/16 03:40	10
Bromobenzene	ND		10	5.4	ug/L			10/26/16 03:40	10
Bromochloromethane	ND		10	5.2	ug/L			10/26/16 03:40	10
Bromodichloromethane	ND		10	5.0	ug/L			10/26/16 03:40	10
Bromoform	ND		50	7.1	ug/L			10/26/16 03:40	10
Bromomethane	ND		10	9.8	ug/L			10/26/16 03:40	10
2-Butanone (MEK)	ND		250	26	ug/L			10/26/16 03:40	10
Carbon disulfide	ND		10	5.0	ug/L			10/26/16 03:40	10
Carbon tetrachloride	ND		10	5.0	ug/L			10/26/16 03:40	10
Chlorobenzene	ND		10	5.0	ug/L			10/26/16 03:40	10
Dibromochloromethane	ND		10	5.0	ug/L			10/26/16 03:40	10
Chloroethane	ND		10	7.6	ug/L			10/26/16 03:40	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			10/26/16 03:40	10
Chloroform	ND		10	6.0	ug/L			10/26/16 03:40	10
1-Chlorohexane	ND		10	7.0	ug/L			10/26/16 03:40	10
Chloromethane	ND		10	8.3	ug/L			10/26/16 03:40	10
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:40	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			10/26/16 03:40	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			10/26/16 03:40	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			10/26/16 03:40	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			10/26/16 03:40	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			10/26/16 03:40	10
1,1-Dichloroethane	ND		10	5.0	ug/L			10/26/16 03:40	10
1,2-Dichloroethane	ND		10	5.0	ug/L			10/26/16 03:40	10
1,1-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:40	10
1,2-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:40	10
1,3-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:40	10
2,2-Dichloropropane	ND		10	5.0	ug/L			10/26/16 03:40	10
1,1-Dichloropropene	ND		10	5.0	ug/L			10/26/16 03:40	10
Ethylbenzene	**890**		10	5.0	ug/L			10/26/16 03:40	10
Ethyl methacrylate	ND		10	6.0	ug/L			10/26/16 03:40	10
Hexachlorobutadiene	ND		50	9.0	ug/L			10/26/16 03:40	10
2-Hexanone	ND		250	31	ug/L			10/26/16 03:40	10
Isopropylbenzene	**34**		10	5.3	ug/L			10/26/16 03:40	10
Methylene bromide	ND		50	5.9	ug/L			10/26/16 03:40	10
Methylene Chloride	ND		50	30	ug/L			10/26/16 03:40	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			10/26/16 03:40	10
Methyl tert-butyl ether	ND		10	7.4	ug/L			10/26/16 03:40	10
m-Xylene & p-Xylene	**1700**		50	16	ug/L			10/26/16 03:40	10
Naphthalene	**97**		10	10	ug/L			10/26/16 03:40	10
n-Butylbenzene	ND		10	7.6	ug/L			10/26/16 03:40	10
N-Propylbenzene	**61**		10	6.9	ug/L			10/26/16 03:40	10
o-Chlorotoluene	ND		10	5.7	ug/L			10/26/16 03:40	10
o-Xylene	**800**		50	6.0	ug/L			10/26/16 03:40	10
p-Chlorotoluene	ND		10	5.6	ug/L			10/26/16 03:40	10
p-Isopropyltoluene	ND		10	7.1	ug/L			10/26/16 03:40	10

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716-DUP
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10	7.0	ug/L			10/26/16 03:40	10
Styrene	ND		10	10	ug/L			10/26/16 03:40	10
tert-Butylbenzene	ND		10	6.3	ug/L			10/26/16 03:40	10
1,1,1,2-Tetrachloroethane	ND		10	5.2	ug/L			10/26/16 03:40	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			10/26/16 03:40	10
Tetrachloroethene	ND		10	5.8	ug/L			10/26/16 03:40	10
Toluene	**120**		10	7.0	ug/L			10/26/16 03:40	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			10/26/16 03:40	10
trans-1,3-Dichloropropene	ND		50	5.0	ug/L			10/26/16 03:40	10
1,2,3-Trichlorobenzene	ND		10	7.0	ug/L			10/26/16 03:40	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			10/26/16 03:40	10
1,1,1-Trichloroethane	ND		10	5.0	ug/L			10/26/16 03:40	10
1,1,2-Trichloroethane	ND		50	5.0	ug/L			10/26/16 03:40	10
Trichloroethene	ND		10	5.0	ug/L			10/26/16 03:40	10
Trichlorofluoromethane	ND		10	5.2	ug/L			10/26/16 03:40	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			10/26/16 03:40	10
1,2,4-Trimethylbenzene	**350**		10	8.2	ug/L			10/26/16 03:40	10
1,3,5-Trimethylbenzene	**92**		10	5.6	ug/L			10/26/16 03:40	10
Vinyl acetate	ND		250	20	ug/L			10/26/16 03:40	10
Vinyl chloride	ND		10	5.0	ug/L			10/26/16 03:40	10
Xylenes, Total	**2500**		100	16	ug/L			10/26/16 03:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/26/16 03:40*	*10*
Dibromofluoromethane	*101*		*81 - 121*		*10/26/16 03:40*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/26/16 03:40*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
Acenaphthylene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
Anthracene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
Benzo[a]anthracene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Benzo[a]pyrene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Benzo[b]fluoranthene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Benzo[g,h,i]perylene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Benzo[k]fluoranthene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Chrysene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Dibenz(a,h)anthracene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Fluoranthene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
Fluorene	ND		0.98	0.10	ug/L		10/24/16 15:51	10/26/16 15:51	5
Indeno[1,2,3-cd]pyrene	ND		0.98	0.20	ug/L		10/24/16 15:51	10/26/16 15:51	5
Phenanthrene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
Pyrene	ND		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
1-Methylnaphthalene	**4.8**		0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5
2-Methylnaphthalene	**6.0**	J	0.98	0.098	ug/L		10/24/16 15:51	10/26/16 15:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*47*		*33 - 138*	*10/24/16 15:51*	*10/26/16 15:51*	*5*
2-Fluorobiphenyl	*74*		*15 - 122*	*10/24/16 15:51*	*10/26/16 15:51*	*5*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716-DUP
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		19 - 130	10/24/16 15:51	10/26/16 15:51	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 20:05	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		10/24/16 15:51	10/26/16 20:05	1
Benzoic acid	ND		29	7.1	ug/L		10/24/16 15:51	10/26/16 20:05	1
Benzyl alcohol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 20:05	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/24/16 15:51	10/26/16 20:05	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/24/16 15:51	10/26/16 20:05	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/24/16 15:51	10/26/16 20:05	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/24/16 15:51	10/26/16 20:05	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/24/16 15:51	10/26/16 20:05	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 20:05	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 20:05	1
Dibenz[a,h]acridine	ND	* UJ	9.8	2.9	ug/L		10/24/16 15:51	10/26/16 20:05	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/24/16 15:51	10/26/16 20:05	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/24/16 15:51	10/26/16 20:05	1
Diethyl phthalate	ND		9.8	0.68	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4-Dimethylphenol	**42**		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 20:05	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/24/16 15:51	10/26/16 20:05	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/24/16 15:51	10/26/16 20:05	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/24/16 15:51	10/26/16 20:05	1
Di-n-octyl phthalate	ND	UJ	9.8	0.43	ug/L		10/24/16 15:51	10/26/16 20:05	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/24/16 15:51	10/26/16 20:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.8	0.98	ug/L		10/24/16 15:51	10/26/16 20:05	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/24/16 15:51	10/26/16 20:05	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/24/16 15:51	10/26/16 20:05	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/24/16 15:51	10/26/16 20:05	1
Indene	**7.6**	J	9.8	0.98	ug/L		10/24/16 15:51	10/26/16 20:05	1
Isophorone	ND		9.8	0.56	ug/L		10/24/16 15:51	10/26/16 20:05	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 20:05	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 20:05	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/24/16 15:51	10/26/16 20:05	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/24/16 15:51	10/26/16 20:05	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/24/16 15:51	10/26/16 20:05	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/24/16 15:51	10/26/16 20:05	1
4-Nitrophenol	ND		9.8	2.0	ug/L		10/24/16 15:51	10/26/16 20:05	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 20:05	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Client Sample ID: MW22-ROX-101716-DUP
Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128848-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		10/24/16 15:51	10/26/16 20:05	1
N-Nitrosodiphenylamine	ND	*	9.8	0.46	ug/L		10/24/16 15:51	10/26/16 20:05	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 20:05	1
Phenol	ND		9.8	2.5	ug/L		10/24/16 15:51	10/26/16 20:05	1
Pyridine	ND		9.8	3.1	ug/L		10/24/16 15:51	10/26/16 20:05	1
Quinoline	ND		9.8	5.9	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/24/16 15:51	10/26/16 20:05	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/24/16 15:51	10/26/16 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*34 - 120*	*10/24/16 15:51*	*10/26/16 20:05*	*1*
2-Fluorophenol	*73*		*10 - 120*	*10/24/16 15:51*	*10/26/16 20:05*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/24/16 15:51*	*10/26/16 20:05*	*1*
Phenol-d5	*62*		*10 - 120*	*10/24/16 15:51*	*10/26/16 20:05*	*1*
Terphenyl-d14	*42*	*X*	*53 - 125*	*10/24/16 15:51*	*10/26/16 20:05*	*1*
2,4,6-Tribromophenol	*47*		*15 - 135*	*10/24/16 15:51*	*10/26/16 20:05*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/24/16 09:45	10/25/16 01:07	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/25/16 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/24/16 09:45*	*10/25/16 01:07*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128764-A-2 MS	Matrix Spike	90	105	103
400-128764-A-2 MSD	Matrix Spike Duplicate	88	106	103
400-128848-1	TB-ROX-101716-8260	91	102	106
400-128848-3	MW22-ROX-101716	96	106	106
400-128848-4	MW22-ROX-101716-DUP	89	101	106
LCS 400-328230/1002	Lab Control Sample	92	108	103
MB 400-328230/18	Method Blank	90	105	108

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128848-3	MW22-ROX-101716	55	75	78	61	46 X	55
400-128848-4	MW22-ROX-101716-DUP	45	73	80	62	42 X	47
LCS 400-328073/2-A	Lab Control Sample	81	65	84	75	85	92
LCS 400-328073/4-A	Lab Control Sample	100	66	80	72	81	82
LCSD 400-328073/3-A	Lab Control Sample Dup	81	67	74	72	76	85
LCSD 400-328073/5-A	Lab Control Sample Dup	94	71	82	74	86	86
MB 400-328073/1-A	Method Blank	80	56	73	65	66	71

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128848-3	MW22-ROX-101716	52	80	97
400-128848-4	MW22-ROX-101716-DUP	47	74	94
LCS 400-328073/2-A	Lab Control Sample	112	95	89
LCSD 400-328073/3-A	Lab Control Sample Dup	99	84	83

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	**Client Sample ID**	**(51-149)**
400-128848-2	TB-ROX-101716-8011	131
400-128848-3	MW22-ROX-101716	125
400-128848-4	MW22-ROX-101716-DUP	106
LCS 400-327995/2-A	Lab Control Sample	118
LCSD 400-327995/3-A	Lab Control Sample Dup	128
MB 400-327995/1-A	Method Blank	141

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101716-8260

Lab Sample ID: 400-128848-1

Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 21:29	S1S	TAL PEN

Client Sample ID: TB-ROX-101716-8011

Lab Sample ID: 400-128848-2

Date Collected: 10/17/16 00:00
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 23:38	KH1	TAL PEN

Client Sample ID: MW22-ROX-101716

Lab Sample ID: 400-128848-3

Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	328230	10/26/16 03:17	S1S	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 19:32	DHW	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 15:26	VC1	TAL PEN
Total/NA	Prep	8011			34.5 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 00:08	KH1	TAL PEN

Client Sample ID: MW22-ROX-101716-DUP

Lab Sample ID: 400-128848-4

Date Collected: 10/17/16 09:25
Date Received: 10/18/16 09:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	328230	10/26/16 03:40	S1S	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 20:05	DHW	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 15:51	VC1	TAL PEN
Total/NA	Prep	8011			34.5 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 01:07	KH1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-327995/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327995/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1			328117	10/24/16 19:41	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328073/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 16:43	DHW	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328230/18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 18:35	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:10	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 17:17	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 12:52	VC1	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328073/4-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 18:24	DHW	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-328230/1002**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 17:38	S1S	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-327995/3-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:40	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-328073/3-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 17:51	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 13:17	VC1	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-328073/5-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328073	10/24/16 15:51	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 18:58	DHW	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-128764-A-2 MS**
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 19:57	S1S	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-128764-A-2 MSD**
Date Collected: 10/14/16 10:40
Date Received: 10/15/16 09:13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328230	10/25/16 20:20	S1S	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-1	TB-ROX-101716-8260	Total/NA	Water	8260B	
400-128848-3	MW22-ROX-101716	Total/NA	Water	8260B	
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	8260B	
MB 400-328230/18	Method Blank	Total/NA	Water	8260B	
LCS 400-328230/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128764-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
400-128764-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 328073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-3	MW22-ROX-101716	Total/NA	Water	3520C	
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	3520C	
MB 400-328073/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-328073/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-328073/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 328286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-3	MW22-ROX-101716	Total/NA	Water	8270D LL	328073
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	8270D LL	328073
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	8270D LL	328073
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	328073

Analysis Batch: 328374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-3	MW22-ROX-101716	Total/NA	Water	8270D	328073
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	8270D	328073
MB 400-328073/1-A	Method Blank	Total/NA	Water	8270D	328073
LCS 400-328073/2-A	Lab Control Sample	Total/NA	Water	8270D	328073
LCS 400-328073/4-A	Lab Control Sample	Total/NA	Water	8270D	328073
LCSD 400-328073/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328073
LCSD 400-328073/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	328073

GC Semi VOA

Prep Batch: 327995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-2	TB-ROX-101716-8011	Total/NA	Water	8011	
400-128848-3	MW22-ROX-101716	Total/NA	Water	8011	
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	8011	
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

GC Semi VOA (Continued)

Analysis Batch: 328117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128848-2	TB-ROX-101716-8011	Total/NA	Water	8011	327995
400-128848-3	MW22-ROX-101716	Total/NA	Water	8011	327995
400-128848-4	MW22-ROX-101716-DUP	Total/NA	Water	8011	327995
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	327995
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	327995
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327995

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/25/16 18:35	1
Acrolein	ND		20	10	ug/L			10/25/16 18:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/25/16 18:35	1
Benzene	ND		1.0	0.38	ug/L			10/25/16 18:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Bromoform	ND		5.0	0.71	ug/L			10/25/16 18:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/25/16 18:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/25/16 18:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/25/16 18:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/25/16 18:35	1
Chloroform	ND		1.0	0.60	ug/L			10/25/16 18:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/25/16 18:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/25/16 18:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/25/16 18:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/25/16 18:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/25/16 18:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/25/16 18:35	1
2-Hexanone	ND		25	3.1	ug/L			10/25/16 18:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/25/16 18:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/25/16 18:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/25/16 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/25/16 18:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/25/16 18:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/25/16 18:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/25/16 18:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/25/16 18:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/25/16 18:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/25/16 18:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/25/16 18:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328230/18
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/25/16 18:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
Styrene	ND		1.0	1.0	ug/L			10/25/16 18:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/25/16 18:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/25/16 18:35	1
Toluene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/25/16 18:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/25/16 18:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/25/16 18:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/25/16 18:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/25/16 18:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/25/16 18:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/25/16 18:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/25/16 18:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/25/16 18:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/25/16 18:35	1
Xylenes, Total	ND		10	1.6	ug/L			10/25/16 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/25/16 18:35*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/25/16 18:35*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/25/16 18:35*	*1*

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	234		ug/L		117	43 - 160
Acrolein	500	467		ug/L		93	38 - 160
Acrylonitrile	500	462		ug/L		92	64 - 142
Benzene	50.0	48.7		ug/L		97	70 - 130
Bromobenzene	50.0	51.3		ug/L		103	70 - 132
Bromochloromethane	50.0	49.1		ug/L		98	70 - 130
Bromodichloromethane	50.0	45.7		ug/L		91	67 - 133
Bromoform	50.0	40.2		ug/L		80	57 - 140
Bromomethane	50.0	54.3		ug/L		109	10 - 160
2-Butanone (MEK)	200	208		ug/L		104	61 - 145
Carbon disulfide	50.0	39.8		ug/L		80	61 - 137
Carbon tetrachloride	50.0	49.0		ug/L		98	61 - 137
Chlorobenzene	50.0	52.1		ug/L		104	70 - 130
Dibromochloromethane	50.0	45.2		ug/L		90	67 - 135
Chloroethane	50.0	51.6		ug/L		103	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	35.3		ug/L		71	10 - 160
Chloroform	50.0	50.4		ug/L		101	69 - 130
1-Chlorohexane	50.0	50.0		ug/L		100	69 - 130
Chloromethane	50.0	39.7		ug/L		79	58 - 137
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	69 - 132
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	31.5		ug/L		63	41 - 146
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	46.7		ug/L		93	63 - 134
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	45.4		ug/L		91	52 - 135
1,1-Dichloropropene	50.0	50.9		ug/L		102	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Ethyl methacrylate	50.0	43.2		ug/L		86	68 - 130
Hexachlorobutadiene	50.0	53.4		ug/L		107	53 - 140
2-Hexanone	200	196		ug/L		98	65 - 137
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 130
Methylene bromide	50.0	49.7		ug/L		99	70 - 130
Methylene Chloride	50.0	45.3		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	189		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	44.2		ug/L		88	66 - 130
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
Naphthalene	50.0	47.0		ug/L		94	47 - 149
n-Butylbenzene	50.0	58.0		ug/L		116	67 - 130
N-Propylbenzene	50.0	52.9		ug/L		106	70 - 130
o-Chlorotoluene	50.0	51.5		ug/L		103	70 - 130
o-Xylene	50.0	49.3		ug/L		99	70 - 130
p-Chlorotoluene	50.0	50.1		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	55.1		ug/L		110	65 - 130
sec-Butylbenzene	50.0	55.2		ug/L		110	66 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
tert-Butylbenzene	50.0	53.5		ug/L		107	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 131
Tetrachloroethene	50.0	47.2		ug/L		94	65 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	42.6		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	60 - 138
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	68 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 130
Trichloroethene	50.0	51.3		ug/L		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328230/1002
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	50.2		ug/L		100	65 - 138
1,2,3-Trichloropropane	50.0	46.3		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	52.5		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/L		105	69 - 130
Vinyl acetate	100	99.3		ug/L		99	26 - 160
Vinyl chloride	50.0	43.0		ug/L		86	59 - 136
Xylenes, Total	100	99.8		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-128764-A-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	149		ug/L		74	43 - 160
Acrolein	ND		500	444		ug/L		89	38 - 160
Acrylonitrile	ND		500	463		ug/L		93	62 - 149
Benzene	ND		50.0	49.1		ug/L		98	56 - 142
Bromobenzene	ND		50.0	49.8		ug/L		100	59 - 136
Bromochloromethane	ND		50.0	47.8		ug/L		96	64 - 140
Bromodichloromethane	ND		50.0	45.2		ug/L		90	59 - 143
Bromoform	ND		50.0	37.9		ug/L		76	50 - 140
Bromomethane	ND		50.0	46.8		ug/L		94	10 - 160
2-Butanone (MEK)	ND		200	164		ug/L		82	55 - 150
Carbon disulfide	ND		50.0	41.2		ug/L		82	48 - 152
Carbon tetrachloride	ND		50.0	47.3		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	43.9		ug/L		88	56 - 143
Chloroethane	ND		50.0	45.7		ug/L		91	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	3.41	J F1	ug/L		7	10 - 160
Chloroform	ND		50.0	50.1		ug/L		100	60 - 141
1-Chlorohexane	ND		50.0	47.1		ug/L		94	56 - 136
Chloromethane	ND		50.0	36.5		ug/L		73	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.5		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	50.7		ug/L		101	52 - 137
1,3-Dichlorobenzene	ND		50.0	50.1		ug/L		100	54 - 135
1,4-Dichlorobenzene	ND		50.0	51.3		ug/L		103	53 - 135
Dichlorodifluoromethane	ND		50.0	28.7		ug/L		57	16 - 160
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144
1,2-Dichloroethane	ND		50.0	50.7		ug/L		101	60 - 141
1,1-Dichloroethene	ND		50.0	46.8		ug/L		94	54 - 147
1,2-Dichloropropane	ND		50.0	50.1		ug/L		100	66 - 137
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MS
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.9		ug/L		88	42 - 144
1,1-Dichloropropene	ND		50.0	50.5		ug/L		101	65 - 136
Ethylbenzene	ND		50.0	49.9		ug/L		100	58 - 131
Ethyl methacrylate	ND		50.0	43.9		ug/L		88	64 - 130
Hexachlorobutadiene	ND		50.0	47.7		ug/L		95	31 - 149
2-Hexanone	ND		200	166		ug/L		83	65 - 140
Isopropylbenzene	ND		50.0	51.6		ug/L		103	56 - 133
Methylene bromide	ND		50.0	50.3		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	45.9		ug/L		92	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	187		ug/L		93	63 - 146
Methyl tert-butyl ether	ND		50.0	43.6		ug/L		87	59 - 137
m-Xylene & p-Xylene	ND		50.0	48.9		ug/L		98	57 - 130
Naphthalene	ND		50.0	46.1		ug/L		92	25 - 160
n-Butylbenzene	ND		50.0	54.2		ug/L		108	41 - 142
N-Propylbenzene	ND		50.0	51.9		ug/L		104	51 - 138
o-Chlorotoluene	ND		50.0	49.6		ug/L		99	53 - 134
o-Xylene	ND		50.0	49.3		ug/L		99	61 - 130
p-Chlorotoluene	ND		50.0	49.7		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	52.8		ug/L		106	48 - 139
sec-Butylbenzene	ND		50.0	53.2		ug/L		106	50 - 138
Styrene	ND		50.0	48.9		ug/L		98	58 - 131
tert-Butylbenzene	ND		50.0	51.8		ug/L		104	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.9		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	43.0		ug/L		86	52 - 133
Toluene	ND		50.0	49.8		ug/L		100	65 - 130
trans-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	61 - 143
trans-1,3-Dichloropropene	ND		50.0	42.2		ug/L		84	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.6		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	48.0		ug/L		96	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	57 - 142
1,1,2-Trichloroethane	ND		50.0	49.5		ug/L		99	66 - 131
Trichloroethene	ND		50.0	49.1		ug/L		98	64 - 136
Trichlorofluoromethane	ND		50.0	47.3		ug/L		95	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.4		ug/L		95	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	50.2		ug/L		100	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.2		ug/L		102	52 - 135
Vinyl acetate	ND		100	92.6		ug/L		93	26 - 160
Vinyl chloride	ND		50.0	39.3		ug/L		79	46 - 152
Xylenes, Total	ND		100	98.2		ug/L		98	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	154		ug/L		77	43 - 160	3	30
Acrolein	ND		500	466		ug/L		93	38 - 160	5	31
Acrylonitrile	ND		500	466		ug/L		93	62 - 149	1	30
Benzene	ND		50.0	47.6		ug/L		95	56 - 142	3	30
Bromobenzene	ND		50.0	48.0		ug/L		96	59 - 136	4	30
Bromochloromethane	ND		50.0	46.1		ug/L		92	64 - 140	4	30
Bromodichloromethane	ND		50.0	43.1		ug/L		86	59 - 143	5	30
Bromoform	ND		50.0	37.7		ug/L		75	50 - 140	1	30
Bromomethane	ND		50.0	48.9		ug/L		98	10 - 160	4	50
2-Butanone (MEK)	ND		200	176		ug/L		88	55 - 150	8	30
Carbon disulfide	ND		50.0	39.6		ug/L		79	48 - 152	4	30
Carbon tetrachloride	ND		50.0	46.1		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	49.1		ug/L		98	64 - 130	7	30
Dibromochloromethane	ND		50.0	42.4		ug/L		85	56 - 143	4	30
Chloroethane	ND		50.0	50.6		ug/L		101	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	48.2		ug/L		96	60 - 141	4	30
1-Chlorohexane	ND		50.0	46.1		ug/L		92	56 - 136	2	30
Chloromethane	ND		50.0	40.4		ug/L		81	49 - 148	10	31
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	45.2		ug/L		90	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	49.1		ug/L		98	52 - 137	3	30
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	48.0		ug/L		96	53 - 135	7	30
Dichlorodifluoromethane	ND		50.0	31.2		ug/L		62	16 - 160	8	31
1,1-Dichloroethane	ND		50.0	49.4		ug/L		99	61 - 144	0	30
1,2-Dichloroethane	ND		50.0	48.6		ug/L		97	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	44.7		ug/L		89	54 - 147	5	30
1,2-Dichloropropane	ND		50.0	49.8		ug/L		100	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	47.9		ug/L		96	66 - 133	5	30
2,2-Dichloropropane	ND		50.0	42.7		ug/L		85	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	49.7		ug/L		99	65 - 136	2	30
Ethylbenzene	ND		50.0	46.9		ug/L		94	58 - 131	6	30
Ethyl methacrylate	ND		50.0	43.1		ug/L		86	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	47.4		ug/L		95	31 - 149	1	36
2-Hexanone	ND		200	164		ug/L		82	65 - 140	1	30
Isopropylbenzene	ND		50.0	48.5		ug/L		97	56 - 133	6	30
Methylene bromide	ND		50.0	48.7		ug/L		97	63 - 138	3	30
Methylene Chloride	ND		50.0	46.8		ug/L		94	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	185		ug/L		92	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	43.2		ug/L		86	59 - 137	1	30
m-Xylene & p-Xylene	ND		50.0	46.5		ug/L		93	57 - 130	5	30
Naphthalene	ND		50.0	46.4		ug/L		93	25 - 160	1	30
n-Butylbenzene	ND		50.0	52.8		ug/L		106	41 - 142	3	31
N-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	6	30
o-Chlorotoluene	ND		50.0	48.2		ug/L		96	53 - 134	3	30
o-Xylene	ND		50.0	46.3		ug/L		93	61 - 130	6	30
p-Chlorotoluene	ND		50.0	47.4		ug/L		95	54 - 133	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128764-A-2 MSD
Matrix: Water
Analysis Batch: 328230

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	50.1		ug/L		100	48 - 139	5	30
sec-Butylbenzene	ND		50.0	50.8		ug/L		102	50 - 138	5	30
Styrene	ND		50.0	47.2		ug/L		94	58 - 131	3	30
tert-Butylbenzene	ND		50.0	49.5		ug/L		99	54 - 146	5	30
1,1,1,2-Tetrachloroethane	ND		50.0	44.6		ug/L		89	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	66 - 135	3	30
Tetrachloroethene	ND		50.0	41.7		ug/L		83	52 - 133	3	30
Toluene	ND		50.0	47.0		ug/L		94	65 - 130	6	30
trans-1,2-Dichloroethene	ND		50.0	48.3		ug/L		97	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	41.7		ug/L		83	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	48.8		ug/L		98	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	47.4		ug/L		95	39 - 148	1	30
1,1,1-Trichloroethane	ND		50.0	46.2		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	46.8		ug/L		94	66 - 131	6	30
Trichloroethene	ND		50.0	49.6		ug/L		99	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	50.1		ug/L		100	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	48.2		ug/L		96	50 - 139	4	30
1,3,5-Trimethylbenzene	ND		50.0	48.3		ug/L		97	52 - 135	6	30
Vinyl acetate	ND		100	99.7		ug/L		100	26 - 160	7	33
Vinyl chloride	ND		50.0	44.4		ug/L		89	46 - 152	12	30
Xylenes, Total	ND		100	92.8		ug/L		93	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328073/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzenethiol	ND		10	1.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzoic acid	ND		30	7.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
Benzyl alcohol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/24/16 15:51	10/26/16 16:43	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/24/16 15:51	10/26/16 16:43	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/24/16 15:51	10/26/16 16:43	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chloroaniline	ND		10	3.4	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 16:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328073/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dibenzofuran	ND		10	0.52	ug/L		10/24/16 15:51	10/26/16 16:43	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Diethyl phthalate	ND		10	0.70	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/24/16 15:51	10/26/16 16:43	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/24/16 15:51	10/26/16 16:43	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/24/16 15:51	10/26/16 16:43	1
1,4-Dioxane	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
Hexachloroethane	ND		10	4.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
Indene	ND		10	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
Isophorone	ND		10	0.57	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Methylphenol	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Nitroaniline	ND		10	2.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
3-Nitroaniline	ND		10	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Nitroaniline	ND		10	2.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
Nitrobenzene	ND		10	0.55	ug/L		10/24/16 15:51	10/26/16 16:43	1
2-Nitrophenol	ND		10	0.65	ug/L		10/24/16 15:51	10/26/16 16:43	1
4-Nitrophenol	ND		10	2.1	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/24/16 15:51	10/26/16 16:43	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/24/16 15:51	10/26/16 16:43	1
Pentachlorophenol	ND		20	1.8	ug/L		10/24/16 15:51	10/26/16 16:43	1
Phenol	ND		10	2.6	ug/L		10/24/16 15:51	10/26/16 16:43	1
Pyridine	ND		10	3.2	ug/L		10/24/16 15:51	10/26/16 16:43	1
Quinoline	ND		10	6.0	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/24/16 15:51	10/26/16 16:43	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/24/16 15:51	10/26/16 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*34 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Nitrobenzene-d5	*73*		*27 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Phenol-d5	*65*		*10 - 120*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
Terphenyl-d14	*66*		*53 - 125*	*10/24/16 15:51*	*10/26/16 16:43*	*1*
2,4,6-Tribromophenol	*71*		*15 - 135*	*10/24/16 15:51*	*10/26/16 16:43*	*1*

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	22.9		ug/L		76	10 - 145
Benzoic acid	126	84.4		ug/L		67	10 - 120
Benzyl alcohol	30.0	26.2		ug/L		87	51 - 121
Bis(2-chloroethoxy)methane	30.0	27.7		ug/L		92	54 - 123
Bis(2-chloroethyl)ether	30.0	26.7		ug/L		89	47 - 120
bis (2-chloroisopropyl) ether	30.0	27.9		ug/L		93	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	26.7		ug/L		89	62 - 140
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132
Butyl benzyl phthalate	30.0	26.6		ug/L		89	51 - 150
4-Chloroaniline	30.0	22.1		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	23.0		ug/L		77	47 - 135
2-Chloronaphthalene	30.0	30.5		ug/L		102	24 - 150
2-Chlorophenol	30.0	25.2		ug/L		84	45 - 120
4-Chlorophenyl phenyl ether	30.0	29.7		ug/L		99	61 - 133
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131
Dibenzofuran	30.0	30.1		ug/L		100	62 - 124
3,3'-Dichlorobenzidine	40.0	36.4		ug/L		91	16 - 167
2,4-Dichlorophenol	30.0	27.1		ug/L		90	52 - 125
Diethyl phthalate	30.0	29.7		ug/L		99	55 - 140
2,4-Dimethylphenol	30.0	28.7		ug/L		96	52 - 121
Dimethyl phthalate	30.0	31.4		ug/L		105	50 - 133
Di-n-butyl phthalate	30.0	27.3		ug/L		91	59 - 144
4,6-Dinitro-ortho-cresol	60.0	61.2		ug/L		102	46 - 136
2,4-Dinitrophenol	101	87.1		ug/L		86	22 - 146
2,4-Dinitrotoluene	30.0	34.7		ug/L		116	54 - 141
2,6-Dinitrotoluene	30.0	32.0		ug/L		107	61 - 130
Di-n-octyl phthalate	30.0	29.7		ug/L		99	55 - 140
1,4-Dioxane	30.0	17.8		ug/L		59	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	32.2		ug/L		107	55 - 139
Hexachlorobenzene	30.0	27.3		ug/L		91	60 - 138
Hexachlorocyclopentadiene	30.0	25.1		ug/L		84	1 - 139
Hexachloroethane	30.0	23.9		ug/L		80	46 - 121
Indene	30.0	28.8		ug/L		96	17 - 141
Isophorone	30.0	28.4		ug/L		95	57 - 122
2-Methylphenol	30.0	29.0		ug/L		97	38 - 121
3 & 4 Methylphenol	30.0	27.0		ug/L		90	43 - 126
2-Nitroaniline	30.0	34.5		ug/L		115	52 - 135
3-Nitroaniline	30.0	29.2		ug/L		97	51 - 128
4-Nitroaniline	30.0	31.9		ug/L		106	38 - 141
Nitrobenzene	30.0	27.6		ug/L		92	52 - 128
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
4-Nitrophenol	60.0	68.8		ug/L		115	34 - 137
N-Nitrosodimethylamine	30.0	26.4		ug/L		88	21 - 134
N-Nitrosodi-n-propylamine	30.0	29.5		ug/L		98	41 - 143
N-Nitrosodiphenylamine	29.8	32.3		ug/L		109	10 - 185
Pentachlorophenol	60.0	49.2		ug/L		82	38 - 138
Phenol	30.0	24.7		ug/L		82	37 - 120
Pyridine	30.0	19.4		ug/L		65	10 - 127
Quinoline	30.0	22.8		ug/L		76	10 - 164

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	26.6		ug/L		89	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*65*		*10 - 120*
Nitrobenzene-d5	*84*		*27 - 120*
Phenol-d5	*75*		*10 - 120*
Terphenyl-d14	*85*		*53 - 125*
2,4,6-Tribromophenol	*92*		*15 - 135*

Lab Sample ID: LCS 400-328073/4-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	16.3		ug/L		54	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*34 - 120*
2-Fluorophenol	*66*		*10 - 120*
Nitrobenzene-d5	*80*		*27 - 120*
Phenol-d5	*72*		*10 - 120*
Terphenyl-d14	*81*		*53 - 125*
2,4,6-Tribromophenol	*82*		*15 - 135*

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	19.6		ug/L		65	10 - 145	16	30
Benzoic acid	126	71.3		ug/L		57	10 - 120	17	30
Benzyl alcohol	30.0	20.9		ug/L		70	51 - 121	23	30
Bis(2-chloroethoxy)methane	30.0	22.4		ug/L		75	54 - 123	21	30
Bis(2-chloroethyl)ether	30.0	22.0		ug/L		73	47 - 120	19	30
bis (2-chloroisopropyl) ether	30.0	22.3		ug/L		74	20 - 142	22	30
Bis(2-ethylhexyl) phthalate	30.0	22.2		ug/L		74	62 - 140	18	30
4-Bromophenyl phenyl ether	30.0	22.8		ug/L		76	62 - 132	20	30
Butyl benzyl phthalate	30.0	22.9		ug/L		76	51 - 150	15	30
4-Chloroaniline	30.0	18.6		ug/L		62	32 - 128	17	30
4-Chloro-3-methylphenol	30.0	22.3		ug/L		74	47 - 135	3	30
2-Chloronaphthalene	30.0	25.4		ug/L		85	24 - 150	18	30
2-Chlorophenol	30.0	21.4		ug/L		71	45 - 120	16	30
4-Chlorophenyl phenyl ether	30.0	25.6		ug/L		85	61 - 133	15	30
Dibenz[a,h]acridine	30.0	25.5		ug/L		85	60 - 131	10	30
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124	16	30
3,3'-Dichlorobenzidine	40.0	31.9		ug/L		80	16 - 167	13	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	30.0	22.7		ug/L		76	52 - 125	18	30
Diethyl phthalate	30.0	25.0		ug/L		83	55 - 140	17	30
2,4-Dimethylphenol	30.0	24.8		ug/L		83	52 - 121	15	30
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133	19	30
Di-n-butyl phthalate	30.0	22.9		ug/L		76	59 - 144	17	30
4,6-Dinitro-ortho-cresol	60.0	46.1		ug/L		77	46 - 136	28	30
2,4-Dinitrophenol	101	75.8		ug/L		75	22 - 146	14	30
2,4-Dinitrotoluene	30.0	29.4		ug/L		98	54 - 141	17	30
2,6-Dinitrotoluene	30.0	26.4		ug/L		88	61 - 130	19	30
Di-n-octyl phthalate	30.0	25.0		ug/L		83	55 - 140	17	30
1,4-Dioxane	30.0	18.3		ug/L		61	10 - 130	3	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.7	*	ug/L		76	55 - 139	35	30
Hexachlorobenzene	30.0	23.2		ug/L		77	60 - 138	16	30
Hexachlorocyclopentadiene	30.0	23.6		ug/L		79	1 - 139	6	30
Hexachloroethane	30.0	19.7		ug/L		66	46 - 121	19	30
Indene	30.0	22.7		ug/L		76	17 - 141	23	30
Isophorone	30.0	23.3		ug/L		78	57 - 122	20	30
2-Methylphenol	30.0	22.7		ug/L		76	38 - 121	24	30
3 & 4 Methylphenol	30.0	22.8		ug/L		76	43 - 126	17	30
2-Nitroaniline	30.0	28.6		ug/L		95	52 - 135	19	30
3-Nitroaniline	30.0	24.6		ug/L		82	51 - 128	17	30
4-Nitroaniline	30.0	26.2		ug/L		87	38 - 141	20	30
Nitrobenzene	30.0	22.7		ug/L		76	52 - 128	20	30
2-Nitrophenol	30.0	22.5		ug/L		75	47 - 129	13	30
4-Nitrophenol	60.0	59.0		ug/L		98	34 - 137	15	30
N-Nitrosodimethylamine	30.0	25.1		ug/L		84	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	25.0		ug/L		83	41 - 143	17	30
N-Nitrosodiphenylamine	29.8	23.5	*	ug/L		79	10 - 185	31	30
Pentachlorophenol	60.0	39.6		ug/L		66	38 - 138	22	30
Phenol	30.0	20.8		ug/L		69	37 - 120	17	30
Pyridine	30.0	18.5		ug/L		62	10 - 127	5	30
Quinoline	30.0	23.0		ug/L		77	10 - 164	1	30
2,4,5-Trichlorophenol	30.0	26.1		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	25.0		ug/L		83	52 - 131	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*67*		*10 - 120*
Nitrobenzene-d5	*74*		*27 - 120*
Phenol-d5	*72*		*10 - 120*
Terphenyl-d14	*76*		*53 - 125*
2,4,6-Tribromophenol	*85*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328073/5-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	3.77	J *	ug/L		13	20 - 150	125	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*82*		*27 - 120*
Phenol-d5	*74*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*86*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: LCS 400-328073/2-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	30.9		ug/L		103	41 - 120
Acenaphthylene	30.0	30.4		ug/L		101	44 - 120
Anthracene	30.0	30.3		ug/L		101	49 - 120
Benzo[a]anthracene	30.0	30.8		ug/L		103	61 - 135
Benzo[a]pyrene	30.0	29.5		ug/L		98	52 - 120
Benzo[b]fluoranthene	30.0	34.4		ug/L		115	53 - 134
Benzo[g,h,i]perylene	30.0	29.0		ug/L		97	47 - 133
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134
Chrysene	30.0	25.5		ug/L		85	55 - 122
Dibenz(a,h)anthracene	30.0	30.9		ug/L		103	48 - 146
Fluoranthene	30.0	30.1		ug/L		100	54 - 128
Fluorene	30.0	32.6		ug/L		109	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.8		ug/L		103	43 - 142
Phenanthrene	30.0	33.3		ug/L		111	48 - 120
Pyrene	30.0	29.7		ug/L		99	48 - 132
1-Methylnaphthalene	30.0	22.0		ug/L		73	41 - 120
2-Methylnaphthalene	30.0	22.1		ug/L		74	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*112*		*33 - 138*
2-Fluorobiphenyl	*95*		*15 - 122*
Nitrobenzene-d5	*89*		*19 - 130*

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	27.8		ug/L		93	41 - 120	10	56
Acenaphthylene	30.0	27.4		ug/L		91	44 - 120	10	56

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-328073/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	30.0	27.3		ug/L		91	49 - 120	10	51
Benzo[a]anthracene	30.0	28.2		ug/L		94	61 - 135	9	49
Benzo[a]pyrene	30.0	26.9		ug/L		90	52 - 120	9	50
Benzo[b]fluoranthene	30.0	31.7		ug/L		106	53 - 134	8	54
Benzo[g,h,i]perylene	30.0	27.2		ug/L		91	47 - 133	6	50
Benzo[k]fluoranthene	30.0	24.1		ug/L		80	57 - 134	9	52
Chrysene	30.0	23.3		ug/L		78	55 - 122	9	50
Dibenz(a,h)anthracene	30.0	29.8		ug/L		99	48 - 146	4	50
Fluoranthene	30.0	27.2		ug/L		91	54 - 128	10	52
Fluorene	30.0	29.8		ug/L		99	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	30.0	29.3		ug/L		98	43 - 142	5	51
Phenanthrene	30.0	29.7		ug/L		99	48 - 120	11	56
Pyrene	30.0	27.2		ug/L		91	48 - 132	9	52
1-Methylnaphthalene	30.0	21.6		ug/L		72	41 - 120	2	55
2-Methylnaphthalene	30.0	21.5		ug/L		72	32 - 124	3	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*99*		*33 - 138*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*83*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327995/1-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:45	10/24/16 19:41	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:45	10/24/16 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/24/16 09:45*	*10/24/16 19:41*	*1*

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0984		ug/L		98	60 - 140
1,2-Dibromoethane	0.100	0.0850		ug/L		85	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*118*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0966		ug/L		97	60 - 140	2	30
1,2-Dibromoethane	0.100	0.0913		ug/L		91	60 - 140	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*128*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES_____

Print Bill To Contact Name: Bob Billman

PO #: 60477387 - 1.03.004 / 1.03.0044

PlaNet Site or Project ID: 25278

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10-17-16

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID:

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher, K. Walkowska

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- Please include "J" values on Reports
- Please provide sample receipt upon login

☑ SHELL CONTRACT RATE APPLIES

☐ STATE REIMBURSEMENT RATE APPLIES

☐ EDD NOT NEEDED

☑ RECEIPT VERIFICATION REQUESTED

☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60477387 - 1.03.0044: VOC 8011	PAH 8270LL	NON-UNIT COST 60477387 - 1.03.004: VOC 8260	SVOC 8270
	TB-ROX-101716-8260	10-17-16	0000	water	X					2			X	
	TB-ROX-101716-8011	10-17-16	0000	water	X					2	X			
	MW22-ROX-101716	10-17-16	925	water	4			2		6	X	X	X	X
	MW22-ROX-101716-DUP	10-17-16	925	water	4			2		6	X	X	X	X

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

400-123848 COC

Samuel Fisher

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Samuel Fisher	FedEx	10-17-16	1730
Relinquished by (Signature)	Received by (Signature)	Date	Time
		10-19-16	0911
		Date	Time

Version 14Dec15

Ref:

Dep:

Date: 28Jul16

Wgt: 10.00 LBS

DV: 0.00

SHIPPING: 0.00

SPECIAL: 0.00

HANDLING: 0.00

TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 6546 8387 7610

2-8, 2-8, 4-5 IR-5

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11/2/2016

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128848-1
SDG Number: 60477387-1.03.0044/1.03.004

Login Number: 128848
List Number: 1
Creator: Franklin, Justin H

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8, 2.8, 4.5°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128848-1
SDG: 60477387-1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128900-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/2/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101816-8260	TB-ROX-101816-8011
P57-ROX-101816	P58-ROX-101816

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 several SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs were outside evaluation criteria. The SVOC surrogate recovery for terphenyl-d_{14} was outside criteria in sample P58-ROX-101816. Samples were diluted to bring analyte concentrations within calibration range. Additionally, the continuing calibration verification for 4-nitrophenol, diethyl phthalate, benzyl alcohol, and n-nitrosodi-n-propylamine exceeded evaluation criteria biased low. These issues are addressed further in the appropriate sections below.

The continuing calibration verification for hexachlorobenzene 2-nitrophenol, and benzo[b]fluoranthene exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 0.4°C, which is outside the 4°C ± 2°C criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

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
LCS/LCSD 400-328209/2-A/3-A	SVOCs	Benzoic acid	30/**9**	**111**	10-120/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	Benzyl alcohol	83/58	**36**	51-121/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	2-Chloronaphthalene	103/74	**32**	24-150/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	4,6-Dinitro-ortho-cresol	74/**34**	**73**	46-136/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	2,4-Dinitrophenol	53/22	**82**	22-146/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	Hexachlorocyclopentadiene	65/24	**94**	1-139/30
LCS/LCSD 400-328209/2-A/3-A	SVOCs	4-Nitroaniline	106/**2**	**193**	38-141/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification if LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
P57-ROX-101816	SVOCs	Benzoic acid	**UJ**
P57-ROX-101816	SVOCs	4,6-Dinitro-ortho-cresol	**UJ**
P57-ROX-101816	SVOCs	4-Nitroaniline	**UJ**
P58-ROX-101816	SVOCs	Benzoic acid	**UJ**
P58-ROX-101816	SVOCs	4,6-Dinitro-ortho-cresol	**UJ**
P58-ROX-101816	SVOCs	4-Nitroaniline	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P58-ROX-101816	SVOCs	Terphenyl-d_{14}	**51**	53-125

Qualifications due to surrogate recoveries were not required due to only one of three base/neutral fraction surrogate recoveries being outside evaluation criteria in sample P58-ROX-101816. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for 4-nitrophenol, diethyl phthalate, benzyl alcohol, and n-nitrosodi-n-propylamine was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P57-ROX-101816	SVOCs	Benzyl alcohol	-	**UJ**
P57-ROX-101816	SVOCs	Diethyl phthalate	-	**UJ**
P57-ROX-101816	SVOCs	4-Nitrophenol	-	**UJ**
P57-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	**UJ**
P58-ROX-101816	SVOCs	Benzyl alcohol	-	**UJ**
P58-ROX-101816	SVOCs	Diethyl phthalate	-	**UJ**
P58-ROX-101816	SVOCs	4-Nitrophenol	-	**UJ**
P58-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	**UJ**

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128900-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn M. Hooper

Authorized for release by:
11/14/2016 10:21:12 AM

Carolyn Hooper, Project Manager I
(850)471-6226
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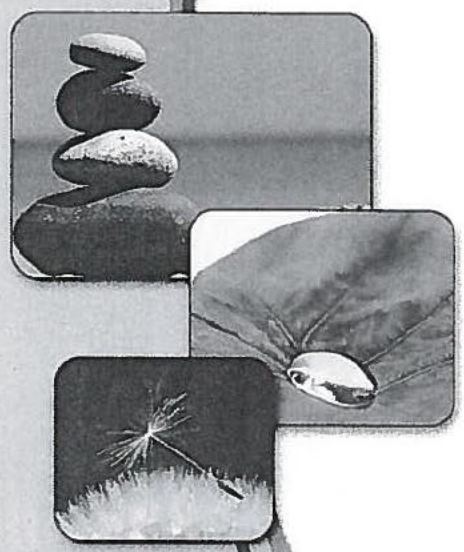

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Reviewed 12/2/2016

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-128900-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128900-1

Receipt
The samples were received on 10/19/2016 8:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4°C.

GC/MS VOA
Method 8260B: The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-328744 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328744 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101816-8260 (400-128900-1), P57-ROX-101816 (400-128900-3) and P58-ROX-101816 (400-128900-4). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: P58-ROX-101816 (400-128900-4). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-329509 recovered outside acceptance criteria, low biased, for 4-Nitrophenol, Diethyl phthalate, Benzyl alcohol and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The continuing calibration verification (CCV) associated with batch 400-329509 recovered above the upper control limit for Hexachlorobenzene and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: P57-ROX-101816 (400-128900-3) and P58-ROX-101816 (400-128900-4).

The following analyte recovered outside control limits for the LCSD associated with 4,6-Dinitro-2-methylphenol, Benzoic acid and 4-Nitroaniline: 4,6-Dinitro-2-methylphenol, Benzoic acid and 4-Nitroaniline. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 400-328209 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, Hexachlorocyclopentadiene, 2-Chloronaphthalene and Benzyl alcohol.

The continuing calibration verification (CCV) analyzed in batch 400-329509 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Diethyl phthalate, N-Nitrosodi-n-propylamine and Benzyl alcohol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The following samples was diluted to bring the concentration of target analytes within the calibration range: P57-ROX-101816 (400-128900-3) and P58-ROX-101816 (400-128900-4). Elevated reporting limits (RLs) are provided.

Job ID: 400-128900-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 400-328286 recovered above the upper control limit for Benzo[b]fluoranthene The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: P57-ROX-101816 (400-128900-3), P58-ROX-101816 (400-128900-4) and (400-128902-E-1-A).

The following sample was diluted to bring the concentration of target analytes within the calibration range: P58-ROX-101816 (400-128900-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128900-1	TB-ROX-101816-8260	Water	10/18/16 00:00	10/19/16 08:19
400-128900-2	TB-ROX-101816-8011	Water	10/18/16 00:00	10/19/16 08:19
400-128900-3	P57-ROX-101816	Water	10/18/16 10:55	10/19/16 08:19
400-128900-4	P58-ROX-101816	Water	10/18/16 13:15	10/19/16 08:19

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260

Lab Sample ID: 400-128900-1

No Detections.

Client Sample ID: TB-ROX-101816-8011

Lab Sample ID: 400-128900-2

No Detections.

Client Sample ID: P57-ROX-101816

Lab Sample ID: 400-128900-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	71000		500	190	ug/L	500		8260B	Total/NA
Ethylbenzene	300	J	500	250	ug/L	500		8260B	Total/NA
Acenaphthene	0.58		0.20	0.020	ug/L	1		8270D LL	Total/NA
Acenaphthylene	0.13	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Anthracene	0.032	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.64		0.20	0.021	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.64		0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	27		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	37		0.20	0.020	ug/L	1		8270D LL	Total/NA
Dibenzofuran	0.54	J	10	0.52	ug/L	1		8270D	Total/NA
Indene	1.3	J	10	1.0	ug/L	1		8270D	Total/NA
Phenol	1100		200	52	ug/L	20		8270D	Total/NA

Client Sample ID: P58-ROX-101816

Lab Sample ID: 400-128900-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	340000		2000	760	ug/L	2000		8260B	Total/NA
Acenaphthene	0.51	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
Acenaphthylene	0.21	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
Fluorene	0.94	J	0.98	0.10	ug/L	5		8270D LL	Total/NA
Phenanthrene	0.87	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
Pyrene	0.18	J	0.98	0.098	ug/L	5		8270D LL	Total/NA
1-Methylnaphthalene	42		0.98	0.098	ug/L	5		8270D LL	Total/NA
2-Methylnaphthalene	52		0.98	0.098	ug/L	5		8270D LL	Total/NA
Dibenzofuran	1.4	J	9.8	0.51	ug/L	1		8270D	Total/NA
Indene	1.4	J	9.8	0.98	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	3.4	J	20	1.0	ug/L	1		8270D	Total/NA
Phenol	600		98	25	ug/L	10		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 21:11	1
Acrolein	ND		20	10	ug/L			10/28/16 21:11	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 21:11	1
Benzene	ND		1.0	0.38	ug/L			10/28/16 21:11	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 21:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 21:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 21:11	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 21:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 21:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 21:11	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 21:11	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 21:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 21:11	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 21:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 21:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 21:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 21:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 21:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 21:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 21:11	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 21:11	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 21:11	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 21:11	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 21:11	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 21:11	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/16 21:11	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 21:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 21:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 21:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 21:11	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/16 21:11	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 21:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 21:11	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 21:11	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 21:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 21:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 21:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 21:11	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 21:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 21:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 21:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 21:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 21:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 21:11	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 21:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 21:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 21:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 21:11	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 21:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 21:11	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/16 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/28/16 21:11*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*10/28/16 21:11*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/28/16 21:11*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8011
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:45	10/25/16 01:37	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:45	10/25/16 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*		*51 - 149*	*10/24/16 09:45*	*10/25/16 01:37*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P57-ROX-101816
Date Collected: 10/18/16 10:55
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		13000	5000	ug/L			10/28/16 21:34	500
Acrolein	ND		10000	5000	ug/L			10/28/16 21:34	500
Acrylonitrile	ND		5000	1400	ug/L			10/28/16 21:34	500
Benzene	**71000**		500	190	ug/L			10/28/16 21:34	500
Bromobenzene	ND		500	270	ug/L			10/28/16 21:34	500
Bromochloromethane	ND		500	260	ug/L			10/28/16 21:34	500
Bromodichloromethane	ND		500	250	ug/L			10/28/16 21:34	500
Bromoform	ND		2500	360	ug/L			10/28/16 21:34	500
Bromomethane	ND		500	490	ug/L			10/28/16 21:34	500
2-Butanone (MEK)	ND		13000	1300	ug/L			10/28/16 21:34	500
Carbon disulfide	ND		500	250	ug/L			10/28/16 21:34	500
Carbon tetrachloride	ND		500	250	ug/L			10/28/16 21:34	500
Chlorobenzene	ND		500	250	ug/L			10/28/16 21:34	500
Dibromochloromethane	ND		500	250	ug/L			10/28/16 21:34	500
Chloroethane	ND		500	380	ug/L			10/28/16 21:34	500
2-Chloroethyl vinyl ether	ND		2500	1000	ug/L			10/28/16 21:34	500
Chloroform	ND		500	300	ug/L			10/28/16 21:34	500
1-Chlorohexane	ND		500	350	ug/L			10/28/16 21:34	500
Chloromethane	ND		500	420	ug/L			10/28/16 21:34	500
cis-1,2-Dichloroethene	ND		500	250	ug/L			10/28/16 21:34	500
cis-1,3-Dichloropropene	ND		2500	250	ug/L			10/28/16 21:34	500
1,2-Dichlorobenzene	ND		500	250	ug/L			10/28/16 21:34	500
1,3-Dichlorobenzene	ND		500	270	ug/L			10/28/16 21:34	500
1,4-Dichlorobenzene	ND		500	320	ug/L			10/28/16 21:34	500
Dichlorodifluoromethane	ND		500	430	ug/L			10/28/16 21:34	500
1,1-Dichloroethane	ND		500	250	ug/L			10/28/16 21:34	500
1,2-Dichloroethane	ND		500	250	ug/L			10/28/16 21:34	500
1,1-Dichloroethene	ND		500	250	ug/L			10/28/16 21:34	500
1,2-Dichloropropane	ND		500	250	ug/L			10/28/16 21:34	500
1,3-Dichloropropane	ND		500	250	ug/L			10/28/16 21:34	500
2,2-Dichloropropane	ND		500	250	ug/L			10/28/16 21:34	500
1,1-Dichloropropene	ND		500	250	ug/L			10/28/16 21:34	500
Ethylbenzene	**300**	**J**	500	250	ug/L			10/28/16 21:34	500
Ethyl methacrylate	ND		500	300	ug/L			10/28/16 21:34	500
Hexachlorobutadiene	ND		2500	450	ug/L			10/28/16 21:34	500
2-Hexanone	ND		13000	1600	ug/L			10/28/16 21:34	500
Isopropylbenzene	ND		500	270	ug/L			10/28/16 21:34	500
Methylene bromide	ND		2500	300	ug/L			10/28/16 21:34	500
Methylene Chloride	ND		2500	1500	ug/L			10/28/16 21:34	500
4-Methyl-2-pentanone (MIBK)	ND		13000	900	ug/L			10/28/16 21:34	500
Methyl tert-butyl ether	ND		500	370	ug/L			10/28/16 21:34	500
m-Xylene & p-Xylene	ND		2500	800	ug/L			10/28/16 21:34	500
Naphthalene	ND		500	500	ug/L			10/28/16 21:34	500
n-Butylbenzene	ND		500	380	ug/L			10/28/16 21:34	500
N-Propylbenzene	ND		500	350	ug/L			10/28/16 21:34	500
o-Chlorotoluene	ND		500	290	ug/L			10/28/16 21:34	500
o-Xylene	ND		2500	300	ug/L			10/28/16 21:34	500
p-Chlorotoluene	ND		500	280	ug/L			10/28/16 21:34	500
p-Isopropyltoluene	ND		500	360	ug/L			10/28/16 21:34	500

Client Sample ID: P57-ROX-101816
Date Collected: 10/18/16 10:55
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		500	350	ug/L			10/28/16 21:34	500
Styrene	ND		500	500	ug/L			10/28/16 21:34	500
tert-Butylbenzene	ND		500	320	ug/L			10/28/16 21:34	500
1,1,1,2-Tetrachloroethane	ND		500	260	ug/L			10/28/16 21:34	500
1,1,2,2-Tetrachloroethane	ND		500	250	ug/L			10/28/16 21:34	500
Tetrachloroethene	ND		500	290	ug/L			10/28/16 21:34	500
Toluene	ND		500	350	ug/L			10/28/16 21:34	500
trans-1,2-Dichloroethene	ND		500	250	ug/L			10/28/16 21:34	500
trans-1,3-Dichloropropene	ND		2500	250	ug/L			10/28/16 21:34	500
1,2,3-Trichlorobenzene	ND		500	350	ug/L			10/28/16 21:34	500
1,2,4-Trichlorobenzene	ND		500	410	ug/L			10/28/16 21:34	500
1,1,1-Trichloroethane	ND		500	250	ug/L			10/28/16 21:34	500
1,1,2-Trichloroethane	ND		2500	250	ug/L			10/28/16 21:34	500
Trichloroethene	ND		500	250	ug/L			10/28/16 21:34	500
Trichlorofluoromethane	ND		500	260	ug/L			10/28/16 21:34	500
1,2,3-Trichloropropane	ND		2500	420	ug/L			10/28/16 21:34	500
1,2,4-Trimethylbenzene	ND		500	410	ug/L			10/28/16 21:34	500
1,3,5-Trimethylbenzene	ND		500	280	ug/L			10/28/16 21:34	500
Vinyl acetate	ND		13000	1000	ug/L			10/28/16 21:34	500
Vinyl chloride	ND		500	250	ug/L			10/28/16 21:34	500
Xylenes, Total	ND		5000	800	ug/L			10/28/16 21:34	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/28/16 21:34*	*500*
Dibromofluoromethane	*105*		*81 - 121*		*10/28/16 21:34*	*500*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/28/16 21:34*	*500*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.58		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
Acenaphthylene	0.13	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
Anthracene	0.032	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
Fluorene	0.64		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 20:33	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:33	1
Phenanthrene	0.64		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
1-Methylnaphthalene	27		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1
2-Methylnaphthalene	37		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*33 - 138*	*10/25/16 13:53*	*10/26/16 20:33*	*1*
2-Fluorobiphenyl	*70*		*15 - 122*	*10/25/16 13:53*	*10/26/16 20:33*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P57-ROX-101816
Date Collected: 10/18/16 10:55
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		19 - 130	10/25/16 13:53	10/26/16 20:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 20:10	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	11/03/16 20:10	1
Benzoic acid	ND	UJ	30	7.3	ug/L		10/25/16 13:53	11/03/16 20:10	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 20:10	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	11/03/16 20:10	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	11/03/16 20:10	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	11/03/16 20:10	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 20:10	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 20:10	1
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Dibenzofuran	**0.54**	J	10	0.52	ug/L		10/25/16 13:53	11/03/16 20:10	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Diethyl phthalate	ND	UJ	10	0.70	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 20:10	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	11/03/16 20:10	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	11/03/16 20:10	1
4,6-Dinitro-ortho-cresol	ND	UJ	10	2.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 20:10	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/25/16 13:53	11/03/16 20:10	1
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	11/03/16 20:10	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	11/03/16 20:10	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	11/03/16 20:10	1
Indene	**1.3**	J	10	1.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	11/03/16 20:10	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 20:10	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 20:10	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Nitroaniline	ND	UJ	10	2.5	ug/L		10/25/16 13:53	11/03/16 20:10	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	11/03/16 20:10	1
2-Nitrophenol	ND		10	0.65	ug/L		10/25/16 13:53	11/03/16 20:10	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		10/25/16 13:53	11/03/16 20:10	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 20:10	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P57-ROX-101816
Date Collected: 10/18/16 10:55
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine UJ	ND		10	3.3	ug/L		10/25/16 13:53	11/03/16 20:10	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	11/03/16 20:10	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 20:10	1
Phenol	1100		200	52	ug/L		10/25/16 13:53	11/09/16 14:37	20
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	11/03/16 20:10	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	11/03/16 20:10	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 120*	*10/25/16 13:53*	*11/03/16 20:10*	*1*
2-Fluorophenol	*39*		*10 - 120*	*10/25/16 13:53*	*11/03/16 20:10*	*1*
Nitrobenzene-d5	*55*		*27 - 120*	*10/25/16 13:53*	*11/03/16 20:10*	*1*
Phenol-d5	*31*		*10 - 120*	*10/25/16 13:53*	*11/03/16 20:10*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/25/16 13:53*	*11/03/16 20:10*	*1*
2,4,6-Tribromophenol	*113*		*15 - 135*	*10/25/16 13:53*	*11/03/16 20:10*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/24/16 09:45	10/25/16 02:07	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 09:45	10/25/16 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*138*		*51 - 149*	*10/24/16 09:45*	*10/25/16 02:07*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P58-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			10/28/16 21:57	2000
Acrolein	ND		40000	20000	ug/L			10/28/16 21:57	2000
Acrylonitrile	ND		20000	5600	ug/L			10/28/16 21:57	2000
Benzene	340000		2000	760	ug/L			10/28/16 21:57	2000
Bromobenzene	ND		2000	1100	ug/L			10/28/16 21:57	2000
Bromochloromethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
Bromodichloromethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
Bromoform	ND		10000	1400	ug/L			10/28/16 21:57	2000
Bromomethane	ND		2000	2000	ug/L			10/28/16 21:57	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			10/28/16 21:57	2000
Carbon disulfide	ND		2000	1000	ug/L			10/28/16 21:57	2000
Carbon tetrachloride	ND		2000	1000	ug/L			10/28/16 21:57	2000
Chlorobenzene	ND		2000	1000	ug/L			10/28/16 21:57	2000
Dibromochloromethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
Chloroethane	ND		2000	1500	ug/L			10/28/16 21:57	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			10/28/16 21:57	2000
Chloroform	ND		2000	1200	ug/L			10/28/16 21:57	2000
1-Chlorohexane	ND		2000	1400	ug/L			10/28/16 21:57	2000
Chloromethane	ND		2000	1700	ug/L			10/28/16 21:57	2000
cis-1,2-Dichloroethene	ND		2000	1000	ug/L			10/28/16 21:57	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			10/28/16 21:57	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			10/28/16 21:57	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			10/28/16 21:57	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			10/28/16 21:57	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,2-Dichloroethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			10/28/16 21:57	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,1-Dichloropropene	ND		2000	1000	ug/L			10/28/16 21:57	2000
Ethylbenzene	ND		2000	1000	ug/L			10/28/16 21:57	2000
Ethyl methacrylate	ND		2000	1200	ug/L			10/28/16 21:57	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			10/28/16 21:57	2000
2-Hexanone	ND		50000	6200	ug/L			10/28/16 21:57	2000
Isopropylbenzene	ND		2000	1100	ug/L			10/28/16 21:57	2000
Methylene bromide	ND		10000	1200	ug/L			10/28/16 21:57	2000
Methylene Chloride	ND		10000	6000	ug/L			10/28/16 21:57	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			10/28/16 21:57	2000
Methyl tert-butyl ether	ND		2000	1500	ug/L			10/28/16 21:57	2000
m-Xylene & p-Xylene	ND		10000	3200	ug/L			10/28/16 21:57	2000
Naphthalene	ND		2000	2000	ug/L			10/28/16 21:57	2000
n-Butylbenzene	ND		2000	1500	ug/L			10/28/16 21:57	2000
N-Propylbenzene	ND		2000	1400	ug/L			10/28/16 21:57	2000
o-Chlorotoluene	ND		2000	1100	ug/L			10/28/16 21:57	2000
o-Xylene	ND		10000	1200	ug/L			10/28/16 21:57	2000
p-Chlorotoluene	ND		2000	1100	ug/L			10/28/16 21:57	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			10/28/16 21:57	2000

Client Sample ID: P58-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2000	1400	ug/L			10/28/16 21:57	2000
Styrene	ND		2000	2000	ug/L			10/28/16 21:57	2000
tert-Butylbenzene	ND		2000	1300	ug/L			10/28/16 21:57	2000
1,1,1,2-Tetrachloroethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
Tetrachloroethene	ND		2000	1200	ug/L			10/28/16 21:57	2000
Toluene	ND		2000	1400	ug/L			10/28/16 21:57	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			10/28/16 21:57	2000
trans-1,3-Dichloropropene	ND		10000	1000	ug/L			10/28/16 21:57	2000
1,2,3-Trichlorobenzene	ND		2000	1400	ug/L			10/28/16 21:57	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			10/28/16 21:57	2000
1,1,1-Trichloroethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,1,2-Trichloroethane	ND		10000	1000	ug/L			10/28/16 21:57	2000
Trichloroethene	ND		2000	1000	ug/L			10/28/16 21:57	2000
Trichlorofluoromethane	ND		2000	1000	ug/L			10/28/16 21:57	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			10/28/16 21:57	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			10/28/16 21:57	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			10/28/16 21:57	2000
Vinyl acetate	ND		50000	4000	ug/L			10/28/16 21:57	2000
Vinyl chloride	ND		2000	1000	ug/L			10/28/16 21:57	2000
Xylenes, Total	ND		20000	3200	ug/L			10/28/16 21:57	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/28/16 21:57*	*2000*
Dibromofluoromethane	*106*		*81 - 121*		*10/28/16 21:57*	*2000*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/28/16 21:57*	*2000*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.51	J	0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
Acenaphthylene	0.21	J	0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
Anthracene	ND		0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
Benzo[a]anthracene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Benzo[a]pyrene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Benzo[b]fluoranthene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Benzo[g,h,i]perylene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Benzo[k]fluoranthene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Chrysene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Dibenz(a,h)anthracene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Fluoranthene	ND		0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
Fluorene	0.94	J	0.98	0.10	ug/L		10/25/16 13:53	10/26/16 20:59	5
Indeno[1,2,3-cd]pyrene	ND		0.98	0.20	ug/L		10/25/16 13:53	10/26/16 20:59	5
Phenanthrene	0.87	J	0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
Pyrene	0.18	J	0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
1-Methylnaphthalene	42		0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5
2-Methylnaphthalene	52		0.98	0.098	ug/L		10/25/16 13:53	10/26/16 20:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*43*		*33 - 138*	*10/25/16 13:53*	*10/26/16 20:59*	*5*
2-Fluorobiphenyl	*68*		*15 - 122*	*10/25/16 13:53*	*10/26/16 20:59*	*5*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P58-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		19 - 130	10/25/16 13:53	10/26/16 20:59	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/25/16 13:53	11/03/16 20:40	1
Benzenethiol	ND		9.8	1.7	ug/L		10/25/16 13:53	11/03/16 20:40	1
Benzoic acid	ND	UJ	29	7.1	ug/L		10/25/16 13:53	11/03/16 20:40	1
Benzyl alcohol	ND	UJ	9.8	2.0	ug/L		10/25/16 13:53	11/03/16 20:40	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/25/16 13:53	11/03/16 20:40	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/25/16 13:53	11/03/16 20:40	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/25/16 13:53	11/03/16 20:40	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.2	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/25/16 13:53	11/03/16 20:40	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/25/16 13:53	11/03/16 20:40	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/25/16 13:53	11/03/16 20:40	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/25/16 13:53	11/03/16 20:40	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/25/16 13:53	11/03/16 20:40	1
Dibenzofuran	1.4	J	9.8	0.51	ug/L		10/25/16 13:53	11/03/16 20:40	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/25/16 13:53	11/03/16 20:40	1
Diethyl phthalate	ND	UJ	9.8	0.68	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 20:40	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/25/16 13:53	11/03/16 20:40	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/25/16 13:53	11/03/16 20:40	1
4,6-Dinitro-ortho-cresol	ND	UJ	9.8	2.0	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/25/16 13:53	11/03/16 20:40	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/25/16 13:53	11/03/16 20:40	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/25/16 13:53	11/03/16 20:40	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/25/16 13:53	11/03/16 20:40	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/25/16 13:53	11/03/16 20:40	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/25/16 13:53	11/03/16 20:40	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/25/16 13:53	11/03/16 20:40	1
Indene	1.4	J	9.8	0.98	ug/L		10/25/16 13:53	11/03/16 20:40	1
Isophorone	ND		9.8	0.56	ug/L		10/25/16 13:53	11/03/16 20:40	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/25/16 13:53	11/03/16 20:40	1
3 & 4 Methylphenol	3.4	J	20	1.0	ug/L		10/25/16 13:53	11/03/16 20:40	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/25/16 13:53	11/03/16 20:40	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Nitroaniline	ND	UJ	9.8	2.4	ug/L		10/25/16 13:53	11/03/16 20:40	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/25/16 13:53	11/03/16 20:40	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/25/16 13:53	11/03/16 20:40	1
4-Nitrophenol	ND	UJ	9.8	2.0	ug/L		10/25/16 13:53	11/03/16 20:40	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 20:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P58-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128900-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	9.8	3.2	ug/L		10/25/16 13:53	11/03/16 20:40	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/25/16 13:53	11/03/16 20:40	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 20:40	1
Phenol	600		98	25	ug/L		10/25/16 13:53	11/09/16 15:11	10
Pyridine	ND		9.8	3.1	ug/L		10/25/16 13:53	11/03/16 20:40	1
Quinoline	ND		9.8	5.9	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/25/16 13:53	11/03/16 20:40	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 120*	*10/25/16 13:53*	*11/03/16 20:40*	*1*
2-Fluorophenol	*37*		*10 - 120*	*10/25/16 13:53*	*11/03/16 20:40*	*1*
Nitrobenzene-d5	*61*		*27 - 120*	*10/25/16 13:53*	*11/03/16 20:40*	*1*
Phenol-d5	*37*		*10 - 120*	*10/25/16 13:53*	*11/03/16 20:40*	*1*
Terphenyl-d14	*51*	*X*	*53 - 125*	*10/25/16 13:53*	*11/03/16 20:40*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*10/25/16 13:53*	*11/03/16 20:40*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 09:45	10/25/16 02:36	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 09:45	10/25/16 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*143*		*51 - 149*	*10/24/16 09:45*	*10/25/16 02:36*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128851-A-1 MS	Matrix Spike	93	106	100
400-128851-A-1 MSD	Matrix Spike Duplicate	89	108	101
400-128900-1	TB-ROX-101816-8260	90	107	107
400-128900-3	P57-ROX-101816	92	105	106
400-128900-4	P58-ROX-101816	93	106	107
LCS 400-328744/1002	Lab Control Sample	93	109	102
MB 400-328744/4	Method Blank	92	105	106

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128900-3	P57-ROX-101816	60	39	55	31	71	113
400-128900-4	P58-ROX-101816	63	37	61	37	51 X	107
400-128902-C-1-A MS	Matrix Spike	75	35	71	56	107	116
400-128902-C-1-B MSD	Matrix Spike Duplicate	75	49	72	60	99	118
400-128903-E-3-B MS	Matrix Spike	75	35	71	56	107	116
400-128903-E-3-C MSD	Matrix Spike Duplicate	75	49	72	60	99	118
LCS 400-328209/2-A	Lab Control Sample	99	73	83	80	90	97
LCS 400-328209/4-A	Lab Control Sample	70	62	77	62	84	79
LCSD 400-328209/3-A	Lab Control Sample Dup	70	56	66	66	108	82
LCSD 400-328209/5-A	Lab Control Sample Dup	70	51	71	61	89	82
MB 400-328209/1-A	Method Blank	79	71	76	74	79	86

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128900-3	P57-ROX-101816	61	70	82
400-128900-4	P58-ROX-101816	43	68	88
400-128902-C-1-A MS	Matrix Spike	96	90	102
400-128902-C-1-B MSD	Matrix Spike Duplicate	78	88	98
400-128903-E-3-B MS	Matrix Spike	19 X	18	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	**Client Sample ID**	**(33-138)**	**(15-122)**	**(19-130)**
400-128903-E-3-C MSD	Matrix Spike Duplicate	16 X	18	20
LCS 400-328209/2-A	Lab Control Sample	114	96	90
LCSD 400-328209/3-A	Lab Control Sample Dup	110	82	78
MB 400-328209/1-A	Method Blank	119	100	113

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	**Client Sample ID**	**(51-149)**
400-128900-2	TB-ROX-101816-8011	125
400-128900-3	P57-ROX-101816	138
400-128900-4	P58-ROX-101816	143
LCS 400-327995/2-A	Lab Control Sample	118
LCSD 400-327995/3-A	Lab Control Sample Dup	128
MB 400-327995/1-A	Method Blank	141

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101816-8260

Lab Sample ID: 400-128900-1

Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328744	10/28/16 21:11	RS	TAL PEN

Client Sample ID: TB-ROX-101816-8011

Lab Sample ID: 400-128900-2

Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.8 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 01:37	KH1	TAL PEN

Client Sample ID: P57-ROX-101816

Lab Sample ID: 400-128900-3

Date Collected: 10/18/16 10:55
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	5 mL	5 mL	328744	10/28/16 21:34	RS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 20:10	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		20			330379	11/09/16 14:37	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 20:33	VC1	TAL PEN
Total/NA	Prep	8011			34 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 02:07	KH1	TAL PEN

Client Sample ID: P58-ROX-101816

Lab Sample ID: 400-128900-4

Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2000	5 mL	5 mL	328744	10/28/16 21:57	RS	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 20:40	KJA	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		10			330379	11/09/16 15:11	MAM	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 20:59	VC1	TAL PEN
Total/NA	Prep	8011			34.2 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/25/16 02:36	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327995/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 19:41	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328209/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 22:53	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 16:17	VC1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328744/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328744	10/28/16 12:25	RS	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:10	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 23:27	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 16:42	VC1	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-328209/4-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/27/16 00:34	DHW	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-328744/1002**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328744	10/28/16 11:23	RS	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-327995/3-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327995	10/24/16 09:45	KH1	TAL PEN
Total/NA	Analysis	8011		1			328117	10/24/16 20:40	KH1	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-328209/3-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328902	10/30/16 20:17	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 17:08	VC1	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-328209/5-A**
Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/27/16 01:08	DHW	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-128851-A-1 MS**
Date Collected: 10/17/16 15:40
Date Received: 10/18/16 12:53
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328744	10/28/16 14:16	RS	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128851-A-1 MSD

Date Collected: 10/17/16 15:40
Date Received: 10/18/16 12:53

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328744	10/28/16 14:39	RS	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128902-C-1-A MS

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 16:39	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 17:34	VC1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128902-C-1-B MSD

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 17:10	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 17:59	VC1	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-128903-E-3-B MS

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 16:39	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 17:34	VC1	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-128903-E-3-C MSD

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 17:10	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 17:59	VC1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-1	TB-ROX-101816-8260	Total/NA	Water	8260B	
400-128900-3	P57-ROX-101816	Total/NA	Water	8260B	
400-128900-4	P58-ROX-101816	Total/NA	Water	8260B	
MB 400-328744/4	Method Blank	Total/NA	Water	8260B	
LCS 400-328744/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128851-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-128851-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 328209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-3	P57-ROX-101816	Total/NA	Water	3520C	
400-128900-4	P58-ROX-101816	Total/NA	Water	3520C	
MB 400-328209/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-328209/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-328209/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	
400-128902-C-1-A MS	Matrix Spike	Total/NA	Water	3520C	
400-128902-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	
400-128903-E-3-B MS	Matrix Spike	Total/NA	Water	3520C	
400-128903-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 328286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-3	P57-ROX-101816	Total/NA	Water	8270D LL	328209
400-128900-4	P58-ROX-101816	Total/NA	Water	8270D LL	328209
MB 400-328209/1-A	Method Blank	Total/NA	Water	8270D LL	328209
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	8270D LL	328209
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	328209
400-128902-C-1-A MS	Matrix Spike	Total/NA	Water	8270D LL	328209
400-128902-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D LL	328209
400-128903-E-3-B MS	Matrix Spike	Total/NA	Water	8270D LL	328209
400-128903-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D LL	328209

Analysis Batch: 328374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-328209/1-A	Method Blank	Total/NA	Water	8270D	328209
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	8270D	328209
LCS 400-328209/4-A	Lab Control Sample	Total/NA	Water	8270D	328209
LCSD 400-328209/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	328209

Analysis Batch: 328902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328209

Analysis Batch: 329509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-3	P57-ROX-101816	Total/NA	Water	8270D	328209

GC/MS Semi VOA (Continued)

Analysis Batch: 329509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-4	P58-ROX-101816	Total/NA	Water	8270D	328209
400-128902-C-1-A MS	Matrix Spike	Total/NA	Water	8270D	328209
400-128902-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	328209
400-128903-E-3-B MS	Matrix Spike	Total/NA	Water	8270D	328209
400-128903-E-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	328209

Analysis Batch: 330379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-3	P57-ROX-101816	Total/NA	Water	8270D	328209
400-128900-4	P58-ROX-101816	Total/NA	Water	8270D	328209

GC Semi VOA

Prep Batch: 327995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-2	TB-ROX-101816-8011	Total/NA	Water	8011	
400-128900-3	P57-ROX-101816	Total/NA	Water	8011	
400-128900-4	P58-ROX-101816	Total/NA	Water	8011	
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 328117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128900-2	TB-ROX-101816-8011	Total/NA	Water	8011	327995
400-128900-3	P57-ROX-101816	Total/NA	Water	8011	327995
400-128900-4	P58-ROX-101816	Total/NA	Water	8011	327995
MB 400-327995/1-A	Method Blank	Total/NA	Water	8011	327995
LCS 400-327995/2-A	Lab Control Sample	Total/NA	Water	8011	327995
LCSD 400-327995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	327995

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328744/4
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/16 12:25	1
Acrolein	ND		20	10	ug/L			10/28/16 12:25	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/16 12:25	1
Benzene	ND		1.0	0.38	ug/L			10/28/16 12:25	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/16 12:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/16 12:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Bromoform	ND		5.0	0.71	ug/L			10/28/16 12:25	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/16 12:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/16 12:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/16 12:25	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/16 12:25	1
Chloroform	ND		1.0	0.60	ug/L			10/28/16 12:25	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/16 12:25	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/16 12:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 12:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/16 12:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/16 12:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/16 12:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/16 12:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/16 12:25	1
2-Hexanone	ND		25	3.1	ug/L			10/28/16 12:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/16 12:25	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/16 12:25	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/16 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/16 12:25	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/16 12:25	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/16 12:25	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/16 12:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/16 12:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/16 12:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/16 12:25	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/16 12:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/16 12:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328744/4
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/16 12:25	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/16 12:25	1
Styrene	ND		1.0	1.0	ug/L			10/28/16 12:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/16 12:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/16 12:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/16 12:25	1
Toluene	ND		1.0	0.70	ug/L			10/28/16 12:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/16 12:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/16 12:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/16 12:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/16 12:25	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/16 12:25	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/16 12:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/16 12:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/16 12:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/16 12:25	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/16 12:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/16 12:25	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/16 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/28/16 12:25*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/28/16 12:25*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/28/16 12:25*	*1*

Lab Sample ID: LCS 400-328744/1002
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	238		ug/L		119	43 - 160
Acrolein	500	509		ug/L		102	38 - 160
Acrylonitrile	500	473		ug/L		95	64 - 142
Benzene	50.0	48.3		ug/L		97	70 - 130
Bromobenzene	50.0	50.8		ug/L		102	70 - 132
Bromochloromethane	50.0	49.3		ug/L		99	70 - 130
Bromodichloromethane	50.0	44.1		ug/L		88	67 - 133
Bromoform	50.0	39.1		ug/L		78	57 - 140
Bromomethane	50.0	32.0		ug/L		64	10 - 160
2-Butanone (MEK)	200	204		ug/L		102	61 - 145
Carbon disulfide	50.0	41.3		ug/L		83	61 - 137
Carbon tetrachloride	50.0	47.2		ug/L		94	61 - 137
Chlorobenzene	50.0	51.3		ug/L		103	70 - 130
Dibromochloromethane	50.0	44.7		ug/L		89	67 - 135
Chloroethane	50.0	49.8		ug/L		100	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328744/1002
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	30.0		ug/L		60	10 - 160
Chloroform	50.0	49.2		ug/L		98	69 - 130
1-Chlorohexane	50.0	47.5		ug/L		95	69 - 130
Chloromethane	50.0	32.5		ug/L		65	58 - 137
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	68 - 130
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	69 - 132
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	67 - 130
1,3-Dichlorobenzene	50.0	51.5		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	31.7		ug/L		63	41 - 146
1,1-Dichloroethane	50.0	49.1		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/L		101	69 - 130
1,1-Dichloroethene	50.0	46.3		ug/L		93	63 - 134
1,2-Dichloropropane	50.0	49.3		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	50.3		ug/L		101	70 - 130
2,2-Dichloropropane	50.0	43.1		ug/L		86	52 - 135
1,1-Dichloropropene	50.0	49.0		ug/L		98	70 - 130
Ethylbenzene	50.0	48.1		ug/L		96	70 - 130
Ethyl methacrylate	50.0	43.9		ug/L		88	68 - 130
Hexachlorobutadiene	50.0	50.9		ug/L		102	53 - 140
2-Hexanone	200	197		ug/L		98	65 - 137
Isopropylbenzene	50.0	49.0		ug/L		98	70 - 130
Methylene bromide	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	48.9		ug/L		98	66 - 135
4-Methyl-2-pentanone (MIBK)	200	197		ug/L		98	69 - 138
Methyl tert-butyl ether	50.0	43.6		ug/L		87	66 - 130
m-Xylene & p-Xylene	50.0	48.3		ug/L		97	70 - 130
Naphthalene	50.0	47.1		ug/L		94	47 - 149
n-Butylbenzene	50.0	56.4		ug/L		113	67 - 130
N-Propylbenzene	50.0	52.0		ug/L		104	70 - 130
o-Chlorotoluene	50.0	51.2		ug/L		102	70 - 130
o-Xylene	50.0	47.3		ug/L		95	70 - 130
p-Chlorotoluene	50.0	49.9		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	54.6		ug/L		109	65 - 130
sec-Butylbenzene	50.0	54.3		ug/L		109	66 - 130
Styrene	50.0	48.1		ug/L		96	70 - 130
tert-Butylbenzene	50.0	52.1		ug/L		104	64 - 139
1,1,1,2-Tetrachloroethane	50.0	44.9		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 131
Tetrachloroethene	50.0	46.8		ug/L		94	65 - 130
Toluene	50.0	48.4		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	42.4		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	50.0		ug/L		100	60 - 138
1,2,4-Trichlorobenzene	50.0	49.9		ug/L		100	60 - 140
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	68 - 130
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130
Trichloroethene	50.0	50.1		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328744/1002
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	51.0		ug/L		102	65 - 138
1,2,3-Trichloropropane	50.0	46.5		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	51.9		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	69 - 130
Vinyl acetate	100	105		ug/L		105	26 - 160
Vinyl chloride	50.0	43.6		ug/L		87	59 - 136
Xylenes, Total	100	95.7		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*78 - 118*
Dibromofluoromethane	*109*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 400-128851-A-1 MS
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	137		ug/L		69	43 - 160
Acrolein	ND		500	471		ug/L		94	38 - 160
Acrylonitrile	ND		500	443		ug/L		89	62 - 149
Benzene	ND		50.0	45.9		ug/L		92	56 - 142
Bromobenzene	ND		50.0	47.9		ug/L		96	59 - 136
Bromochloromethane	ND		50.0	45.4		ug/L		91	64 - 140
Bromodichloromethane	ND		50.0	41.3		ug/L		83	59 - 143
Bromoform	ND		50.0	34.8		ug/L		70	50 - 140
Bromomethane	ND		50.0	27.8		ug/L		56	10 - 160
2-Butanone (MEK)	ND		200	161		ug/L		80	55 - 150
Carbon disulfide	ND		50.0	38.0		ug/L		76	48 - 152
Carbon tetrachloride	ND		50.0	43.1		ug/L		86	55 - 145
Chlorobenzene	0.52	J	50.0	48.6		ug/L		96	64 - 130
Dibromochloromethane	ND		50.0	39.8		ug/L		80	56 - 143
Chloroethane	ND		50.0	48.6		ug/L		97	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	46.6		ug/L		93	60 - 141
1-Chlorohexane	ND		50.0	44.8		ug/L		90	56 - 136
Chloromethane	ND		50.0	29.2		ug/L		58	49 - 148
cis-1,2-Dichloroethene	ND		50.0	45.9		ug/L		92	59 - 143
cis-1,3-Dichloropropene	ND		50.0	43.4		ug/L		87	57 - 140
1,2-Dichlorobenzene	ND		50.0	49.7		ug/L		99	52 - 137
1,3-Dichlorobenzene	ND		50.0	48.6		ug/L		97	54 - 135
1,4-Dichlorobenzene	ND		50.0	49.6		ug/L		99	53 - 135
Dichlorodifluoromethane	ND		50.0	29.7		ug/L		59	16 - 160
1,1-Dichloroethane	ND		50.0	46.6		ug/L		93	61 - 144
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	60 - 141
1,1-Dichloroethene	ND		50.0	42.8		ug/L		86	54 - 147
1,2-Dichloropropane	ND		50.0	47.6		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	45.4		ug/L		91	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128851-A-1 MS
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	40.1		ug/L		80	42 - 144
1,1-Dichloropropene	ND		50.0	46.8		ug/L		94	65 - 136
Ethylbenzene	ND		50.0	45.7		ug/L		91	58 - 131
Ethyl methacrylate	ND		50.0	40.7		ug/L		81	64 - 130
Hexachlorobutadiene	ND		50.0	46.3		ug/L		93	31 - 149
2-Hexanone	ND		200	162		ug/L		81	65 - 140
Isopropylbenzene	ND		50.0	46.7		ug/L		93	56 - 133
Methylene bromide	ND		50.0	48.2		ug/L		96	63 - 138
Methylene Chloride	ND		50.0	42.6		ug/L		85	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	180		ug/L		90	63 - 146
Methyl tert-butyl ether	ND		50.0	39.4		ug/L		79	59 - 137
m-Xylene & p-Xylene	ND		50.0	44.9		ug/L		90	57 - 130
Naphthalene	ND		50.0	44.7		ug/L		89	25 - 160
n-Butylbenzene	ND		50.0	52.0		ug/L		104	41 - 142
N-Propylbenzene	ND		50.0	49.2		ug/L		98	51 - 138
o-Chlorotoluene	ND		50.0	48.6		ug/L		97	53 - 134
o-Xylene	ND		50.0	45.9		ug/L		92	61 - 130
p-Chlorotoluene	ND		50.0	46.4		ug/L		93	54 - 133
p-Isopropyltoluene	ND		50.0	51.0		ug/L		102	48 - 139
sec-Butylbenzene	ND		50.0	50.9		ug/L		102	50 - 138
Styrene	ND		50.0	45.6		ug/L		91	58 - 131
tert-Butylbenzene	ND		50.0	48.6		ug/L		97	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	41.8		ug/L		84	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.5		ug/L		97	66 - 135
Tetrachloroethene	ND		50.0	39.2		ug/L		78	52 - 133
Toluene	ND		50.0	46.2		ug/L		92	65 - 130
trans-1,2-Dichloroethene	ND		50.0	44.4		ug/L		89	61 - 143
trans-1,3-Dichloropropene	ND		50.0	37.4		ug/L		75	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.6		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	45.2		ug/L		90	39 - 148
1,1,1-Trichloroethane	ND		50.0	43.7		ug/L		87	57 - 142
1,1,2-Trichloroethane	ND		50.0	46.5		ug/L		93	66 - 131
Trichloroethene	ND		50.0	47.7		ug/L		95	64 - 136
Trichlorofluoromethane	ND		50.0	47.9		ug/L		96	54 - 156
1,2,3-Trichloropropane	ND		50.0	46.3		ug/L		93	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	47.9		ug/L		96	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	48.5		ug/L		97	52 - 135
Vinyl acetate	ND		100	95.6		ug/L		96	26 - 160
Vinyl chloride	ND		50.0	39.7		ug/L		79	46 - 152
Xylenes, Total	ND		100	90.8		ug/L		91	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128851-A-1 MSD
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	143		ug/L		72	43 - 160	4	30
Acrolein	ND		500	497		ug/L		99	38 - 160	5	31
Acrylonitrile	ND		500	462		ug/L		92	62 - 149	4	30
Benzene	ND		50.0	49.4		ug/L		99	56 - 142	7	30
Bromobenzene	ND		50.0	49.5		ug/L		99	59 - 136	3	30
Bromochloromethane	ND		50.0	47.7		ug/L		95	64 - 140	5	30
Bromodichloromethane	ND		50.0	44.3		ug/L		89	59 - 143	7	30
Bromoform	ND		50.0	36.5		ug/L		73	50 - 140	5	30
Bromomethane	ND		50.0	40.0		ug/L		80	10 - 160	36	50
2-Butanone (MEK)	ND		200	167		ug/L		84	55 - 150	4	30
Carbon disulfide	ND		50.0	38.8		ug/L		78	48 - 152	2	30
Carbon tetrachloride	ND		50.0	47.1		ug/L		94	55 - 145	9	30
Chlorobenzene	0.52	J	50.0	51.9		ug/L		103	64 - 130	7	30
Dibromochloromethane	ND		50.0	43.3		ug/L		87	56 - 143	8	30
Chloroethane	ND		50.0	53.1		ug/L		106	50 - 151	9	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	51.8		ug/L		104	60 - 141	11	30
1-Chlorohexane	ND		50.0	47.0		ug/L		94	56 - 136	5	30
Chloromethane	ND		50.0	35.8		ug/L		72	49 - 148	20	31
cis-1,2-Dichloroethene	ND		50.0	51.1		ug/L		102	59 - 143	11	30
cis-1,3-Dichloropropene	ND		50.0	47.0		ug/L		94	57 - 140	8	30
1,2-Dichlorobenzene	ND		50.0	51.2		ug/L		102	52 - 137	3	30
1,3-Dichlorobenzene	ND		50.0	50.8		ug/L		102	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	49.9		ug/L		100	53 - 135	1	30
Dichlorodifluoromethane	ND		50.0	30.7		ug/L		61	16 - 160	4	31
1,1-Dichloroethane	ND		50.0	51.3		ug/L		103	61 - 144	10	30
1,2-Dichloroethane	ND		50.0	51.9		ug/L		104	60 - 141	8	30
1,1-Dichloroethene	ND		50.0	47.4		ug/L		95	54 - 147	10	30
1,2-Dichloropropane	ND		50.0	51.2		ug/L		102	66 - 137	7	30
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	66 - 133	10	30
2,2-Dichloropropane	ND		50.0	44.5		ug/L		89	42 - 144	11	31
1,1-Dichloropropene	ND		50.0	50.6		ug/L		101	65 - 136	8	30
Ethylbenzene	ND		50.0	49.1		ug/L		98	58 - 131	7	30
Ethyl methacrylate	ND		50.0	43.6		ug/L		87	64 - 130	7	30
Hexachlorobutadiene	ND		50.0	47.0		ug/L		94	31 - 149	2	36
2-Hexanone	ND		200	168		ug/L		84	65 - 140	4	30
Isopropylbenzene	ND		50.0	50.2		ug/L		100	56 - 133	7	30
Methylene bromide	ND		50.0	50.7		ug/L		101	63 - 138	5	30
Methylene Chloride	ND		50.0	49.0		ug/L		98	60 - 146	14	32
4-Methyl-2-pentanone (MIBK)	ND		200	189		ug/L		94	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	44.0		ug/L		88	59 - 137	11	30
m-Xylene & p-Xylene	ND		50.0	49.2		ug/L		98	57 - 130	9	30
Naphthalene	ND		50.0	45.5		ug/L		91	25 - 160	2	30
n-Butylbenzene	ND		50.0	52.7		ug/L		105	41 - 142	1	31
N-Propylbenzene	ND		50.0	50.6		ug/L		101	51 - 138	3	30
o-Chlorotoluene	ND		50.0	49.6		ug/L		99	53 - 134	2	30
o-Xylene	ND		50.0	49.1		ug/L		98	61 - 130	7	30
p-Chlorotoluene	ND		50.0	49.4		ug/L		99	54 - 133	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128851-A-1 MSD
Matrix: Water
Analysis Batch: 328744

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	50.5		ug/L		101	48 - 139	1	30
sec-Butylbenzene	ND		50.0	51.6		ug/L		103	50 - 138	1	30
Styrene	ND		50.0	48.9		ug/L		98	58 - 131	7	30
tert-Butylbenzene	ND		50.0	50.4		ug/L		101	54 - 146	4	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.7		ug/L		93	59 - 137	11	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.5		ug/L		99	66 - 135	2	30
Tetrachloroethene	ND		50.0	42.3		ug/L		85	52 - 133	8	30
Toluene	ND		50.0	50.6		ug/L		101	65 - 130	9	30
trans-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	61 - 143	12	30
trans-1,3-Dichloropropene	ND		50.0	41.1		ug/L		82	53 - 133	9	30
1,2,3-Trichlorobenzene	ND		50.0	48.5		ug/L		97	43 - 145	2	30
1,2,4-Trichlorobenzene	ND		50.0	46.6		ug/L		93	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	57 - 142	10	30
1,1,2-Trichloroethane	ND		50.0	49.1		ug/L		98	66 - 131	6	30
Trichloroethene	ND		50.0	48.3		ug/L		97	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	53.0		ug/L		106	54 - 156	10	30
1,2,3-Trichloropropane	ND		50.0	46.2		ug/L		92	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	48.8		ug/L		98	50 - 139	2	30
1,3,5-Trimethylbenzene	ND		50.0	49.3		ug/L		99	52 - 135	2	30
Vinyl acetate	ND		100	98.5		ug/L		98	26 - 160	3	33
Vinyl chloride	ND		50.0	45.9		ug/L		92	46 - 152	14	30
Xylenes, Total	ND		100	98.3		ug/L		98	59 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzoic acid	ND		30	7.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzyl alcohol	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	10/26/16 22:53	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	10/26/16 22:53	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	10/26/16 22:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dibenzofuran	ND		10	0.52	ug/L		10/25/16 13:53	10/26/16 22:53	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Diethyl phthalate	ND		10	0.70	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	10/26/16 22:53	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	10/26/16 22:53	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/25/16 13:53	10/26/16 22:53	1
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
Indene	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Nitroaniline	ND		10	2.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Nitrophenol	ND		10	0.65	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Nitrophenol	ND		10	2.1	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	10/26/16 22:53	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
Phenol	ND		10	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
2-Fluorophenol	*71*		*10 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Phenol-d5	*74*		*10 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Terphenyl-d14	*79*		*53 - 125*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/25/16 13:53*	*10/26/16 22:53*	*1*

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	21.9		ug/L		73	10 - 145
Benzoic acid	126	37.5		ug/L		30	10 - 120
Benzyl alcohol	30.0	25.0		ug/L		83	51 - 121
Bis(2-chloroethoxy)methane	30.0	21.0		ug/L		70	54 - 123
Bis(2-chloroethyl)ether	30.0	23.7		ug/L		79	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.8		ug/L		79	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	24.2		ug/L		81	62 - 140
4-Bromophenyl phenyl ether	30.0	21.1		ug/L		70	62 - 132
Butyl benzyl phthalate	30.0	24.8		ug/L		83	51 - 150
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128
4-Chloro-3-methylphenol	30.0	25.8		ug/L		86	47 - 135
2-Chloronaphthalene	30.0	30.9		ug/L		103	24 - 150
2-Chlorophenol	30.0	23.5		ug/L		78	45 - 120
4-Chlorophenyl phenyl ether	30.0	30.6		ug/L		102	61 - 133
Dibenz[a,h]acridine	30.0	23.9		ug/L		80	60 - 131
Dibenzofuran	30.0	31.1		ug/L		104	62 - 124
3,3'-Dichlorobenzidine	40.0	31.1		ug/L		78	16 - 167
2,4-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125
Diethyl phthalate	30.0	31.8		ug/L		106	55 - 140
2,4-Dimethylphenol	30.0	23.2		ug/L		77	52 - 121
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133
Di-n-butyl phthalate	30.0	26.4		ug/L		88	59 - 144
4,6-Dinitro-ortho-cresol	60.0	44.2		ug/L		74	46 - 136
2,4-Dinitrophenol	101	53.5		ug/L		53	22 - 146
2,4-Dinitrotoluene	30.0	34.4		ug/L		115	54 - 141
2,6-Dinitrotoluene	30.0	25.0		ug/L		83	61 - 130
Di-n-octyl phthalate	30.0	36.9		ug/L		123	55 - 140
1,4-Dioxane	30.0	15.3		ug/L		51	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.2		ug/L		71	55 - 139
Hexachlorobenzene	30.0	21.2		ug/L		71	60 - 138
Hexachlorocyclopentadiene	30.0	19.6	J	ug/L		65	1 - 139
Hexachloroethane	30.0	21.2		ug/L		71	46 - 121
Indene	30.0	24.3		ug/L		81	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	23.7		ug/L		79	38 - 121
3 & 4 Methylphenol	30.0	25.7		ug/L		86	43 - 126
2-Nitroaniline	30.0	27.0		ug/L		90	52 - 135
3-Nitroaniline	30.0	23.5		ug/L		78	51 - 128
4-Nitroaniline	30.0	31.8		ug/L		106	38 - 141
Nitrobenzene	30.0	24.7		ug/L		82	52 - 128
2-Nitrophenol	30.0	22.0		ug/L		73	47 - 129
4-Nitrophenol	60.0	62.5		ug/L		104	34 - 137
N-Nitrosodimethylamine	30.0	23.3		ug/L		78	21 - 134
N-Nitrosodi-n-propylamine	30.0	27.6		ug/L		92	41 - 143
N-Nitrosodiphenylamine	29.8	25.6		ug/L		86	10 - 185
Pentachlorophenol	60.0	38.7		ug/L		65	38 - 138
Phenol	30.0	23.3		ug/L		78	37 - 120
Pyridine	30.0	15.9		ug/L		53	10 - 127
Quinoline	30.0	21.3		ug/L		71	10 - 164

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	30.3		ug/L		101	53 - 130
2,4,6-Trichlorophenol	30.0	29.3		ug/L		98	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*34 - 120*
2-Fluorophenol	*73*		*10 - 120*
Nitrobenzene-d5	*83*		*27 - 120*
Phenol-d5	*80*		*10 - 120*
Terphenyl-d14	*90*		*53 - 125*
2,4,6-Tribromophenol	*97*		*15 - 135*

Lab Sample ID: LCS 400-328209/4-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	12.3		ug/L		41	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 120*
2-Fluorophenol	*62*		*10 - 120*
Nitrobenzene-d5	*77*		*27 - 120*
Phenol-d5	*62*		*10 - 120*
Terphenyl-d14	*84*		*53 - 125*
2,4,6-Tribromophenol	*79*		*15 - 135*

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	19.4		ug/L		65	10 - 145	12	30
Benzoic acid	126	10.7	J *	ug/L		9	10 - 120	111	30
Benzyl alcohol	30.0	17.4	*	ug/L		58	51 - 121	36	30
Bis(2-chloroethoxy)methane	30.0	20.8		ug/L		69	54 - 123	1	30
Bis(2-chloroethyl)ether	30.0	19.6		ug/L		65	47 - 120	19	30
bis (2-chloroisopropyl) ether	30.0	19.7		ug/L		66	20 - 142	19	30
Bis(2-ethylhexyl) phthalate	30.0	31.4		ug/L		105	62 - 140	26	30
4-Bromophenyl phenyl ether	30.0	23.2		ug/L		77	62 - 132	9	30
Butyl benzyl phthalate	30.0	32.1		ug/L		107	51 - 150	26	30
4-Chloroaniline	30.0	19.7		ug/L		66	32 - 128	1	30
4-Chloro-3-methylphenol	30.0	23.2		ug/L		77	47 - 135	11	30
2-Chloronaphthalene	30.0	22.3	*	ug/L		74	24 - 150	32	30
2-Chlorophenol	30.0	20.0		ug/L		67	45 - 120	16	30
4-Chlorophenyl phenyl ether	30.0	23.9		ug/L		80	61 - 133	24	30
Dibenz[a,h]acridine	30.0	21.3		ug/L		71	60 - 131	12	30
Dibenzofuran	30.0	23.6		ug/L		79	62 - 124	27	30
3,3'-Dichlorobenzidine	40.0	35.4		ug/L		88	16 - 167	13	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	30.0	22.5		ug/L		75	52 - 125	11	30
Diethyl phthalate	30.0	25.1		ug/L		84	55 - 140	24	30
2,4-Dimethylphenol	30.0	23.8		ug/L		79	52 - 121	2	30
Dimethyl phthalate	30.0	24.0		ug/L		80	50 - 133	4	30
Di-n-butyl phthalate	30.0	25.6		ug/L		85	59 - 144	3	30
4,6-Dinitro-ortho-cresol	60.0	20.6	*	ug/L		34	46 - 136	73	30
2,4-Dinitrophenol	101	22.4	J *	ug/L		22	22 - 146	82	30
2,4-Dinitrotoluene	30.0	27.1		ug/L		90	54 - 141	24	30
2,6-Dinitrotoluene	30.0	23.9		ug/L		80	61 - 130	4	30
Di-n-octyl phthalate	30.0	28.8		ug/L		96	55 - 140	25	30
1,4-Dioxane	30.0	13.6		ug/L		45	10 - 130	11	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.8		ug/L		76	55 - 139	7	30
Hexachlorobenzene	30.0	25.1		ug/L		84	60 - 138	17	30
Hexachlorocyclopentadiene	30.0	7.09	J *	ug/L		24	1 - 139	94	30
Hexachloroethane	30.0	16.7		ug/L		56	46 - 121	24	30
Indene	30.0	20.7		ug/L		69	17 - 141	16	30
Isophorone	30.0	21.8		ug/L		73	57 - 122	16	30
2-Methylphenol	30.0	23.3		ug/L		78	38 - 121	2	30
3 & 4 Methylphenol	30.0	22.3		ug/L		74	43 - 126	14	30
2-Nitroaniline	30.0	24.3		ug/L		81	52 - 135	10	30
3-Nitroaniline	30.0	23.0		ug/L		77	51 - 128	2	30
4-Nitroaniline	30.0	ND	*	ug/L		2	38 - 141	193	30
Nitrobenzene	30.0	20.4		ug/L		68	52 - 128	19	30
2-Nitrophenol	30.0	20.2		ug/L		67	47 - 129	9	30
4-Nitrophenol	60.0	53.7		ug/L		89	34 - 137	15	30
N-Nitrosodimethylamine	30.0	21.7		ug/L		72	21 - 134	7	30
N-Nitrosodi-n-propylamine	30.0	22.8		ug/L		76	41 - 143	19	30
N-Nitrosodiphenylamine	29.8	23.8		ug/L		80	10 - 185	7	30
Pentachlorophenol	60.0	40.4		ug/L		67	38 - 138	4	30
Phenol	30.0	19.5		ug/L		65	37 - 120	17	30
Pyridine	30.0	13.8		ug/L		46	10 - 127	14	30
Quinoline	30.0	22.3		ug/L		74	10 - 164	5	30
2,4,5-Trichlorophenol	30.0	22.4		ug/L		75	53 - 130	30	30
2,4,6-Trichlorophenol	30.0	22.3		ug/L		74	52 - 131	27	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 120*
2-Fluorophenol	*56*		*10 - 120*
Nitrobenzene-d5	*66*		*27 - 120*
Phenol-d5	*66*		*10 - 120*
Terphenyl-d14	*108*		*53 - 125*
2,4,6-Tribromophenol	*82*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328209/5-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	13.6		ug/L		45	20 - 150	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 120*
2-Fluorophenol	*51*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*61*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*82*		*15 - 135*

Lab Sample ID: 400-128902-C-1-A MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		28.6	15.6		ug/L		54	10 - 143
Benzoic acid	ND	F1	120	ND	F1	ug/L		0	10 - 134
Benzyl alcohol	ND	F1	28.6	ND	F1	ug/L		0	10 - 154
Bis(2-chloroethoxy)methane	ND		28.6	20.5		ug/L		72	14 - 147
Bis(2-chloroethyl)ether	ND		28.6	21.8		ug/L		76	28 - 130
bis (2-chloroisopropyl) ether	ND		28.6	18.2		ug/L		64	10 - 141
Bis(2-ethylhexyl) phthalate	ND		28.6	27.2		ug/L		95	43 - 160
4-Bromophenyl phenyl ether	ND		28.6	27.8		ug/L		97	26 - 159
Butyl benzyl phthalate	ND		28.6	25.9		ug/L		91	43 - 151
4-Chloroaniline	ND		28.6	13.7		ug/L		48	10 - 152
4-Chloro-3-methylphenol	ND		28.6	24.7		ug/L		86	17 - 156
2-Chloronaphthalene	ND		28.6	21.0		ug/L		73	10 - 155
2-Chlorophenol	ND		28.6	15.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		28.6	24.8		ug/L		87	25 - 161
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147
Dibenzofuran	ND		28.6	23.6		ug/L		82	18 - 157
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		28.6	21.8		ug/L		76	16 - 147
Diethyl phthalate	ND		28.6	19.0		ug/L		67	23 - 160
2,4-Dimethylphenol	ND		28.6	21.4		ug/L		75	25 - 146
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158
Di-n-butyl phthalate	ND		28.6	23.1		ug/L		81	28 - 162
4,6-Dinitro-ortho-cresol	ND		57.1	53.6		ug/L		94	10 - 168
2,4-Dinitrophenol	ND		96.3	99.4		ug/L		103	10 - 166
2,4-Dinitrotoluene	ND		28.6	27.0		ug/L		94	26 - 158
2,6-Dinitrotoluene	ND		28.6	23.7		ug/L		83	19 - 157
Di-n-octyl phthalate	ND		28.6	24.7		ug/L		86	42 - 150
1,4-Dioxane	ND		28.6	11.5		ug/L		40	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	19.7		ug/L		69	19 - 162
Hexachlorobenzene	ND		28.6	29.8		ug/L		104	45 - 145
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151
Hexachloroethane	ND		28.6	16.0		ug/L		56	29 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128902-C-1-A MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130
Isophorone	ND		28.6	21.1		ug/L		74	24 - 144
2-Methylphenol	ND		28.6	30.3		ug/L		106	22 - 130
3 & 4 Methylphenol	ND		28.6	21.7		ug/L		76	31 - 130
2-Nitroaniline	ND		28.6	21.0		ug/L		73	10 - 162
3-Nitroaniline	ND		28.6	12.8		ug/L		45	10 - 163
4-Nitroaniline	ND		28.6	19.9		ug/L		70	10 - 162
Nitrobenzene	ND		28.6	20.6		ug/L		72	34 - 135
2-Nitrophenol	ND		28.6	22.8		ug/L		80	27 - 134
4-Nitrophenol	ND		57.1	46.5		ug/L		81	10 - 175
N-Nitrosodimethylamine	ND		28.6	18.0		ug/L		63	10 - 139
N-Nitrosodi-n-propylamine	ND		28.6	19.8		ug/L		69	13 - 147
N-Nitrosodiphenylamine	ND		28.3	21.3		ug/L		75	31 - 150
Pentachlorophenol	ND		57.1	74.6		ug/L		131	10 - 180
Phenol	ND		28.6	15.1		ug/L		53	23 - 130
Pyridine	ND		28.6	14.5		ug/L		51	10 - 130
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180
2,4,5-Trichlorophenol	ND		28.6	25.1		ug/L		88	43 - 137
2,4,6-Trichlorophenol	ND		28.6	23.0		ug/L		80	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*35*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*107*		*53 - 125*
2,4,6-Tribromophenol	*116*		*15 - 135*

Lab Sample ID: 400-128902-C-1-B MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		28.6	14.2		ug/L		50	10 - 143	9	63
Benzoic acid	ND	F1	120	ND	F1	ug/L		0	10 - 134	NC	49
Benzyl alcohol	ND	F1	28.6	3.36	J	ug/L		12	10 - 154	NC	37
Bis(2-chloroethoxy)methane	ND		28.6	21.2		ug/L		74	14 - 147	3	70
Bis(2-chloroethyl)ether	ND		28.6	22.0		ug/L		77	28 - 130	1	42
bis (2-chloroisopropyl) ether	ND		28.6	18.9		ug/L		66	10 - 141	4	41
Bis(2-ethylhexyl) phthalate	ND		28.6	30.5		ug/L		107	43 - 160	11	35
4-Bromophenyl phenyl ether	ND		28.6	28.9		ug/L		101	26 - 159	4	30
Butyl benzyl phthalate	ND		28.6	28.2		ug/L		99	43 - 151	9	32
4-Chloroaniline	ND		28.6	9.93		ug/L		35	10 - 152	32	94
4-Chloro-3-methylphenol	ND		28.6	25.0		ug/L		88	17 - 156	1	40
2-Chloronaphthalene	ND		28.6	22.1		ug/L		77	10 - 155	5	29
2-Chlorophenol	ND		28.6	18.5		ug/L		65	19 - 130	19	42
4-Chlorophenyl phenyl ether	ND		28.6	25.6		ug/L		90	25 - 161	3	27
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147	NC	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128902-C-1-B MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenzofuran	ND		28.6	24.1		ug/L		84	18 - 157	2	29
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		28.6	23.9		ug/L		84	16 - 147	9	43
Diethyl phthalate	ND		28.6	18.4		ug/L		64	23 - 160	3	40
2,4-Dimethylphenol	ND		28.6	21.8		ug/L		76	25 - 146	2	47
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158	0	36
Di-n-butyl phthalate	ND		28.6	23.5		ug/L		82	28 - 162	2	32
4,6-Dinitro-ortho-cresol	ND		57.1	58.0		ug/L		101	10 - 168	8	42
2,4-Dinitrophenol	ND		96.3	109		ug/L		113	10 - 166	9	36
2,4-Dinitrotoluene	ND		28.6	28.5		ug/L		100	26 - 158	5	28
2,6-Dinitrotoluene	ND		28.6	24.9		ug/L		87	19 - 157	5	28
Di-n-octyl phthalate	ND		28.6	25.9		ug/L		90	42 - 150	5	35
1,4-Dioxane	ND		28.6	13.2		ug/L		46	10 - 130	14	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	20.7		ug/L		72	19 - 162	5	40
Hexachlorobenzene	ND		28.6	31.4		ug/L		110	45 - 145	5	33
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151	NC	50
Hexachloroethane	ND		28.6	17.7		ug/L		62	29 - 130	10	41
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130	NC	40
Isophorone	ND		28.6	22.1		ug/L		77	24 - 144	5	33
2-Methylphenol	ND		28.6	29.3		ug/L		103	22 - 130	3	47
3 & 4 Methylphenol	ND		28.6	20.2		ug/L		71	31 - 130	7	47
2-Nitroaniline	ND		28.6	22.0		ug/L		77	10 - 162	5	33
3-Nitroaniline	ND		28.6	13.5		ug/L		47	10 - 163	6	39
4-Nitroaniline	ND		28.6	21.1		ug/L		74	10 - 162	6	50
Nitrobenzene	ND		28.6	21.6		ug/L		75	34 - 135	5	35
2-Nitrophenol	ND		28.6	25.9		ug/L		91	27 - 134	13	43
4-Nitrophenol	ND		57.1	42.1		ug/L		74	10 - 175	10	82
N-Nitrosodimethylamine	ND		28.6	19.5		ug/L		68	10 - 139	8	62
N-Nitrosodi-n-propylamine	ND		28.6	20.1		ug/L		70	13 - 147	2	36
N-Nitrosodiphenylamine	ND		28.3	20.5		ug/L		72	31 - 150	4	34
Pentachlorophenol	ND		57.1	76.1		ug/L		133	10 - 180	2	42
Phenol	ND		28.6	17.0		ug/L		59	23 - 130	11	52
Pyridine	ND		28.6	13.8		ug/L		48	10 - 130	5	55
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180	NC	40
2,4,5-Trichlorophenol	ND		28.6	26.2		ug/L		92	43 - 137	4	42
2,4,6-Trichlorophenol	ND		28.6	24.5		ug/L		86	42 - 135	7	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*49*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*99*		*53 - 125*
2,4,6-Tribromophenol	*118*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-E-3-B MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		28.6	15.6		ug/L		54	10 - 143
Benzoic acid	ND	F1	120	8.15	J F1	ug/L		7	10 - 134
Benzyl alcohol	ND		28.6	3.30	J	ug/L		12	10 - 154
Bis(2-chloroethoxy)methane	ND		28.6	20.5		ug/L		72	14 - 147
Bis(2-chloroethyl)ether	ND		28.6	21.8		ug/L		76	28 - 130
bis (2-chloroisopropyl) ether	ND		28.6	18.2		ug/L		64	10 - 141
Bis(2-ethylhexyl) phthalate	ND		28.6	27.2		ug/L		95	43 - 160
4-Bromophenyl phenyl ether	ND		28.6	27.8		ug/L		97	26 - 159
Butyl benzyl phthalate	ND		28.6	25.9		ug/L		91	43 - 151
4-Chloroaniline	ND		28.6	13.7		ug/L		48	10 - 152
4-Chloro-3-methylphenol	ND		28.6	24.7		ug/L		86	17 - 156
2-Chloronaphthalene	ND		28.6	21.0		ug/L		73	10 - 155
2-Chlorophenol	ND		28.6	15.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		28.6	24.8		ug/L		87	25 - 161
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147
Dibenzofuran	ND		28.6	23.6		ug/L		82	18 - 157
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		28.6	21.8		ug/L		76	16 - 147
Diethyl phthalate	ND		28.6	19.0		ug/L		67	23 - 160
2,4-Dimethylphenol	ND		28.6	21.4		ug/L		75	25 - 146
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158
Di-n-butyl phthalate	ND		28.6	23.1		ug/L		81	28 - 162
4,6-Dinitro-ortho-cresol	ND		57.1	53.6		ug/L		94	10 - 168
2,4-Dinitrophenol	ND		96.3	99.4		ug/L		103	10 - 166
2,4-Dinitrotoluene	ND		28.6	27.0		ug/L		94	26 - 158
2,6-Dinitrotoluene	ND		28.6	23.7		ug/L		83	19 - 157
Di-n-octyl phthalate	0.46	J	28.6	24.7		ug/L		85	42 - 150
1,4-Dioxane	ND		28.6	12.4		ug/L		44	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	19.7		ug/L		69	19 - 162
Hexachlorobenzene	ND		28.6	29.8		ug/L		104	45 - 145
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151
Hexachloroethane	ND		28.6	16.0		ug/L		56	29 - 130
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130
Isophorone	ND		28.6	21.1		ug/L		74	24 - 144
2-Methylphenol	ND		28.6	27.3		ug/L		96	22 - 130
3 & 4 Methylphenol	ND		28.6	21.7		ug/L		76	31 - 130
2-Nitroaniline	ND		28.6	21.0		ug/L		73	10 - 162
3-Nitroaniline	ND		28.6	12.8		ug/L		45	10 - 163
4-Nitroaniline	ND		28.6	19.9		ug/L		70	10 - 162
Nitrobenzene	ND		28.6	20.6		ug/L		72	34 - 135
2-Nitrophenol	ND		28.6	22.8		ug/L		80	27 - 134
4-Nitrophenol	ND		57.1	46.5		ug/L		81	10 - 175
N-Nitrosodimethylamine	ND		28.6	18.0		ug/L		63	10 - 139
N-Nitrosodi-n-propylamine	ND		28.6	19.8		ug/L		69	13 - 147
N-Nitrosodiphenylamine	ND		28.3	21.3		ug/L		75	31 - 150
Pentachlorophenol	ND		57.1	74.6		ug/L		131	10 - 180
Phenol	ND		28.6	15.1		ug/L		53	23 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-E-3-B MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	ND		28.6	14.5		ug/L		51	10 - 130
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180
2,4,5-Trichlorophenol	ND		28.6	25.1		ug/L		88	43 - 137
2,4,6-Trichlorophenol	ND		28.6	23.0		ug/L		80	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*35*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*107*		*53 - 125*
2,4,6-Tribromophenol	*116*		*15 - 135*

Lab Sample ID: 400-128903-E-3-C MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		28.6	14.2		ug/L		50	10 - 143	9	63
Benzoic acid	ND	F1	120	8.12	J F1	ug/L		7	10 - 134	0	49
Benzyl alcohol	ND		28.6	3.36	J	ug/L		12	10 - 154	2	37
Bis(2-chloroethoxy)methane	ND		28.6	21.2		ug/L		74	14 - 147	3	70
Bis(2-chloroethyl)ether	ND		28.6	22.0		ug/L		77	28 - 130	1	42
bis (2-chloroisopropyl) ether	ND		28.6	18.9		ug/L		66	10 - 141	4	41
Bis(2-ethylhexyl) phthalate	ND		28.6	30.5		ug/L		107	43 - 160	11	35
4-Bromophenyl phenyl ether	ND		28.6	28.9		ug/L		101	26 - 159	4	30
Butyl benzyl phthalate	ND		28.6	28.2		ug/L		99	43 - 151	9	32
4-Chloroaniline	ND		28.6	9.93		ug/L		35	10 - 152	32	94
4-Chloro-3-methylphenol	ND		28.6	25.0		ug/L		88	17 - 156	1	40
2-Chloronaphthalene	ND		28.6	22.1		ug/L		77	10 - 155	5	29
2-Chlorophenol	ND		28.6	18.5		ug/L		65	19 - 130	19	42
4-Chlorophenyl phenyl ether	ND		28.6	25.6		ug/L		90	25 - 161	3	27
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147	NC	40
Dibenzofuran	ND		28.6	24.1		ug/L		84	18 - 157	2	29
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		28.6	23.9		ug/L		84	16 - 147	9	43
Diethyl phthalate	ND		28.6	18.4		ug/L		64	23 - 160	3	40
2,4-Dimethylphenol	ND		28.6	21.8		ug/L		76	25 - 146	2	47
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158	0	36
Di-n-butyl phthalate	ND		28.6	23.5		ug/L		82	28 - 162	2	32
4,6-Dinitro-ortho-cresol	ND		57.1	58.0		ug/L		101	10 - 168	8	42
2,4-Dinitrophenol	ND		96.3	109		ug/L		113	10 - 166	9	36
2,4-Dinitrotoluene	ND		28.6	28.5		ug/L		100	26 - 158	5	28
2,6-Dinitrotoluene	ND		28.6	24.9		ug/L		87	19 - 157	5	28
Di-n-octyl phthalate	0.46	J	28.6	25.9		ug/L		89	42 - 150	5	35
1,4-Dioxane	ND		28.6	13.9		ug/L		49	10 - 130	11	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	20.7		ug/L		72	19 - 162	5	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-E-3-C MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	ND		28.6	31.4		ug/L		110	45 - 145	5	33
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151	NC	50
Hexachloroethane	ND		28.6	17.7		ug/L		62	29 - 130	10	41
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130	NC	40
Isophorone	ND		28.6	22.1		ug/L		77	24 - 144	5	33
2-Methylphenol	ND		28.6	29.3		ug/L		103	22 - 130	7	47
3 & 4 Methylphenol	ND		28.6	20.2		ug/L		71	31 - 130	7	47
2-Nitroaniline	ND		28.6	22.0		ug/L		77	10 - 162	5	33
3-Nitroaniline	ND		28.6	13.5		ug/L		47	10 - 163	6	39
4-Nitroaniline	ND		28.6	21.1		ug/L		74	10 - 162	6	50
Nitrobenzene	ND		28.6	21.6		ug/L		75	34 - 135	5	35
2-Nitrophenol	ND		28.6	25.9		ug/L		91	27 - 134	13	43
4-Nitrophenol	ND		57.1	42.1		ug/L		74	10 - 175	10	82
N-Nitrosodimethylamine	ND		28.6	19.5		ug/L		68	10 - 139	8	62
N-Nitrosodi-n-propylamine	ND		28.6	20.1		ug/L		70	13 - 147	2	36
N-Nitrosodiphenylamine	ND		28.3	20.5		ug/L		72	31 - 150	4	34
Pentachlorophenol	ND		57.1	76.1		ug/L		133	10 - 180	2	42
Phenol	ND		28.6	17.0		ug/L		59	23 - 130	11	52
Pyridine	ND		28.6	13.8		ug/L		48	10 - 130	5	55
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180	NC	40
2,4,5-Trichlorophenol	ND		28.6	26.2		ug/L		92	43 - 137	4	42
2,4,6-Trichlorophenol	ND		28.6	24.5		ug/L		86	42 - 135	7	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*49*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*99*		*53 - 125*
2,4,6-Tribromophenol	*118*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Fluorene	ND		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 16:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*119*		*33 - 138*	*10/25/16 13:53*	*10/26/16 16:17*	*1*
2-Fluorobiphenyl	*100*		*15 - 122*	*10/25/16 13:53*	*10/26/16 16:17*	*1*
Nitrobenzene-d5	*113*		*19 - 130*	*10/25/16 13:53*	*10/26/16 16:17*	*1*

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	32.1		ug/L		107	41 - 120
Acenaphthylene	30.0	31.5		ug/L		105	44 - 120
Anthracene	30.0	32.2		ug/L		107	49 - 120
Benzo[a]anthracene	30.0	32.7		ug/L		109	61 - 135
Benzo[a]pyrene	30.0	31.8		ug/L		106	52 - 120
Benzo[b]fluoranthene	30.0	37.1		ug/L		124	53 - 134
Benzo[g,h,i]perylene	30.0	28.1		ug/L		94	47 - 133
Benzo[k]fluoranthene	30.0	28.2		ug/L		94	57 - 134
Chrysene	30.0	27.7		ug/L		92	55 - 122
Dibenz(a,h)anthracene	30.0	31.4		ug/L		105	48 - 146
Fluoranthene	30.0	33.0		ug/L		110	54 - 128
Fluorene	30.0	34.3		ug/L		114	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.7		ug/L		102	43 - 142
Phenanthrene	30.0	35.2		ug/L		117	48 - 120
Pyrene	30.0	30.3		ug/L		101	48 - 132
1-Methylnaphthalene	30.0	23.8		ug/L		79	41 - 120
2-Methylnaphthalene	30.0	23.7		ug/L		79	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*114*		*33 - 138*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*90*		*19 - 130*

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.6		ug/L		95	41 - 120	11	56
Acenaphthylene	30.0	27.3		ug/L		91	44 - 120	14	56

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	30.0	30.7		ug/L		102	49 - 120	5	51
Benzo[a]anthracene	30.0	31.4		ug/L		105	61 - 135	4	49
Benzo[a]pyrene	30.0	29.9		ug/L		100	52 - 120	6	50
Benzo[b]fluoranthene	30.0	35.8		ug/L		119	53 - 134	3	54
Benzo[g,h,i]perylene	30.0	27.1		ug/L		90	47 - 133	4	50
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134	6	52
Chrysene	30.0	26.4		ug/L		88	55 - 122	5	50
Dibenz(a,h)anthracene	30.0	30.6		ug/L		102	48 - 146	3	50
Fluoranthene	30.0	30.9		ug/L		103	54 - 128	7	52
Fluorene	30.0	30.8		ug/L		103	45 - 125	11	56
Indeno[1,2,3-cd]pyrene	30.0	30.5		ug/L		102	43 - 142	1	51
Phenanthrene	30.0	33.1		ug/L		110	48 - 120	6	56
Pyrene	30.0	29.6		ug/L		99	48 - 132	2	52
1-Methylnaphthalene	30.0	21.2		ug/L		71	41 - 120	12	55
2-Methylnaphthalene	30.0	21.0		ug/L		70	32 - 124	12	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*110*		*33 - 138*
2-Fluorobiphenyl	*82*		*15 - 122*
Nitrobenzene-d5	*78*		*19 - 130*

Lab Sample ID: 400-128902-C-1-A MS
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28.6	28.2		ug/L		99	35 - 113
Acenaphthylene	ND		28.6	27.2		ug/L		95	41 - 118
Anthracene	ND		28.6	28.2		ug/L		99	45 - 122
Benzo[a]anthracene	ND		28.6	28.0		ug/L		98	55 - 133
Benzo[a]pyrene	ND		28.6	27.5		ug/L		96	50 - 108
Benzo[b]fluoranthene	ND		28.6	29.1		ug/L		102	50 - 128
Benzo[g,h,i]perylene	ND		28.6	27.8		ug/L		97	46 - 133
Benzo[k]fluoranthene	ND		28.6	25.0		ug/L		88	52 - 128
Chrysene	ND		28.6	23.9		ug/L		84	52 - 116
Dibenz(a,h)anthracene	ND		28.6	30.2		ug/L		106	52 - 143
Fluoranthene	0.026	J	28.6	28.6		ug/L		100	32 - 150
Fluorene	ND		28.6	28.4		ug/L		99	15 - 150
Indeno[1,2,3-cd]pyrene	ND		28.6	29.9		ug/L		105	41 - 141
Phenanthrene	ND		28.6	30.3		ug/L		106	36 - 125
Pyrene	ND		28.6	25.2		ug/L		88	41 - 127
1-Methylnaphthalene	0.048	J	28.6	23.7		ug/L		83	10 - 150
2-Methylnaphthalene	0.063	J	28.6	23.5		ug/L		82	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*96*		*33 - 138*
2-Fluorobiphenyl	*90*		*15 - 122*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128902-C-1-A MS
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	*102*		*19 - 130*

Lab Sample ID: 400-128902-C-1-B MSD
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		28.6	27.6		ug/L		97	35 - 113	2	49
Acenaphthylene	ND		28.6	27.2		ug/L		95	41 - 118	0	48
Anthracene	ND		28.6	28.2		ug/L		99	45 - 122	0	56
Benzo[a]anthracene	ND		28.6	26.4		ug/L		92	55 - 133	6	57
Benzo[a]pyrene	ND		28.6	25.9		ug/L		91	50 - 108	6	59
Benzo[b]fluoranthene	ND		28.6	28.7		ug/L		100	50 - 128	1	62
Benzo[g,h,i]perylene	ND		28.6	25.9		ug/L		91	46 - 133	7	58
Benzo[k]fluoranthene	ND		28.6	24.5		ug/L		86	52 - 128	2	58
Chrysene	ND		28.6	24.3		ug/L		85	52 - 116	2	59
Dibenz(a,h)anthracene	ND		28.6	27.8		ug/L		97	52 - 143	8	60
Fluoranthene	0.026	J	28.6	27.9		ug/L		98	32 - 150	2	59
Fluorene	ND		28.6	28.3		ug/L		99	15 - 150	0	49
Indeno[1,2,3-cd]pyrene	ND		28.6	27.5		ug/L		96	41 - 141	8	58
Phenanthrene	ND		28.6	30.4		ug/L		107	36 - 125	0	69
Pyrene	ND		28.6	26.5		ug/L		93	41 - 127	5	58
1-Methylnaphthalene	0.048	J	28.6	23.7		ug/L		83	10 - 150	0	66
2-Methylnaphthalene	0.063	J	28.6	23.5		ug/L		82	10 - 150	0	66

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Terphenyl-d14	*78*		*33 - 138*
2-Fluorobiphenyl	*88*		*15 - 122*
Nitrobenzene-d5	*98*		*19 - 130*

Lab Sample ID: 400-128903-E-3-B MS
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F1	28.6	5.63	F1	ug/L		20	35 - 113
Acenaphthylene	ND	F1	28.6	5.44	F1	ug/L		19	41 - 118
Anthracene	ND	F1	28.6	5.64	F1	ug/L		20	45 - 122
Benzo[a]anthracene	ND	F1	28.6	5.59	F1	ug/L		20	55 - 133
Benzo[a]pyrene	ND	F1	28.6	5.50	F1	ug/L		19	50 - 108
Benzo[b]fluoranthene	ND	F1	28.6	5.82	F1	ug/L		20	50 - 128
Benzo[g,h,i]perylene	ND	F1	28.6	5.56	F1	ug/L		19	46 - 133
Benzo[k]fluoranthene	ND	F1	28.6	5.00	F1	ug/L		18	52 - 128
Chrysene	ND	F1	28.6	4.78	F1	ug/L		17	52 - 116
Dibenz(a,h)anthracene	ND	F1	28.6	6.04	F1	ug/L		21	52 - 143
Fluoranthene	ND	F1	28.6	5.73	F1	ug/L		20	32 - 150
Fluorene	ND		28.6	5.68		ug/L		20	15 - 150
Indeno[1,2,3-cd]pyrene	ND	F1	28.6	5.98	F1	ug/L		21	41 - 141

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128903-E-3-B MS
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	ND	F1	28.6	6.07	F1	ug/L		21	36 - 125
Pyrene	ND	F1	28.6	5.04	F1	ug/L		18	41 - 127
1-Methylnaphthalene	0.048	J	28.6	4.74		ug/L		16	10 - 150
2-Methylnaphthalene	0.063	J	28.6	4.70		ug/L		16	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*19*	*X*	*33 - 138*
2-Fluorobiphenyl	*18*		*15 - 122*
Nitrobenzene-d5	*20*		*19 - 130*

Lab Sample ID: 400-128903-E-3-C MSD
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F1	28.6	5.53	F1	ug/L		19	35 - 113	2	49
Acenaphthylene	ND	F1	28.6	5.44	F1	ug/L		19	41 - 118	0	48
Anthracene	ND	F1	28.6	5.64	F1	ug/L		20	45 - 122	0	56
Benzo[a]anthracene	ND	F1	28.6	5.28	F1	ug/L		18	55 - 133	6	57
Benzo[a]pyrene	ND	F1	28.6	5.19	F1	ug/L		18	50 - 108	6	59
Benzo[b]fluoranthene	ND	F1	28.6	5.74	F1	ug/L		20	50 - 128	1	62
Benzo[g,h,i]perylene	ND	F1	28.6	5.17	F1	ug/L		18	46 - 133	7	58
Benzo[k]fluoranthene	ND	F1	28.6	4.90	F1	ug/L		17	52 - 128	2	58
Chrysene	ND	F1	28.6	4.86	F1	ug/L		17	52 - 116	2	59
Dibenz(a,h)anthracene	ND	F1	28.6	5.56	F1	ug/L		19	52 - 143	8	60
Fluoranthene	ND	F1	28.6	5.59	F1	ug/L		20	32 - 150	2	59
Fluorene	ND		28.6	5.65		ug/L		20	15 - 150	0	49
Indeno[1,2,3-cd]pyrene	ND	F1	28.6	5.51	F1	ug/L		19	41 - 141	8	58
Phenanthrene	ND	F1	28.6	6.09	F1	ug/L		21	36 - 125	0	69
Pyrene	ND	F1	28.6	5.31	F1	ug/L		19	41 - 127	5	58
1-Methylnaphthalene	0.048	J	28.6	4.74		ug/L		16	10 - 150	0	66
2-Methylnaphthalene	0.063	J	28.6	4.71		ug/L		16	10 - 150	0	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*16*	*X*	*33 - 138*
2-Fluorobiphenyl	*18*		*15 - 122*
Nitrobenzene-d5	*20*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327995/1-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:45	10/24/16 19:41	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:45	10/24/16 19:41	1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: MB 400-327995/1-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327995

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	141		51 - 149	10/24/16 09:45	10/24/16 19:41	1

Lab Sample ID: LCS 400-327995/2-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0984		ug/L		98	60 - 140
1,2-Dibromoethane	0.100	0.0850		ug/L		85	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	118		51 - 149

Lab Sample ID: LCSD 400-327995/3-A
Matrix: Water
Analysis Batch: 328117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0966		ug/L		97	60 - 140	2	30
1,2-Dibromoethane	0.100	0.0913		ug/L		91	60 - 140	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	128		51 - 149

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr, Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☑ OTHER _ENV. SERVICES	

Print Bill To Contact Name: Bob Billman

PlaNet Site or Project ID: 25278

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10-18-16

PAGE: 1 of 1

PO #: 60477387 - 1.03.004 / 1.03.0044

GSAP Project ID: USPC/00114/R/02

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID:

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher, K. Wallkowska

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

E-MAIL To Contact: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) __EDD_____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

* Please include "J" values on Reports
* Please provide sample receipt upon login

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

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044

NON-UNIT COST 60477387 - 1.03.004

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101816-8260	10/18/16	0000	water	2					2			X	
	TB-ROX-101816-8011	10/18/16	0000	water	2					2	X			
	P57-ROX-101816	10/18/16	1055	water	4			2		6	X	X	X	X
	P58-ROX-101816	10/18/16	1315	water	4			2		6	X	X	X	X

Samuel Fisher

Ref: Dep:

Date: 28Jul16
Wgt: 10.00 LBS

DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT
TRCK: 6545 8387 7609

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

400-128900 COC

Relinquished by: (Signature) Samuel Fisher	Received by: (Signature) FedEx	Date: 10-18-16	Time: 1630
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/19/16	Time: 819
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

0.4°C IR6

Version: 14Dec15

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11/14/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128900-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128900
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128900-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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Roxana Groundwater Quarterly – 4th Quarter 2016 Data Review

Laboratory SDG: 400-128903-1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/2/2016

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2016

Sample Identification	Sample Identification
TB-ROX-101816-8260-SS	TB-ROX-101816-8011-SS
P93C-ROX-101816	P59-ROX-101816
P93A-ROX-101816	P93A-ROX-101816-Dup
P93B-ROX-101816	

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 the PAH surrogate recovery for terphenyl-d_{14} was outside criteria in matrix spike and matrix spike duplicate P93C-ROX-101816 MS/MSD. VOC, SVOC and PAH MS/MSD recoveries were outside evaluation criteria in sample P93C-ROX-101816. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in sample P93A-ROX-101816 and LCSD 400-328209/3-A. VOCs were diluted in several samples to bring analyte concentrations within calibration range. Additionally, the continuing calibration verifications for 4-nitrophenol, diethyl phthalate, benzyl alcohol, and n-nitrosodi-n-propylamine were outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections below.

The continuing calibration verification for hexachlorobenzene and 2-nitrophenol exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that three of three coolers were received by the laboratory at temperatures of 0.4°C, 0.8°C, and 0.8°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P93C-ROX-101816 MS	PAHs	Terphenyl-d_{14}	**19**	33-138
P93C-ROX-101816 MSD	PAHs	Terphenyl-d_{14}	**16**	33-138

Matrix spike and matrix spike duplicate P93C-ROX-101816 MS/MSD are quality control samples, and do not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, sample P93C-ROX-101816 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
P93C-ROX-101816	VOCs	2-Chloroethyl vinyl ether	**9/7**	27	10-160/50
P93C-ROX-101816	SVOCs	Benzoic acid	**7/7**	0	10-134/49
P93C-ROX-101816	SVOCs	Dibenz[a,h]acridine	**0/0**	**NC**	42-147/40
P93C-ROX-101816	SVOCs	3,3'Dichlorobenzidine	**0/0**	**NC**	10-172/58
P93C-ROX-101816	SVOCs	Hexachlorocyclopentadiene	**0/0**	**NC**	10-151/50
P93C-ROX-101816	SVOCs	Indene	**0/0**	**NC**	22-130/40
P93C-ROX-101816	SVOCs	Quinoline	**0/0**	**NC**	10-180/40
P93C-ROX-101816	PAHs	Acenaphthene	**20/19**	2	35-113/49
P93C-ROX-101816	PAHs	Acenaphthylene	**19/19**	0	41-118/48
P93C-ROX-101816	PAHs	Anthracene	**20/20**	0	45-122/56
P93C-ROX-101816	PAHs	Benzo[a]anthracene	**20/18**	6	55-133/57
P93C-ROX-101816	PAHs	Benzo[a]pyrene	**19/18**	6	50-108/59
P93C-ROX-101816	PAHs	Benzo[b]fluoranthene	**20/20**	1	50-128/62
P93C-ROX-101816	PAHs	Benzo[g,h,i]perylene	**19/18**	7	46-133/58
P93C-ROX-101816	PAHs	Benzo[k]fluoranthene	**18/17**	2	52-128/58
P93C-ROX-101816	PAHs	Chrysene	**17/17**	2	52-116/59
P93C-ROX-101816	PAHs	Dibenz(a,,h)anthracene	**21/19**	8	52-143/60
P93C-ROX-101816	PAHs	Fluoranthene	**20/20**	2	32-150/59
P93C-ROX-101816	PAHs	Indeno[1,2,3-cd]pyrene	**21/19**	8	41-141/58
P93C-ROX-101816	PAHs	Phenanthrene	**21/21**	0	36-125/69
P93C-ROX-101816	PAHs	Pyrene	**18/19**	5	41-127/58

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
P93A-ROX-101816	SVOCs	Perylene-d_{12}	**271540**	318637-1274546
LCSD 400-328209/3-A	SVOCs	Perylene-d_{12}	**878409**	919993-3679972

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below. LCSD 400-328209/3-A is a quality control sample and does not require qualification.

Sample ID	Parameter	Analyte	Qualification
P93A-ROX-101816	SVOCs	Dibenz[a,h]acridine	**UJ**
P93A-ROX-101816	SVOCs	Di-n-octyl phthalate	**J**

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
P93A-ROX-101816	P93A-ROX-101816-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

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

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

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verifications for 4-nitrophenol, diethyl phthalate, benzyl alcohol, and n-nitrosodi-n-propylamine were below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P93C-ROX-101816	SVOCs	Benzyl alcohol	-	**UJ**
P93C-ROX-101816	SVOCs	Diethyl phthalate	-	**UJ**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P93C-ROX-101816	SVOCs	4-Nitrophenol	-	UJ
P93C-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	UJ
P59-ROX-101816	SVOCs	Benzyl alcohol	-	UJ
P59-ROX-101816	SVOCs	Diethyl phthalate	-	UJ
P59-ROX-101816	SVOCs	4-Nitrophenol	-	UJ
P59-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	UJ
P93A-ROX-101816	SVOCs	Benzyl alcohol	-	UJ
P93A-ROX-101816	SVOCs	Diethyl phthalate	-	UJ
P93A-ROX-101816	SVOCs	4-Nitrophenol	-	UJ
P93A-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	UJ
P93A-ROX-101816-Dup	SVOCs	Benzyl alcohol	-	UJ
P93A-ROX-101816-Dup	SVOCs	Diethyl phthalate	-	UJ
P93A-ROX-101816-Dup	SVOCs	4-Nitrophenol	-	UJ
P93A-ROX-101816-Dup	SVOCs	N-nitrosodi-n-propylamine	-	UJ
P93B-ROX-101816	SVOCs	Benzyl alcohol	-	UJ
P93B-ROX-101816	SVOCs	Diethyl phthalate	-	UJ
P93B-ROX-101816	SVOCs	4-Nitrophenol	-	UJ
P93B-ROX-101816	SVOCs	N-nitrosodi-n-propylamine	-	UJ

TestAmerica

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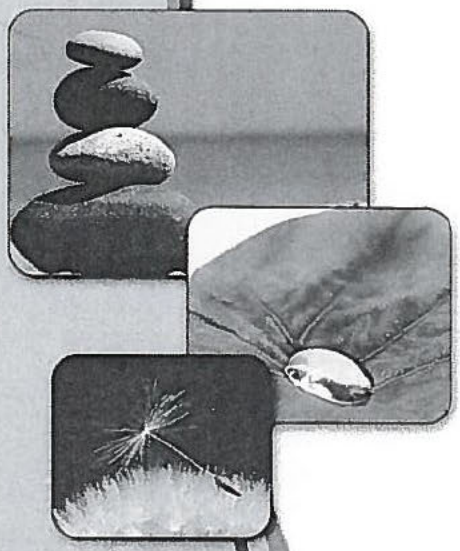

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-128903-1
TestAmerica SDG: 60477387 - 1.03.0044/1.03.004
Client Project/Site: ROXANA QUARTERLY (4Q16)

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
11/8/2016 5:47:34 PM

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LINKS

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Reviewed 12/2/2016 MH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Job ID: 400-128903-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-128903-1

Receipt
The samples were received on 10/19/2016 8:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.4°C, 0.8°C and 0.8°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328817 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-328817 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-101816-8260-SS (400-128903-1), P93C-ROX-101816 (400-128903-3), P59-ROX-101816 (400-128903-4) and P93A-ROX-101816-DUP (400-128903-6). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-328924 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-328924 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: P93A-ROX-101816 (400-128903-5) and P93B-ROX-101816 (400-128903-7). The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 400-329509 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Diethyl phthalate, N-Nitrosodi-n-propylamine and Benzyl alcohol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

The continuing calibration verification (CCV) associated with batch 400-329509 recovered above the upper control limit for 2-Nitrophenol and Hexachlorobenzene. The samples associated with this CCV were non-detects above the RL for the affected analytes; therefore, the data have been reported. The following samples are impacted: P93C-ROX-101816 (400-128903-3), P93C-ROX-101816 (400-128903-3[MS]), P93C-ROX-101816 (400-128903-3[MSD]), P59-ROX-101816 (400-128903-4), P93A-ROX-101816 (400-128903-5), P93A-ROX-101816-DUP (400-128903-6) and P93B-ROX-101816 (400-128903-7).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-328209 and analytical batch 400-329509 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D LL: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: P93C-ROX-101816 (400-128903-3[MS]) and P93C-ROX-101816 (400-128903-3[MSD]). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128903-1	TB-ROX-101816-8260-SS	Water	10/18/16 00:00	10/19/16 08:19
400-128903-2	TB-ROX-101816-8011-SS	Water	10/18/16 00:00	10/19/16 08:19
400-128903-3	P93C-ROX-101816	Water	10/18/16 09:35	10/19/16 08:19
400-128903-4	P59-ROX-101816	Water	10/18/16 09:45	10/19/16 08:19
400-128903-5	P93A-ROX-101816	Water	10/18/16 11:00	10/19/16 08:19
400-128903-6	P93A-ROX-101816-DUP	Water	10/18/16 11:00	10/19/16 08:19
400-128903-7	P93B-ROX-101816	Water	10/18/16 13:15	10/19/16 08:19

Detection Summary

Client: AECOM Technical Services Inc
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260-SS

Lab Sample ID: 400-128903-1

No Detections

Client Sample ID: TB-ROX-101816-8011-SS

Lab Sample ID: 400-128903-2

No Detections

Client Sample ID: P93C-ROX-101816

Lab Sample ID: 400-128903-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.6		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.048	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.063	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Di-n-octyl phthalate	0.46	J	9.5	0.42	ug/L	1		8270D	Total/NA

Client Sample ID: P59-ROX-101816

Lab Sample ID: 400-128903-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8700		50	19	ug/L	50		8260B	Total/NA
Ethylbenzene	2100		50	25	ug/L	50		8260B	Total/NA
Isopropylbenzene	50		50	27	ug/L	50		8260B	Total/NA
m-Xylene & p-Xylene	4200		250	80	ug/L	50		8260B	Total/NA
Naphthalene	190		50	50	ug/L	50		8260B	Total/NA
N-Propylbenzene	100		50	35	ug/L	50		8260B	Total/NA
o-Xylene	270		250	30	ug/L	50		8260B	Total/NA
Toluene	2300		50	35	ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	640		50	41	ug/L	50		8260B	Total/NA
Xylenes, Total	4500		500	80	ug/L	50		8260B	Total/NA
1-Methylnaphthalene	22		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	37		0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	2.5	J	9.8	2.2	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	45		9.8	3.4	ug/L	1		8270D	Total/NA
Phenol	94		9.8	2.5	ug/L	1		8270D	Total/NA

Client Sample ID: P93A-ROX-101816

Lab Sample ID: 400-128903-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2600		20	7.6	ug/L	20		8260B	Total/NA
1-Methylnaphthalene	0.14	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.068	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Di-n-octyl phthalate	0.93	J	10	0.44	ug/L	1		8270D	Total/NA
2-Nitrophenol	0.67	J	10	0.65	ug/L	1		8270D	Total/NA
Phenol	42		10	2.6	ug/L	1		8270D	Total/NA

Client Sample ID: P93A-ROX-101816-DUP

Lab Sample ID: 400-128903-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3300		20	7.6	ug/L	20		8260B	Total/NA
1-Methylnaphthalene	0.18	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.093	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Nitrophenol	1.7	J	10	0.65	ug/L	1		8270D	Total/NA
Phenol	51		10	2.6	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93B-ROX-101816

Lab Sample ID: 400-128903-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	86000		500	190	ug/L	500		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	2.4	J	10	2.3	ug/L	1		8270D	Total/NA
Phenol	85		10	2.6	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260-SS
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/29/16 11:55	1
Acrolein	ND		20	10	ug/L			10/29/16 11:55	1
Acrylonitrile	ND		10	2.8	ug/L			10/29/16 11:55	1
Benzene	ND		1.0	0.38	ug/L			10/29/16 11:55	1
Bromobenzene	ND		1.0	0.54	ug/L			10/29/16 11:55	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/29/16 11:55	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Bromoform	ND		5.0	0.71	ug/L			10/29/16 11:55	1
Bromomethane	ND		1.0	0.98	ug/L			10/29/16 11:55	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/29/16 11:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Chloroethane	ND		1.0	0.76	ug/L			10/29/16 11:55	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/29/16 11:55	1
Chloroform	ND		1.0	0.60	ug/L			10/29/16 11:55	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/29/16 11:55	1
Chloromethane	ND		1.0	0.83	ug/L			10/29/16 11:55	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 11:55	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/29/16 11:55	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/29/16 11:55	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/29/16 11:55	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/29/16 11:55	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/29/16 11:55	1
2-Hexanone	ND		25	3.1	ug/L			10/29/16 11:55	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/29/16 11:55	1
Methylene bromide	ND		5.0	0.59	ug/L			10/29/16 11:55	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/29/16 11:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/29/16 11:55	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/29/16 11:55	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/29/16 11:55	1
Naphthalene	ND		1.0	1.0	ug/L			10/29/16 11:55	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/29/16 11:55	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/29/16 11:55	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/29/16 11:55	1
o-Xylene	ND		5.0	0.60	ug/L			10/29/16 11:55	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/29/16 11:55	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/29/16 11:55	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8260-SS
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/29/16 11:55	1
Styrene	ND		1.0	1.0	ug/L			10/29/16 11:55	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/29/16 11:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/29/16 11:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/29/16 11:55	1
Toluene	ND		1.0	0.70	ug/L			10/29/16 11:55	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 11:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/29/16 11:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/29/16 11:55	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/29/16 11:55	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/29/16 11:55	1
Trichloroethene	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/29/16 11:55	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/29/16 11:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/29/16 11:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/29/16 11:55	1
Vinyl acetate	ND		25	2.0	ug/L			10/29/16 11:55	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/29/16 11:55	1
Xylenes, Total	ND		10	1.6	ug/L			10/29/16 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/29/16 11:55*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/29/16 11:55*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*10/29/16 11:55*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: TB-ROX-101816-8011-SS
Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 09:41	10/28/16 22:18	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 09:41	10/28/16 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*51 - 149*	*10/24/16 09:41*	*10/28/16 22:18*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/29/16 10:23	1
Acrolein	ND		20	10	ug/L			10/29/16 10:23	1
Acrylonitrile	ND		10	2.8	ug/L			10/29/16 10:23	1
Benzene	ND		1.0	0.38	ug/L			10/29/16 10:23	1
Bromobenzene	ND		1.0	0.54	ug/L			10/29/16 10:23	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/29/16 10:23	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Bromoform	ND		5.0	0.71	ug/L			10/29/16 10:23	1
Bromomethane	ND		1.0	0.98	ug/L			10/29/16 10:23	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/29/16 10:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Chloroethane	ND		1.0	0.76	ug/L			10/29/16 10:23	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/29/16 10:23	1
Chloroform	ND		1.0	0.60	ug/L			10/29/16 10:23	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/29/16 10:23	1
Chloromethane	ND		1.0	0.83	ug/L			10/29/16 10:23	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 10:23	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/29/16 10:23	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/29/16 10:23	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/29/16 10:23	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/29/16 10:23	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/29/16 10:23	1
2-Hexanone	ND		25	3.1	ug/L			10/29/16 10:23	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/29/16 10:23	1
Methylene bromide	ND		5.0	0.59	ug/L			10/29/16 10:23	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/29/16 10:23	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/29/16 10:23	1
Methyl tert-butyl ether	**2.6**		1.0	0.74	ug/L			10/29/16 10:23	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/29/16 10:23	1
Naphthalene	ND		1.0	1.0	ug/L			10/29/16 10:23	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/29/16 10:23	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/29/16 10:23	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/29/16 10:23	1
o-Xylene	ND		5.0	0.60	ug/L			10/29/16 10:23	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/29/16 10:23	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/29/16 10:23	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/29/16 10:23	1
Styrene	ND		1.0	1.0	ug/L			10/29/16 10:23	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/29/16 10:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/29/16 10:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/29/16 10:23	1
Toluene	ND		1.0	0.70	ug/L			10/29/16 10:23	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 10:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/29/16 10:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/29/16 10:23	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/29/16 10:23	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/29/16 10:23	1
Trichloroethene	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/29/16 10:23	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/29/16 10:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/29/16 10:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/29/16 10:23	1
Vinyl acetate	ND		25	2.0	ug/L			10/29/16 10:23	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/29/16 10:23	1
Xylenes, Total	ND		10	1.6	ug/L			10/29/16 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/29/16 10:23*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*10/29/16 10:23*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/29/16 10:23*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
Acenaphthylene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
Anthracene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
Benzo[a]anthracene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Benzo[a]pyrene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Benzo[b]fluoranthene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Benzo[g,h,i]perylene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Benzo[k]fluoranthene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Chrysene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Dibenz(a,h)anthracene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Fluoranthene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
Fluorene	ND		0.19	0.020	ug/L		10/25/16 13:53	10/26/16 18:25	1
Indeno[1,2,3-cd]pyrene	ND	F1	0.19	0.038	ug/L		10/25/16 13:53	10/26/16 18:25	1
Phenanthrene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
Pyrene	ND	F1	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
1-Methylnaphthalene	**0.048**	**J**	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1
2-Methylnaphthalene	**0.063**	**J**	0.19	0.019	ug/L		10/25/16 13:53	10/26/16 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*62*		*33 - 138*	*10/25/16 13:53*	*10/26/16 18:25*	*1*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/25/16 13:53*	*10/26/16 18:25*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	96		19 - 130	10/25/16 13:53	10/26/16 18:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	3.6	ug/L		10/25/16 13:53	11/03/16 17:40	1
Benzenethiol	ND		9.5	1.6	ug/L		10/25/16 13:53	11/03/16 17:40	1
Benzoic acid	ND	F1	29	7.0	ug/L		10/25/16 13:53	11/03/16 17:40	1
Benzyl alcohol	ND	UJ	9.5	1.9	ug/L		10/25/16 13:53	11/03/16 17:40	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		10/25/16 13:53	11/03/16 17:40	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		10/25/16 13:53	11/03/16 17:40	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		10/25/16 13:53	11/03/16 17:40	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.2	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		10/25/16 13:53	11/03/16 17:40	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Chloroaniline	ND		9.5	3.2	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		10/25/16 13:53	11/03/16 17:40	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		10/25/16 13:53	11/03/16 17:40	1
2-Chlorophenol	ND		9.5	2.1	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		10/25/16 13:53	11/03/16 17:40	1
Dibenz[a,h]acridine	ND	F1	9.5	2.9	ug/L		10/25/16 13:53	11/03/16 17:40	1
Dibenzofuran	ND		9.5	0.50	ug/L		10/25/16 13:53	11/03/16 17:40	1
3,3'-Dichlorobenzidine	ND	F1	9.5	2.5	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		10/25/16 13:53	11/03/16 17:40	1
Diethyl phthalate	ND	UJ	9.5	0.67	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		10/25/16 13:53	11/03/16 17:40	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		10/25/16 13:53	11/03/16 17:40	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		10/25/16 13:53	11/03/16 17:40	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		10/25/16 13:53	11/03/16 17:40	1
Di-n-octyl phthalate	0.46	J	9.5	0.42	ug/L		10/25/16 13:53	11/03/16 17:40	1
1,4-Dioxane	ND		9.5	0.95	ug/L		10/25/16 13:53	11/03/16 17:40	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		10/25/16 13:53	11/03/16 17:40	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		10/25/16 13:53	11/03/16 17:40	1
Hexachlorocyclopentadiene	ND	F1	19	2.5	ug/L		10/25/16 13:53	11/03/16 17:40	1
Hexachloroethane	ND		9.5	4.0	ug/L		10/25/16 13:53	11/03/16 17:40	1
Indene	ND	F1	9.5	0.95	ug/L		10/25/16 13:53	11/03/16 17:40	1
Isophorone	ND		9.5	0.54	ug/L		10/25/16 13:53	11/03/16 17:40	1
2-Methylphenol	ND		9.5	1.7	ug/L		10/25/16 13:53	11/03/16 17:40	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		10/25/16 13:53	11/03/16 17:40	1
2-Nitroaniline	ND		9.5	2.1	ug/L		10/25/16 13:53	11/03/16 17:40	1
3-Nitroaniline	ND		9.5	1.7	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Nitroaniline	ND		9.5	2.4	ug/L		10/25/16 13:53	11/03/16 17:40	1
Nitrobenzene	ND		9.5	0.52	ug/L		10/25/16 13:53	11/03/16 17:40	1
2-Nitrophenol	ND		9.5	0.62	ug/L		10/25/16 13:53	11/03/16 17:40	1
4-Nitrophenol	ND	UJ	9.5	2.0	ug/L		10/25/16 13:53	11/03/16 17:40	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		10/25/16 13:53	11/03/16 17:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	9.5	3.1	ug/L		10/25/16 13:53	11/03/16 17:40	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		10/25/16 13:53	11/03/16 17:40	1
Pentachlorophenol	ND		19	1.7	ug/L		10/25/16 13:53	11/03/16 17:40	1
Phenol	ND		9.5	2.5	ug/L		10/25/16 13:53	11/03/16 17:40	1
Pyridine	ND		9.5	3.0	ug/L		10/25/16 13:53	11/03/16 17:40	1
Quinoline	ND	F1	9.5	5.7	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		10/25/16 13:53	11/03/16 17:40	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		10/25/16 13:53	11/03/16 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*34 - 120*	*10/25/16 13:53*	*11/03/16 17:40*	*1*
2-Fluorophenol	*29*		*10 - 120*	*10/25/16 13:53*	*11/03/16 17:40*	*1*
Nitrobenzene-d5	*67*		*27 - 120*	*10/25/16 13:53*	*11/03/16 17:40*	*1*
Phenol-d5	*43*		*10 - 120*	*10/25/16 13:53*	*11/03/16 17:40*	*1*
Terphenyl-d14	*73*		*53 - 125*	*10/25/16 13:53*	*11/03/16 17:40*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/25/16 13:53*	*11/03/16 17:40*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 17:19	10/28/16 22:48	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 17:19	10/28/16 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*10/24/16 17:19*	*10/28/16 22:48*	*1*

Client Sample ID: P59-ROX-101816
Date Collected: 10/18/16 09:45
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1300	500	ug/L			10/29/16 18:29	50
Acrolein	ND		1000	500	ug/L			10/29/16 18:29	50
Acrylonitrile	ND		500	140	ug/L			10/29/16 18:29	50
Benzene	**8700**		50	19	ug/L			10/29/16 18:29	50
Bromobenzene	ND		50	27	ug/L			10/29/16 18:29	50
Bromochloromethane	ND		50	26	ug/L			10/29/16 18:29	50
Bromodichloromethane	ND		50	25	ug/L			10/29/16 18:29	50
Bromoform	ND		250	36	ug/L			10/29/16 18:29	50
Bromomethane	ND		50	49	ug/L			10/29/16 18:29	50
2-Butanone (MEK)	ND		1300	130	ug/L			10/29/16 18:29	50
Carbon disulfide	ND		50	25	ug/L			10/29/16 18:29	50
Carbon tetrachloride	ND		50	25	ug/L			10/29/16 18:29	50
Chlorobenzene	ND		50	25	ug/L			10/29/16 18:29	50
Dibromochloromethane	ND		50	25	ug/L			10/29/16 18:29	50
Chloroethane	ND		50	38	ug/L			10/29/16 18:29	50
2-Chloroethyl vinyl ether	ND		250	100	ug/L			10/29/16 18:29	50
Chloroform	ND		50	30	ug/L			10/29/16 18:29	50
1-Chlorohexane	ND		50	35	ug/L			10/29/16 18:29	50
Chloromethane	ND		50	42	ug/L			10/29/16 18:29	50
cis-1,2-Dichloroethene	ND		50	25	ug/L			10/29/16 18:29	50
cis-1,3-Dichloropropene	ND		250	25	ug/L			10/29/16 18:29	50
1,2-Dichlorobenzene	ND		50	25	ug/L			10/29/16 18:29	50
1,3-Dichlorobenzene	ND		50	27	ug/L			10/29/16 18:29	50
1,4-Dichlorobenzene	ND		50	32	ug/L			10/29/16 18:29	50
Dichlorodifluoromethane	ND		50	43	ug/L			10/29/16 18:29	50
1,1-Dichloroethane	ND		50	25	ug/L			10/29/16 18:29	50
1,2-Dichloroethane	ND		50	25	ug/L			10/29/16 18:29	50
1,1-Dichloroethene	ND		50	25	ug/L			10/29/16 18:29	50
1,2-Dichloropropane	ND		50	25	ug/L			10/29/16 18:29	50
1,3-Dichloropropane	ND		50	25	ug/L			10/29/16 18:29	50
2,2-Dichloropropane	ND		50	25	ug/L			10/29/16 18:29	50
1,1-Dichloropropene	ND		50	25	ug/L			10/29/16 18:29	50
Ethylbenzene	**2100**		50	25	ug/L			10/29/16 18:29	50
Ethyl methacrylate	ND		50	30	ug/L			10/29/16 18:29	50
Hexachlorobutadiene	ND		250	45	ug/L			10/29/16 18:29	50
2-Hexanone	ND		1300	160	ug/L			10/29/16 18:29	50
Isopropylbenzene	**50**		50	27	ug/L			10/29/16 18:29	50
Methylene bromide	ND		250	30	ug/L			10/29/16 18:29	50
Methylene Chloride	ND		250	150	ug/L			10/29/16 18:29	50
4-Methyl-2-pentanone (MIBK)	ND		1300	90	ug/L			10/29/16 18:29	50
Methyl tert-butyl ether	ND		50	37	ug/L			10/29/16 18:29	50
m-Xylene & p-Xylene	**4200**		250	80	ug/L			10/29/16 18:29	50
Naphthalene	**190**		50	50	ug/L			10/29/16 18:29	50
n-Butylbenzene	ND		50	38	ug/L			10/29/16 18:29	50
N-Propylbenzene	**100**		50	35	ug/L			10/29/16 18:29	50
o-Chlorotoluene	ND		50	29	ug/L			10/29/16 18:29	50
o-Xylene	**270**		250	30	ug/L			10/29/16 18:29	50
p-Chlorotoluene	ND		50	28	ug/L			10/29/16 18:29	50
p-Isopropyltoluene	ND		50	36	ug/L			10/29/16 18:29	50

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P59-ROX-101816
Date Collected: 10/18/16 09:45
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		50	35	ug/L			10/29/16 18:29	50
Styrene	ND		50	50	ug/L			10/29/16 18:29	50
tert-Butylbenzene	ND		50	32	ug/L			10/29/16 18:29	50
1,1,1,2-Tetrachloroethane	ND		50	26	ug/L			10/29/16 18:29	50
1,1,2,2-Tetrachloroethane	ND		50	25	ug/L			10/29/16 18:29	50
Tetrachloroethene	ND		50	29	ug/L			10/29/16 18:29	50
Toluene	**2300**		50	35	ug/L			10/29/16 18:29	50
trans-1,2-Dichloroethene	ND		50	25	ug/L			10/29/16 18:29	50
trans-1,3-Dichloropropene	ND		250	25	ug/L			10/29/16 18:29	50
1,2,3-Trichlorobenzene	ND		50	35	ug/L			10/29/16 18:29	50
1,2,4-Trichlorobenzene	ND		50	41	ug/L			10/29/16 18:29	50
1,1,1-Trichloroethane	ND		50	25	ug/L			10/29/16 18:29	50
1,1,2-Trichloroethane	ND		250	25	ug/L			10/29/16 18:29	50
Trichloroethene	ND		50	25	ug/L			10/29/16 18:29	50
Trichlorofluoromethane	ND		50	26	ug/L			10/29/16 18:29	50
1,2,3-Trichloropropane	ND		250	42	ug/L			10/29/16 18:29	50
1,2,4-Trimethylbenzene	**640**		50	41	ug/L			10/29/16 18:29	50
1,3,5-Trimethylbenzene	ND		50	28	ug/L			10/29/16 18:29	50
Vinyl acetate	ND		1300	100	ug/L			10/29/16 18:29	50
Vinyl chloride	ND		50	25	ug/L			10/29/16 18:29	50
Xylenes, Total	**4500**		500	80	ug/L			10/29/16 18:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/29/16 18:29*	*50*
Dibromofluoromethane	*103*		*81 - 121*		*10/29/16 18:29*	*50*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/29/16 18:29*	*50*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Chrysene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Fluorene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		10/25/16 13:53	10/26/16 18:50	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
1-Methylnaphthalene	**22**		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1
2-Methylnaphthalene	**37**		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*49*		*33 - 138*	*10/25/16 13:53*	*10/26/16 18:50*	*1*
2-Fluorobiphenyl	*54*		*15 - 122*	*10/25/16 13:53*	*10/26/16 18:50*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P59-ROX-101816
Date Collected: 10/18/16 09:45
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		19 - 130	10/25/16 13:53	10/26/16 18:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.8	3.7	ug/L		10/25/16 13:53	11/03/16 18:10	1
Benzenethiol	ND		9.8	1.7	ug/L		10/25/16 13:53	11/03/16 18:10	1
Benzoic acid	ND		29	7.1	ug/L		10/25/16 13:53	11/03/16 18:10	1
Benzyl alcohol	ND	UJ	9.8	2.0	ug/L		10/25/16 13:53	11/03/16 18:10	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		10/25/16 13:53	11/03/16 18:10	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		10/25/16 13:53	11/03/16 18:10	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		10/25/16 13:53	11/03/16 18:10	1
Bis(2-ethylhexyl) phthalate	**2.5**	J	9.8	2.2	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		10/25/16 13:53	11/03/16 18:10	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Chloroaniline	ND		9.8	3.3	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		10/25/16 13:53	11/03/16 18:10	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		10/25/16 13:53	11/03/16 18:10	1
2-Chlorophenol	ND		9.8	2.1	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		10/25/16 13:53	11/03/16 18:10	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		10/25/16 13:53	11/03/16 18:10	1
Dibenzofuran	ND		9.8	0.51	ug/L		10/25/16 13:53	11/03/16 18:10	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		10/25/16 13:53	11/03/16 18:10	1
Diethyl phthalate	ND	UJ	9.8	0.68	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4-Dimethylphenol	**45**		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 18:10	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		10/25/16 13:53	11/03/16 18:10	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		10/25/16 13:53	11/03/16 18:10	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		10/25/16 13:53	11/03/16 18:10	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		10/25/16 13:53	11/03/16 18:10	1
1,4-Dioxane	ND		9.8	0.98	ug/L		10/25/16 13:53	11/03/16 18:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		10/25/16 13:53	11/03/16 18:10	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		10/25/16 13:53	11/03/16 18:10	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		10/25/16 13:53	11/03/16 18:10	1
Hexachloroethane	ND		9.8	4.1	ug/L		10/25/16 13:53	11/03/16 18:10	1
Indene	ND		9.8	0.98	ug/L		10/25/16 13:53	11/03/16 18:10	1
Isophorone	ND		9.8	0.56	ug/L		10/25/16 13:53	11/03/16 18:10	1
2-Methylphenol	ND		9.8	1.8	ug/L		10/25/16 13:53	11/03/16 18:10	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	11/03/16 18:10	1
2-Nitroaniline	ND		9.8	2.1	ug/L		10/25/16 13:53	11/03/16 18:10	1
3-Nitroaniline	ND		9.8	1.8	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Nitroaniline	ND		9.8	2.4	ug/L		10/25/16 13:53	11/03/16 18:10	1
Nitrobenzene	ND		9.8	0.54	ug/L		10/25/16 13:53	11/03/16 18:10	1
2-Nitrophenol	ND		9.8	0.63	ug/L		10/25/16 13:53	11/03/16 18:10	1
4-Nitrophenol	ND	UJ	9.8	2.0	ug/L		10/25/16 13:53	11/03/16 18:10	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 18:10	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P59-ROX-101816
Date Collected: 10/18/16 09:45
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	9.8	3.2	ug/L		10/25/16 13:53	11/03/16 18:10	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		10/25/16 13:53	11/03/16 18:10	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 18:10	1
Phenol	94		9.8	2.5	ug/L		10/25/16 13:53	11/03/16 18:10	1
Pyridine	ND		9.8	3.1	ug/L		10/25/16 13:53	11/03/16 18:10	1
Quinoline	ND		9.8	5.9	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		10/25/16 13:53	11/03/16 18:10	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		10/25/16 13:53	11/03/16 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 120*	*10/25/16 13:53*	*11/03/16 18:10*	*1*
2-Fluorophenol	*12*		*10 - 120*	*10/25/16 13:53*	*11/03/16 18:10*	*1*
Nitrobenzene-d5	*65*		*27 - 120*	*10/25/16 13:53*	*11/03/16 18:10*	*1*
Phenol-d5	*57*		*10 - 120*	*10/25/16 13:53*	*11/03/16 18:10*	*1*
Terphenyl-d14	*59*		*53 - 125*	*10/25/16 13:53*	*11/03/16 18:10*	*1*
2,4,6-Tribromophenol	*133*		*15 - 135*	*10/25/16 13:53*	*11/03/16 18:10*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 17:19	10/29/16 00:17	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/24/16 17:19	10/29/16 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/24/16 17:19*	*10/29/16 00:17*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		500	200	ug/L			10/31/16 02:01	20
Acrolein	ND		400	200	ug/L			10/31/16 02:01	20
Acrylonitrile	ND		200	56	ug/L			10/31/16 02:01	20
Benzene	2600		20	7.6	ug/L			10/31/16 02:01	20
Bromobenzene	ND		20	11	ug/L			10/31/16 02:01	20
Bromochloromethane	ND		20	10	ug/L			10/31/16 02:01	20
Bromodichloromethane	ND		20	10	ug/L			10/31/16 02:01	20
Bromoform	ND		100	14	ug/L			10/31/16 02:01	20
Bromomethane	ND		20	20	ug/L			10/31/16 02:01	20
2-Butanone (MEK)	ND		500	52	ug/L			10/31/16 02:01	20
Carbon disulfide	ND		20	10	ug/L			10/31/16 02:01	20
Carbon tetrachloride	ND		20	10	ug/L			10/31/16 02:01	20
Chlorobenzene	ND		20	10	ug/L			10/31/16 02:01	20
Dibromochloromethane	ND		20	10	ug/L			10/31/16 02:01	20
Chloroethane	ND		20	15	ug/L			10/31/16 02:01	20
2-Chloroethyl vinyl ether	ND		100	40	ug/L			10/31/16 02:01	20
Chloroform	ND		20	12	ug/L			10/31/16 02:01	20
1-Chlorohexane	ND		20	14	ug/L			10/31/16 02:01	20
Chloromethane	ND		20	17	ug/L			10/31/16 02:01	20
cis-1,2-Dichloroethene	ND		20	10	ug/L			10/31/16 02:01	20
cis-1,3-Dichloropropene	ND		100	10	ug/L			10/31/16 02:01	20
1,2-Dichlorobenzene	ND		20	10	ug/L			10/31/16 02:01	20
1,3-Dichlorobenzene	ND		20	11	ug/L			10/31/16 02:01	20
1,4-Dichlorobenzene	ND		20	13	ug/L			10/31/16 02:01	20
Dichlorodifluoromethane	ND		20	17	ug/L			10/31/16 02:01	20
1,1-Dichloroethane	ND		20	10	ug/L			10/31/16 02:01	20
1,2-Dichloroethane	ND		20	10	ug/L			10/31/16 02:01	20
1,1-Dichloroethene	ND		20	10	ug/L			10/31/16 02:01	20
1,2-Dichloropropane	ND		20	10	ug/L			10/31/16 02:01	20
1,3-Dichloropropane	ND		20	10	ug/L			10/31/16 02:01	20
2,2-Dichloropropane	ND		20	10	ug/L			10/31/16 02:01	20
1,1-Dichloropropene	ND		20	10	ug/L			10/31/16 02:01	20
Ethylbenzene	ND		20	10	ug/L			10/31/16 02:01	20
Ethyl methacrylate	ND		20	12	ug/L			10/31/16 02:01	20
Hexachlorobutadiene	ND		100	18	ug/L			10/31/16 02:01	20
2-Hexanone	ND		500	62	ug/L			10/31/16 02:01	20
Isopropylbenzene	ND		20	11	ug/L			10/31/16 02:01	20
Methylene bromide	ND		100	12	ug/L			10/31/16 02:01	20
Methylene Chloride	ND		100	60	ug/L			10/31/16 02:01	20
4-Methyl-2-pentanone (MIBK)	ND		500	36	ug/L			10/31/16 02:01	20
Methyl tert-butyl ether	ND		20	15	ug/L			10/31/16 02:01	20
m-Xylene & p-Xylene	ND		100	32	ug/L			10/31/16 02:01	20
Naphthalene	ND		20	20	ug/L			10/31/16 02:01	20
n-Butylbenzene	ND		20	15	ug/L			10/31/16 02:01	20
N-Propylbenzene	ND		20	14	ug/L			10/31/16 02:01	20
o-Chlorotoluene	ND		20	11	ug/L			10/31/16 02:01	20
o-Xylene	ND		100	12	ug/L			10/31/16 02:01	20
p-Chlorotoluene	ND		20	11	ug/L			10/31/16 02:01	20
p-Isopropyltoluene	ND		20	14	ug/L			10/31/16 02:01	20

Client Sample ID: P93A-ROX-101816
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		20	14	ug/L			10/31/16 02:01	20
Styrene	ND		20	20	ug/L			10/31/16 02:01	20
tert-Butylbenzene	ND		20	13	ug/L			10/31/16 02:01	20
1,1,1,2-Tetrachloroethane	ND		20	10	ug/L			10/31/16 02:01	20
1,1,2,2-Tetrachloroethane	ND		20	10	ug/L			10/31/16 02:01	20
Tetrachloroethene	ND		20	12	ug/L			10/31/16 02:01	20
Toluene	ND		20	14	ug/L			10/31/16 02:01	20
trans-1,2-Dichloroethene	ND		20	10	ug/L			10/31/16 02:01	20
trans-1,3-Dichloropropene	ND		100	10	ug/L			10/31/16 02:01	20
1,2,3-Trichlorobenzene	ND		20	14	ug/L			10/31/16 02:01	20
1,2,4-Trichlorobenzene	ND		20	16	ug/L			10/31/16 02:01	20
1,1,1-Trichloroethane	ND		20	10	ug/L			10/31/16 02:01	20
1,1,2-Trichloroethane	ND		100	10	ug/L			10/31/16 02:01	20
Trichloroethene	ND		20	10	ug/L			10/31/16 02:01	20
Trichlorofluoromethane	ND		20	10	ug/L			10/31/16 02:01	20
1,2,3-Trichloropropane	ND		100	17	ug/L			10/31/16 02:01	20
1,2,4-Trimethylbenzene	ND		20	16	ug/L			10/31/16 02:01	20
1,3,5-Trimethylbenzene	ND		20	11	ug/L			10/31/16 02:01	20
Vinyl acetate	ND		500	40	ug/L			10/31/16 02:01	20
Vinyl chloride	ND		20	10	ug/L			10/31/16 02:01	20
Xylenes, Total	ND		200	32	ug/L			10/31/16 02:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/31/16 02:01*	*20*
Dibromofluoromethane	*111*		*81 - 121*		*10/31/16 02:01*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/16 02:01*	*20*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
Fluorene	ND		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 19:16	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:16	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
1-Methylnaphthalene	0.14	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1
2-Methylnaphthalene	0.068	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*33 - 138*	*10/25/16 13:53*	*10/26/16 19:16*	*1*
2-Fluorobiphenyl	*88*		*15 - 122*	*10/25/16 13:53*	*10/26/16 19:16*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		19 - 130	10/25/16 13:53	10/26/16 19:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 18:40	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	11/03/16 18:40	1
Benzoic acid	ND		30	7.3	ug/L		10/25/16 13:53	11/03/16 18:40	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 18:40	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	11/03/16 18:40	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	11/03/16 18:40	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	11/03/16 18:40	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 18:40	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 18:40	1
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Dibenz[a,h]acridine	ND	UJ	10	3.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Dibenzofuran	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 18:40	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Diethyl phthalate	ND	UJ	10	0.70	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 18:40	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	11/03/16 18:40	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	11/03/16 18:40	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 18:40	1
Di-n-octyl phthalate	**0.93**	J J	10	0.44	ug/L		10/25/16 13:53	11/03/16 18:40	1
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	11/03/16 18:40	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	11/03/16 18:40	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	11/03/16 18:40	1
Indene	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	11/03/16 18:40	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 18:40	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 18:40	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Nitroaniline	ND		10	2.5	ug/L		10/25/16 13:53	11/03/16 18:40	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	11/03/16 18:40	1
2-Nitrophenol	**0.67**	J	10	0.65	ug/L		10/25/16 13:53	11/03/16 18:40	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		10/25/16 13:53	11/03/16 18:40	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 18:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	10	3.3	ug/L		10/25/16 13:53	11/03/16 18:40	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	11/03/16 18:40	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 18:40	1
Phenol	42		10	2.6	ug/L		10/25/16 13:53	11/03/16 18:40	1
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	11/03/16 18:40	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	11/03/16 18:40	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*34 - 120*	*10/25/16 13:53*	*11/03/16 18:40*	*1*
2-Fluorophenol	*52*		*10 - 120*	*10/25/16 13:53*	*11/03/16 18:40*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*10/25/16 13:53*	*11/03/16 18:40*	*1*
Phenol-d5	*59*		*10 - 120*	*10/25/16 13:53*	*11/03/16 18:40*	*1*
Terphenyl-d14	*116*		*53 - 125*	*10/25/16 13:53*	*11/03/16 18:40*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/25/16 13:53*	*11/03/16 18:40*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 17:19	10/29/16 00:46	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 17:19	10/29/16 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*51 - 149*	*10/24/16 17:19*	*10/29/16 00:46*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816-DUP
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		500	200	ug/L			10/29/16 18:06	20
Acrolein	ND		400	200	ug/L			10/29/16 18:06	20
Acrylonitrile	ND		200	56	ug/L			10/29/16 18:06	20
Benzene	3300		20	7.6	ug/L			10/29/16 18:06	20
Bromobenzene	ND		20	11	ug/L			10/29/16 18:06	20
Bromochloromethane	ND		20	10	ug/L			10/29/16 18:06	20
Bromodichloromethane	ND		20	10	ug/L			10/29/16 18:06	20
Bromoform	ND		100	14	ug/L			10/29/16 18:06	20
Bromomethane	ND		20	20	ug/L			10/29/16 18:06	20
2-Butanone (MEK)	ND		500	52	ug/L			10/29/16 18:06	20
Carbon disulfide	ND		20	10	ug/L			10/29/16 18:06	20
Carbon tetrachloride	ND		20	10	ug/L			10/29/16 18:06	20
Chlorobenzene	ND		20	10	ug/L			10/29/16 18:06	20
Dibromochloromethane	ND		20	10	ug/L			10/29/16 18:06	20
Chloroethane	ND		20	15	ug/L			10/29/16 18:06	20
2-Chloroethyl vinyl ether	ND		100	40	ug/L			10/29/16 18:06	20
Chloroform	ND		20	12	ug/L			10/29/16 18:06	20
1-Chlorohexane	ND		20	14	ug/L			10/29/16 18:06	20
Chloromethane	ND		20	17	ug/L			10/29/16 18:06	20
cis-1,2-Dichloroethene	ND		20	10	ug/L			10/29/16 18:06	20
cis-1,3-Dichloropropene	ND		100	10	ug/L			10/29/16 18:06	20
1,2-Dichlorobenzene	ND		20	10	ug/L			10/29/16 18:06	20
1,3-Dichlorobenzene	ND		20	11	ug/L			10/29/16 18:06	20
1,4-Dichlorobenzene	ND		20	13	ug/L			10/29/16 18:06	20
Dichlorodifluoromethane	ND		20	17	ug/L			10/29/16 18:06	20
1,1-Dichloroethane	ND		20	10	ug/L			10/29/16 18:06	20
1,2-Dichloroethane	ND		20	10	ug/L			10/29/16 18:06	20
1,1-Dichloroethene	ND		20	10	ug/L			10/29/16 18:06	20
1,2-Dichloropropane	ND		20	10	ug/L			10/29/16 18:06	20
1,3-Dichloropropane	ND		20	10	ug/L			10/29/16 18:06	20
2,2-Dichloropropane	ND		20	10	ug/L			10/29/16 18:06	20
1,1-Dichloropropene	ND		20	10	ug/L			10/29/16 18:06	20
Ethylbenzene	ND		20	10	ug/L			10/29/16 18:06	20
Ethyl methacrylate	ND		20	12	ug/L			10/29/16 18:06	20
Hexachlorobutadiene	ND		100	18	ug/L			10/29/16 18:06	20
2-Hexanone	ND		500	62	ug/L			10/29/16 18:06	20
Isopropylbenzene	ND		20	11	ug/L			10/29/16 18:06	20
Methylene bromide	ND		100	12	ug/L			10/29/16 18:06	20
Methylene Chloride	ND		100	60	ug/L			10/29/16 18:06	20
4-Methyl-2-pentanone (MIBK)	ND		500	36	ug/L			10/29/16 18:06	20
Methyl tert-butyl ether	ND		20	15	ug/L			10/29/16 18:06	20
m-Xylene & p-Xylene	ND		100	32	ug/L			10/29/16 18:06	20
Naphthalene	ND		20	20	ug/L			10/29/16 18:06	20
n-Butylbenzene	ND		20	15	ug/L			10/29/16 18:06	20
N-Propylbenzene	ND		20	14	ug/L			10/29/16 18:06	20
o-Chlorotoluene	ND		20	11	ug/L			10/29/16 18:06	20
o-Xylene	ND		100	12	ug/L			10/29/16 18:06	20
p-Chlorotoluene	ND		20	11	ug/L			10/29/16 18:06	20
p-Isopropyltoluene	ND		20	14	ug/L			10/29/16 18:06	20

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816-DUP
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		20	14	ug/L			10/29/16 18:06	20
Styrene	ND		20	20	ug/L			10/29/16 18:06	20
tert-Butylbenzene	ND		20	13	ug/L			10/29/16 18:06	20
1,1,1,2-Tetrachloroethane	ND		20	10	ug/L			10/29/16 18:06	20
1,1,2,2-Tetrachloroethane	ND		20	10	ug/L			10/29/16 18:06	20
Tetrachloroethene	ND		20	12	ug/L			10/29/16 18:06	20
Toluene	ND		20	14	ug/L			10/29/16 18:06	20
trans-1,2-Dichloroethene	ND		20	10	ug/L			10/29/16 18:06	20
trans-1,3-Dichloropropene	ND		100	10	ug/L			10/29/16 18:06	20
1,2,3-Trichlorobenzene	ND		20	14	ug/L			10/29/16 18:06	20
1,2,4-Trichlorobenzene	ND		20	16	ug/L			10/29/16 18:06	20
1,1,1-Trichloroethane	ND		20	10	ug/L			10/29/16 18:06	20
1,1,2-Trichloroethane	ND		100	10	ug/L			10/29/16 18:06	20
Trichloroethene	ND		20	10	ug/L			10/29/16 18:06	20
Trichlorofluoromethane	ND		20	10	ug/L			10/29/16 18:06	20
1,2,3-Trichloropropane	ND		100	17	ug/L			10/29/16 18:06	20
1,2,4-Trimethylbenzene	ND		20	16	ug/L			10/29/16 18:06	20
1,3,5-Trimethylbenzene	ND		20	11	ug/L			10/29/16 18:06	20
Vinyl acetate	ND		500	40	ug/L			10/29/16 18:06	20
Vinyl chloride	ND		20	10	ug/L			10/29/16 18:06	20
Xylenes, Total	ND		200	32	ug/L			10/29/16 18:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*10/29/16 18:06*	*20*
Dibromofluoromethane	*103*		*81 - 121*		*10/29/16 18:06*	*20*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/29/16 18:06*	*20*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
Fluorene	ND		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 19:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 19:42	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
1-Methylnaphthalene	0.18	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1
2-Methylnaphthalene	0.093	J	0.20	0.020	ug/L		10/25/16 13:53	10/26/16 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*86*		*33 - 138*	*10/25/16 13:53*	*10/26/16 19:42*	*1*
2-Fluorobiphenyl	*93*		*15 - 122*	*10/25/16 13:53*	*10/26/16 19:42*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816-DUP
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*103*		*19 - 130*	*10/25/16 13:53*	*10/26/16 19:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 19:10	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	11/03/16 19:10	1
Benzoic acid	ND		30	7.3	ug/L		10/25/16 13:53	11/03/16 19:10	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 19:10	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	11/03/16 19:10	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	11/03/16 19:10	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	11/03/16 19:10	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 19:10	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 19:10	1
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Dibenzofuran	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 19:10	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Diethyl phthalate	ND	UJ	10	0.70	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:10	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	11/03/16 19:10	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	11/03/16 19:10	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 19:10	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/25/16 13:53	11/03/16 19:10	1
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	11/03/16 19:10	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	11/03/16 19:10	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	11/03/16 19:10	1
Indene	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	11/03/16 19:10	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 19:10	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 19:10	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Nitroaniline	ND		10	2.5	ug/L		10/25/16 13:53	11/03/16 19:10	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	11/03/16 19:10	1
2-Nitrophenol	1.7	J	10	0.65	ug/L		10/25/16 13:53	11/03/16 19:10	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		10/25/16 13:53	11/03/16 19:10	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:10	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816-DUP
Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	10	3.3	ug/L		10/25/16 13:53	11/03/16 19:10	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	11/03/16 19:10	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 19:10	1
Phenol	51		10	2.6	ug/L		10/25/16 13:53	11/03/16 19:10	1
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	11/03/16 19:10	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	11/03/16 19:10	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/25/16 13:53*	*11/03/16 19:10*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/25/16 13:53*	*11/03/16 19:10*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*10/25/16 13:53*	*11/03/16 19:10*	*1*
Phenol-d5	*60*		*10 - 120*	*10/25/16 13:53*	*11/03/16 19:10*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/25/16 13:53*	*11/03/16 19:10*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*10/25/16 13:53*	*11/03/16 19:10*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/24/16 17:19	10/29/16 01:45	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/24/16 17:19	10/29/16 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*122*		*51 - 149*	*10/24/16 17:19*	*10/29/16 01:45*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93B-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		13000	5000	ug/L			10/31/16 02:53	500
Acrolein	ND		10000	5000	ug/L			10/31/16 02:53	500
Acrylonitrile	ND		5000	1400	ug/L			10/31/16 02:53	500
Benzene	86000		500	190	ug/L			10/31/16 02:53	500
Bromobenzene	ND		500	270	ug/L			10/31/16 02:53	500
Bromochloromethane	ND		500	260	ug/L			10/31/16 02:53	500
Bromodichloromethane	ND		500	250	ug/L			10/31/16 02:53	500
Bromoform	ND		2500	360	ug/L			10/31/16 02:53	500
Bromomethane	ND		500	490	ug/L			10/31/16 02:53	500
2-Butanone (MEK)	ND		13000	1300	ug/L			10/31/16 02:53	500
Carbon disulfide	ND		500	250	ug/L			10/31/16 02:53	500
Carbon tetrachloride	ND		500	250	ug/L			10/31/16 02:53	500
Chlorobenzene	ND		500	250	ug/L			10/31/16 02:53	500
Dibromochloromethane	ND		500	250	ug/L			10/31/16 02:53	500
Chloroethane	ND		500	380	ug/L			10/31/16 02:53	500
2-Chloroethyl vinyl ether	ND		2500	1000	ug/L			10/31/16 02:53	500
Chloroform	ND		500	300	ug/L			10/31/16 02:53	500
1-Chlorohexane	ND		500	350	ug/L			10/31/16 02:53	500
Chloromethane	ND		500	420	ug/L			10/31/16 02:53	500
cis-1,2-Dichloroethene	ND		500	250	ug/L			10/31/16 02:53	500
cis-1,3-Dichloropropene	ND		2500	250	ug/L			10/31/16 02:53	500
1,2-Dichlorobenzene	ND		500	250	ug/L			10/31/16 02:53	500
1,3-Dichlorobenzene	ND		500	270	ug/L			10/31/16 02:53	500
1,4-Dichlorobenzene	ND		500	320	ug/L			10/31/16 02:53	500
Dichlorodifluoromethane	ND		500	430	ug/L			10/31/16 02:53	500
1,1-Dichloroethane	ND		500	250	ug/L			10/31/16 02:53	500
1,2-Dichloroethane	ND		500	250	ug/L			10/31/16 02:53	500
1,1-Dichloroethene	ND		500	250	ug/L			10/31/16 02:53	500
1,2-Dichloropropane	ND		500	250	ug/L			10/31/16 02:53	500
1,3-Dichloropropane	ND		500	250	ug/L			10/31/16 02:53	500
2,2-Dichloropropane	ND		500	250	ug/L			10/31/16 02:53	500
1,1-Dichloropropene	ND		500	250	ug/L			10/31/16 02:53	500
Ethylbenzene	ND		500	250	ug/L			10/31/16 02:53	500
Ethyl methacrylate	ND		500	300	ug/L			10/31/16 02:53	500
Hexachlorobutadiene	ND		2500	450	ug/L			10/31/16 02:53	500
2-Hexanone	ND		13000	1600	ug/L			10/31/16 02:53	500
Isopropylbenzene	ND		500	270	ug/L			10/31/16 02:53	500
Methylene bromide	ND		2500	300	ug/L			10/31/16 02:53	500
Methylene Chloride	ND		2500	1500	ug/L			10/31/16 02:53	500
4-Methyl-2-pentanone (MIBK)	ND		13000	900	ug/L			10/31/16 02:53	500
Methyl tert-butyl ether	ND		500	370	ug/L			10/31/16 02:53	500
m-Xylene & p-Xylene	ND		2500	800	ug/L			10/31/16 02:53	500
Naphthalene	ND		500	500	ug/L			10/31/16 02:53	500
n-Butylbenzene	ND		500	380	ug/L			10/31/16 02:53	500
N-Propylbenzene	ND		500	350	ug/L			10/31/16 02:53	500
o-Chlorotoluene	ND		500	290	ug/L			10/31/16 02:53	500
o-Xylene	ND		2500	300	ug/L			10/31/16 02:53	500
p-Chlorotoluene	ND		500	280	ug/L			10/31/16 02:53	500
p-Isopropyltoluene	ND		500	360	ug/L			10/31/16 02:53	500

Client Sample ID: P93B-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		500	350	ug/L			10/31/16 02:53	500
Styrene	ND		500	500	ug/L			10/31/16 02:53	500
tert-Butylbenzene	ND		500	320	ug/L			10/31/16 02:53	500
1,1,1,2-Tetrachloroethane	ND		500	260	ug/L			10/31/16 02:53	500
1,1,2,2-Tetrachloroethane	ND		500	250	ug/L			10/31/16 02:53	500
Tetrachloroethene	ND		500	290	ug/L			10/31/16 02:53	500
Toluene	ND		500	350	ug/L			10/31/16 02:53	500
trans-1,2-Dichloroethene	ND		500	250	ug/L			10/31/16 02:53	500
trans-1,3-Dichloropropene	ND		2500	250	ug/L			10/31/16 02:53	500
1,2,3-Trichlorobenzene	ND		500	350	ug/L			10/31/16 02:53	500
1,2,4-Trichlorobenzene	ND		500	410	ug/L			10/31/16 02:53	500
1,1,1-Trichloroethane	ND		500	250	ug/L			10/31/16 02:53	500
1,1,2-Trichloroethane	ND		2500	250	ug/L			10/31/16 02:53	500
Trichloroethene	ND		500	250	ug/L			10/31/16 02:53	500
Trichlorofluoromethane	ND		500	260	ug/L			10/31/16 02:53	500
1,2,3-Trichloropropane	ND		2500	420	ug/L			10/31/16 02:53	500
1,2,4-Trimethylbenzene	ND		500	410	ug/L			10/31/16 02:53	500
1,3,5-Trimethylbenzene	ND		500	280	ug/L			10/31/16 02:53	500
Vinyl acetate	ND		13000	1000	ug/L			10/31/16 02:53	500
Vinyl chloride	ND		500	250	ug/L			10/31/16 02:53	500
Xylenes, Total	ND		5000	800	ug/L			10/31/16 02:53	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/31/16 02:53*	*500*
Dibromofluoromethane	*104*		*81 - 121*		*10/31/16 02:53*	*500*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/16 02:53*	*500*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
Fluorene	ND		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 20:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 20:07	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*33 - 138*	*10/25/16 13:53*	*10/26/16 20:07*	*1*
2-Fluorobiphenyl	*88*		*15 - 122*	*10/25/16 13:53*	*10/26/16 20:07*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93B-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*101*		*19 - 130*	*10/25/16 13:53*	*10/26/16 20:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 19:40	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	11/03/16 19:40	1
Benzoic acid	ND		30	7.3	ug/L		10/25/16 13:53	11/03/16 19:40	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 19:40	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	11/03/16 19:40	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	11/03/16 19:40	1
Bis(2-ethylhexyl) phthalate	**2.4**	**J**	10	2.3	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	11/03/16 19:40	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	11/03/16 19:40	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 19:40	1
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Dibenzofuran	ND		10	0.52	ug/L		10/25/16 13:53	11/03/16 19:40	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Diethyl phthalate	ND	UJ	10	0.70	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:40	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	11/03/16 19:40	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	11/03/16 19:40	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	11/03/16 19:40	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/25/16 13:53	11/03/16 19:40	1
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	11/03/16 19:40	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	11/03/16 19:40	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	11/03/16 19:40	1
Indene	ND		10	1.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	11/03/16 19:40	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 19:40	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	11/03/16 19:40	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Nitroaniline	ND		10	2.5	ug/L		10/25/16 13:53	11/03/16 19:40	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	11/03/16 19:40	1
2-Nitrophenol	ND		10	0.65	ug/L		10/25/16 13:53	11/03/16 19:40	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		10/25/16 13:53	11/03/16 19:40	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93B-ROX-101816
Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	UJ	10	3.3	ug/L		10/25/16 13:53	11/03/16 19:40	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	11/03/16 19:40	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	11/03/16 19:40	1
Phenol	85		10	2.6	ug/L		10/25/16 13:53	11/03/16 19:40	1
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	11/03/16 19:40	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	11/03/16 19:40	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	11/03/16 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/25/16 13:53*	*11/03/16 19:40*	*1*
2-Fluorophenol	*50*		*10 - 120*	*10/25/16 13:53*	*11/03/16 19:40*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/25/16 13:53*	*11/03/16 19:40*	*1*
Phenol-d5	*62*		*10 - 120*	*10/25/16 13:53*	*11/03/16 19:40*	*1*
Terphenyl-d14	*110*		*53 - 125*	*10/25/16 13:53*	*11/03/16 19:40*	*1*
2,4,6-Tribromophenol	*124*		*15 - 135*	*10/25/16 13:53*	*11/03/16 19:40*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/24/16 17:19	10/29/16 02:15	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/24/16 17:19	10/29/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*51 - 149*	*10/24/16 17:19*	*10/29/16 02:15*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-128903-1	TB-ROX-101816-8260-SS	91	105	111
400-128903-3	P93C-ROX-101816	93	105	109
400-128903-3 MS	P93C-ROX-101816	87	104	104
400-128903-3 MSD	P93C-ROX-101816	89	107	102
400-128903-4	P59-ROX-101816	90	103	109
400-128903-5	P93A-ROX-101816	92	111	100
400-128903-6	P93A-ROX-101816-DUP	91	103	110
400-128903-7	P93B-ROX-101816	103	104	96
400-129015-A-1 MS	Matrix Spike	101	101	97
400-129015-A-1 MSD	Matrix Spike Duplicate	101	101	95
LCS 400-328817/1002	Lab Control Sample	91	104	104
LCS 400-328924/1002	Lab Control Sample	104	102	98
MB 400-328817/4	Method Blank	92	106	104
MB 400-328924/13	Method Blank	100	113	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-128903-3	P93C-ROX-101816	68	29	67	43	73	83
400-128903-3 MS	P93C-ROX-101816	75	35	71	56	107	116
400-128903-3 MSD	P93C-ROX-101816	75	49	72	60	99	118
400-128903-4	P59-ROX-101816	66	12	65	57	59	133
400-128903-5	P93A-ROX-101816	68	52	70	59	116	86
400-128903-6	P93A-ROX-101816-DUP	70	56	71	60	98	88
400-128903-7	P93B-ROX-101816	78	50	76	62	110	124
LCS 400-328209/2-A	Lab Control Sample	99	73	83	80	90	97
LCSD 400-328209/3-A	Lab Control Sample Dup	73	68	71	81	89	87
MB 400-328209/1-A	Method Blank	79	71	76	74	79	86

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TPH	FBP	NBZ
Lab Sample ID	Client Sample ID	(33-138)	(15-122)	(19-130)
400-128903-3	P93C-ROX-101816	62	85	96
400-128903-3 MS	P93C-ROX-101816	19 X	18	20
400-128903-3 MSD	P93C-ROX-101816	16 X	18	20
400-128903-4	P59-ROX-101816	49	54	96
400-128903-5	P93A-ROX-101816	91	88	96
400-128903-6	P93A-ROX-101816-DUP	86	93	103
400-128903-7	P93B-ROX-101816	84	88	101
LCS 400-328209/2-A	Lab Control Sample	114	96	90
LCSD 400-328209/3-A	Lab Control Sample Dup	110	82	78
MB 400-328209/1-A	Method Blank	119	100	113

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-128903-2	TB-ROX-101816-8011-SS	104
400-128903-3	P93C-ROX-101816	101
400-128903-3 MS	P93C-ROX-101816	93
400-128903-3 MSD	P93C-ROX-101816	94
400-128903-4	P59-ROX-101816	106
400-128903-5	P93A-ROX-101816	94
400-128903-6	P93A-ROX-101816-DUP	122
400-128903-7	P93B-ROX-101816	114
LCS 400-327993/2-A	Lab Control Sample	96
MB 400-327993/1-A	Method Blank	106

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101816-8260-SS

Lab Sample ID: 400-128903-1

Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 11:55	RS	TAL PEN

Client Sample ID: TB-ROX-101816-8011-SS

Lab Sample ID: 400-128903-2

Date Collected: 10/18/16 00:00
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.1 mL	35 mL	327993	10/24/16 09:41	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 22:18	KH1	TAL PEN

Client Sample ID: P93C-ROX-101816

Lab Sample ID: 400-128903-3

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 10:23	RS	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 17:40	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 18:25	VC1	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 22:48	KH1	TAL PEN

Client Sample ID: P59-ROX-101816

Lab Sample ID: 400-128903-4

Date Collected: 10/18/16 09:45
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	328817	10/29/16 18:29	RS	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 18:10	KJA	TAL PEN
Total/NA	Prep	3520C			1025 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 18:50	VC1	TAL PEN
Total/NA	Prep	8011			34.1 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/29/16 00:17	KH1	TAL PEN

Client Sample ID: P93A-ROX-101816

Lab Sample ID: 400-128903-5

Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	5 mL	5 mL	328924	10/31/16 02:01	HLW	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93A-ROX-101816

Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 18:40	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 19:16	VC1	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/29/16 00:46	KH1	TAL PEN

Client Sample ID: P93A-ROX-101816-DUP

Date Collected: 10/18/16 11:00
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	5 mL	5 mL	328817	10/29/16 18:06	RS	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 19:10	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 19:42	VC1	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/29/16 01:45	KH1	TAL PEN

Client Sample ID: P93B-ROX-101816

Date Collected: 10/18/16 13:15
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	5 mL	5 mL	328924	10/31/16 02:53	HLW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 19:40	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 20:07	VC1	TAL PEN
Total/NA	Prep	8011			34.4 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/29/16 02:15	KH1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-327993/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327993	10/24/16 09:41	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 14:51	KH1	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328209/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 22:53	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 16:17	VC1	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328817/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 09:58	RS	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-328924/13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328924	10/30/16 18:14	HLW	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-327993/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	327993	10/24/16 09:41	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 15:21	KH1	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/26/16 23:27	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 16:42	VC1	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328817/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 09:03	RS	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-328924/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328924	10/30/16 16:43	HLW	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328374	10/27/16 00:01	DHW	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			328902	10/30/16 20:17	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		5			328286	10/26/16 17:08	VC1	TAL PEN

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 10:46	RS	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 16:39	KJA	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 17:34	VC1	TAL PEN
Total/NA	Prep	8011			34.4 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 23:17	KH1	TAL PEN

Client Sample ID: P93C-ROX-101816
Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Lab Sample ID: 400-128903-3 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328817	10/29/16 11:09	RS	TAL PEN
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D		1			329509	11/03/16 17:10	KJA	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Client Sample ID: P93C-ROX-101816

Lab Sample ID: 400-128903-3 MSD

Date Collected: 10/18/16 09:35
Date Received: 10/19/16 08:19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	1 mL	328209	10/25/16 13:53	KLR	TAL PEN
Total/NA	Analysis	8270D LL		1			328286	10/26/16 17:59	VC1	TAL PEN
Total/NA	Prep	8011			34.5 mL	35 mL	327993	10/24/16 17:19	KH1	TAL PEN
Total/NA	Analysis	8011		1			328933	10/28/16 23:47	KH1	TAL PEN

Client Sample ID: Matrix Spike

Lab Sample ID: 400-129015-A-1 MS

Date Collected: 10/19/16 15:20
Date Received: 10/21/16 09:24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328924	10/30/16 19:58	HLW	TAL PEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-129015-A-1 MSD

Date Collected: 10/19/16 15:20
Date Received: 10/21/16 09:24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	328924	10/30/16 20:24	HLW	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 328817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-1	TB-ROX-101816-8260-SS	Total/NA	Water	8260B	
400-128903-3	P93C-ROX-101816	Total/NA	Water	8260B	
400-128903-4	P59-ROX-101816	Total/NA	Water	8260B	
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	8260B	
MB 400-328817/4	Method Blank	Total/NA	Water	8260B	
LCS 400-328817/1002	Lab Control Sample	Total/NA	Water	8260B	
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	8260B	
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	8260B	

Analysis Batch: 328924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-5	P93A-ROX-101816	Total/NA	Water	8260B	
400-128903-7	P93B-ROX-101816	Total/NA	Water	8260B	
MB 400-328924/13	Method Blank	Total/NA	Water	8260B	
LCS 400-328924/1002	Lab Control Sample	Total/NA	Water	8260B	
400-129015-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-129015-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 328209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-3	P93C-ROX-101816	Total/NA	Water	3520C	
400-128903-4	P59-ROX-101816	Total/NA	Water	3520C	
400-128903-5	P93A-ROX-101816	Total/NA	Water	3520C	
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	3520C	
400-128903-7	P93B-ROX-101816	Total/NA	Water	3520C	
MB 400-328209/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	3520C	
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	3520C	

Analysis Batch: 328286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-3	P93C-ROX-101816	Total/NA	Water	8270D LL	328209
400-128903-4	P59-ROX-101816	Total/NA	Water	8270D LL	328209
400-128903-5	P93A-ROX-101816	Total/NA	Water	8270D LL	328209
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	8270D LL	328209
400-128903-7	P93B-ROX-101816	Total/NA	Water	8270D LL	328209
MB 400-328209/1-A	Method Blank	Total/NA	Water	8270D LL	328209
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	8270D LL	328209
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	328209
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	8270D LL	328209
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	8270D LL	328209

Analysis Batch: 328374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-328209/1-A	Method Blank	Total/NA	Water	8270D	328209
LCS 400-328209/2-A	Lab Control Sample	Total/NA	Water	8270D	328209

GC/MS Semi VOA (Continued)

Analysis Batch: 328374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328209

Analysis Batch: 328902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-328209/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	328209

Analysis Batch: 329509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-3	P93C-ROX-101816	Total/NA	Water	8270D	328209
400-128903-4	P59-ROX-101816	Total/NA	Water	8270D	328209
400-128903-5	P93A-ROX-101816	Total/NA	Water	8270D	328209
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	8270D	328209
400-128903-7	P93B-ROX-101816	Total/NA	Water	8270D	328209
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	8270D	328209
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	8270D	328209

GC Semi VOA

Prep Batch: 327993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-2	TB-ROX-101816-8011-SS	Total/NA	Water	8011	
400-128903-3	P93C-ROX-101816	Total/NA	Water	8011	
400-128903-4	P59-ROX-101816	Total/NA	Water	8011	
400-128903-5	P93A-ROX-101816	Total/NA	Water	8011	
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	8011	
400-128903-7	P93B-ROX-101816	Total/NA	Water	8011	
MB 400-327993/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-327993/2-A	Lab Control Sample	Total/NA	Water	8011	
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	8011	
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	8011	

Analysis Batch: 328933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128903-2	TB-ROX-101816-8011-SS	Total/NA	Water	8011	327993
400-128903-3	P93C-ROX-101816	Total/NA	Water	8011	327993
400-128903-4	P59-ROX-101816	Total/NA	Water	8011	327993
400-128903-5	P93A-ROX-101816	Total/NA	Water	8011	327993
400-128903-6	P93A-ROX-101816-DUP	Total/NA	Water	8011	327993
400-128903-7	P93B-ROX-101816	Total/NA	Water	8011	327993
MB 400-327993/1-A	Method Blank	Total/NA	Water	8011	327993
LCS 400-327993/2-A	Lab Control Sample	Total/NA	Water	8011	327993
400-128903-3 MS	P93C-ROX-101816	Total/NA	Water	8011	327993
400-128903-3 MSD	P93C-ROX-101816	Total/NA	Water	8011	327993

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328817/4
Matrix: Water
Analysis Batch: 328817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/29/16 09:58	1
Acrolein	ND		20	10	ug/L			10/29/16 09:58	1
Acrylonitrile	ND		10	2.8	ug/L			10/29/16 09:58	1
Benzene	ND		1.0	0.38	ug/L			10/29/16 09:58	1
Bromobenzene	ND		1.0	0.54	ug/L			10/29/16 09:58	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/29/16 09:58	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Bromoform	ND		5.0	0.71	ug/L			10/29/16 09:58	1
Bromomethane	ND		1.0	0.98	ug/L			10/29/16 09:58	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/29/16 09:58	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Chloroethane	ND		1.0	0.76	ug/L			10/29/16 09:58	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/29/16 09:58	1
Chloroform	ND		1.0	0.60	ug/L			10/29/16 09:58	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/29/16 09:58	1
Chloromethane	ND		1.0	0.83	ug/L			10/29/16 09:58	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 09:58	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/29/16 09:58	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/29/16 09:58	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/29/16 09:58	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/29/16 09:58	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/29/16 09:58	1
2-Hexanone	ND		25	3.1	ug/L			10/29/16 09:58	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/29/16 09:58	1
Methylene bromide	ND		5.0	0.59	ug/L			10/29/16 09:58	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/29/16 09:58	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/29/16 09:58	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/29/16 09:58	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/29/16 09:58	1
Naphthalene	ND		1.0	1.0	ug/L			10/29/16 09:58	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/29/16 09:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/29/16 09:58	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/29/16 09:58	1
o-Xylene	ND		5.0	0.60	ug/L			10/29/16 09:58	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/29/16 09:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328817/4
Matrix: Water
Analysis Batch: 328817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/29/16 09:58	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/29/16 09:58	1
Styrene	ND		1.0	1.0	ug/L			10/29/16 09:58	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/29/16 09:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/29/16 09:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/29/16 09:58	1
Toluene	ND		1.0	0.70	ug/L			10/29/16 09:58	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/29/16 09:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/29/16 09:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/29/16 09:58	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/29/16 09:58	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/29/16 09:58	1
Trichloroethene	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/29/16 09:58	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/29/16 09:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/29/16 09:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/29/16 09:58	1
Vinyl acetate	ND		25	2.0	ug/L			10/29/16 09:58	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/29/16 09:58	1
Xylenes, Total	ND		10	1.6	ug/L			10/29/16 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/29/16 09:58*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*10/29/16 09:58*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/29/16 09:58*	*1*

Lab Sample ID: LCS 400-328817/1002
Matrix: Water
Analysis Batch: 328817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	252		ug/L		126	43 - 160
Acrolein	500	528		ug/L		106	38 - 160
Acrylonitrile	500	511		ug/L		102	64 - 142
Benzene	50.0	50.1		ug/L		100	70 - 130
Bromobenzene	50.0	50.6		ug/L		101	70 - 132
Bromochloromethane	50.0	49.9		ug/L		100	70 - 130
Bromodichloromethane	50.0	44.8		ug/L		90	67 - 133
Bromoform	50.0	38.8		ug/L		78	57 - 140
Bromomethane	50.0	42.3		ug/L		85	10 - 160
2-Butanone (MEK)	200	227		ug/L		114	61 - 145
Carbon disulfide	50.0	40.6		ug/L		81	61 - 137
Carbon tetrachloride	50.0	48.9		ug/L		98	61 - 137
Chlorobenzene	50.0	53.6		ug/L		107	70 - 130
Dibromochloromethane	50.0	46.6		ug/L		93	67 - 135
Chloroethane	50.0	54.7		ug/L		109	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328817/1002
Matrix: Water
Analysis Batch: 328817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	31.2		ug/L		62	10 - 160
Chloroform	50.0	51.5		ug/L		103	69 - 130
1-Chlorohexane	50.0	51.9		ug/L		104	69 - 130
Chloromethane	50.0	39.9		ug/L		80	58 - 137
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	68 - 130
cis-1,3-Dichloropropene	50.0	47.9		ug/L		96	69 - 132
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	67 - 130
1,3-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	55.0		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	37.3		ug/L		75	41 - 146
1,1-Dichloroethane	50.0	51.5		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	52.9		ug/L		106	69 - 130
1,1-Dichloroethene	50.0	47.4		ug/L		95	63 - 134
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
1,3-Dichloropropane	50.0	52.5		ug/L		105	70 - 130
2,2-Dichloropropane	50.0	45.5		ug/L		91	52 - 135
1,1-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
Ethyl methacrylate	50.0	46.7		ug/L		93	68 - 130
Hexachlorobutadiene	50.0	50.7		ug/L		101	53 - 140
2-Hexanone	200	221		ug/L		110	65 - 137
Isopropylbenzene	50.0	51.7		ug/L		103	70 - 130
Methylene bromide	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	45.5		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	210		ug/L		105	69 - 138
Methyl tert-butyl ether	50.0	44.8		ug/L		90	66 - 130
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	70 - 130
Naphthalene	50.0	48.2		ug/L		96	47 - 149
n-Butylbenzene	50.0	57.4		ug/L		115	67 - 130
N-Propylbenzene	50.0	54.1		ug/L		108	70 - 130
o-Chlorotoluene	50.0	52.1		ug/L		104	70 - 130
o-Xylene	50.0	49.8		ug/L		100	70 - 130
p-Chlorotoluene	50.0	50.8		ug/L		102	70 - 130
p-Isopropyltoluene	50.0	55.0		ug/L		110	65 - 130
sec-Butylbenzene	50.0	54.8		ug/L		110	66 - 130
Styrene	50.0	50.9		ug/L		102	70 - 130
tert-Butylbenzene	50.0	53.2		ug/L		106	64 - 139
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	67 - 131
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/L		104	70 - 131
Tetrachloroethene	50.0	47.9		ug/L		96	65 - 130
Toluene	50.0	51.1		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	44.5		ug/L		89	63 - 130
1,2,3-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 138
1,2,4-Trichlorobenzene	50.0	52.2		ug/L		104	60 - 140
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	68 - 130
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	70 - 130
Trichloroethene	50.0	51.1		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328817/1002
Matrix: Water
Analysis Batch: 328817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	51.7		ug/L		103	65 - 138
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	69 - 130
Vinyl acetate	100	107		ug/L		107	26 - 160
Vinyl chloride	50.0	47.1		ug/L		94	59 - 136
Xylenes, Total	100	99.6		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 328817

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	137		ug/L		69	43 - 160
Acrolein	ND		500	414		ug/L		83	38 - 160
Acrylonitrile	ND		500	427		ug/L		85	62 - 149
Benzene	ND		50.0	46.1		ug/L		92	56 - 142
Bromobenzene	ND		50.0	46.9		ug/L		94	59 - 136
Bromochloromethane	ND		50.0	46.9		ug/L		94	64 - 140
Bromodichloromethane	ND		50.0	41.9		ug/L		84	59 - 143
Bromoform	ND		50.0	33.8		ug/L		68	50 - 140
Bromomethane	ND		50.0	38.2		ug/L		76	10 - 160
2-Butanone (MEK)	ND		200	154		ug/L		77	55 - 150
Carbon disulfide	ND		50.0	36.7		ug/L		73	48 - 152
Carbon tetrachloride	ND		50.0	44.6		ug/L		89	55 - 145
Chlorobenzene	ND		50.0	49.9		ug/L		100	64 - 130
Dibromochloromethane	ND		50.0	42.1		ug/L		84	56 - 143
Chloroethane	ND		50.0	54.5		ug/L		109	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	4.45	J F1	ug/L		9	10 - 160
Chloroform	ND		50.0	47.3		ug/L		95	60 - 141
1-Chlorohexane	ND		50.0	48.3		ug/L		97	56 - 136
Chloromethane	ND		50.0	37.5		ug/L		75	49 - 148
cis-1,2-Dichloroethene	ND		50.0	45.8		ug/L		92	59 - 143
cis-1,3-Dichloropropene	ND		50.0	43.8		ug/L		88	57 - 140
1,2-Dichlorobenzene	ND		50.0	47.8		ug/L		96	52 - 137
1,3-Dichlorobenzene	ND		50.0	47.5		ug/L		95	54 - 135
1,4-Dichlorobenzene	ND		50.0	47.8		ug/L		96	53 - 135
Dichlorodifluoromethane	ND		50.0	34.7		ug/L		69	16 - 160
1,1-Dichloroethane	ND		50.0	46.9		ug/L		94	61 - 144
1,2-Dichloroethane	ND		50.0	47.1		ug/L		94	60 - 141
1,1-Dichloroethene	ND		50.0	44.5		ug/L		89	54 - 147
1,2-Dichloropropane	ND		50.0	47.3		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	47.3		ug/L		95	66 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 328817

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	41.4		ug/L		83	42 - 144
1,1-Dichloropropene	ND		50.0	48.1		ug/L		96	65 - 136
Ethylbenzene	ND		50.0	47.2		ug/L		94	58 - 131
Ethyl methacrylate	ND		50.0	41.0		ug/L		82	64 - 130
Hexachlorobutadiene	ND		50.0	44.3		ug/L		89	31 - 149
2-Hexanone	ND		200	157		ug/L		79	65 - 140
Isopropylbenzene	ND		50.0	48.7		ug/L		97	56 - 133
Methylene bromide	ND		50.0	47.6		ug/L		95	63 - 138
Methylene Chloride	ND		50.0	42.6		ug/L		85	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	172		ug/L		86	63 - 146
Methyl tert-butyl ether	2.6		50.0	41.9		ug/L		79	59 - 137
m-Xylene & p-Xylene	ND		50.0	47.2		ug/L		94	57 - 130
Naphthalene	ND		50.0	38.8		ug/L		78	25 - 160
n-Butylbenzene	ND		50.0	51.4		ug/L		103	41 - 142
N-Propylbenzene	ND		50.0	48.8		ug/L		98	51 - 138
o-Chlorotoluene	ND		50.0	46.8		ug/L		94	53 - 134
o-Xylene	ND		50.0	46.4		ug/L		93	61 - 130
p-Chlorotoluene	ND		50.0	46.3		ug/L		93	54 - 133
p-Isopropyltoluene	ND		50.0	48.6		ug/L		97	48 - 139
sec-Butylbenzene	ND		50.0	48.9		ug/L		98	50 - 138
Styrene	ND		50.0	46.6		ug/L		93	58 - 131
tert-Butylbenzene	ND		50.0	48.4		ug/L		97	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	42.6		ug/L		85	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	45.7		ug/L		91	66 - 135
Tetrachloroethene	ND		50.0	42.6		ug/L		85	52 - 133
Toluene	ND		50.0	48.7		ug/L		97	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.1		ug/L		92	61 - 143
trans-1,3-Dichloropropene	ND		50.0	40.0		ug/L		80	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	42.8		ug/L		86	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	43.5		ug/L		87	39 - 148
1,1,1-Trichloroethane	ND		50.0	44.4		ug/L		89	57 - 142
1,1,2-Trichloroethane	ND		50.0	47.7		ug/L		95	66 - 131
Trichloroethene	ND		50.0	48.3		ug/L		97	64 - 136
Trichlorofluoromethane	ND		50.0	50.7		ug/L		101	54 - 156
1,2,3-Trichloropropane	ND		50.0	43.9		ug/L		88	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.9		ug/L		94	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	47.6		ug/L		95	52 - 135
Vinyl acetate	ND		100	99.5		ug/L		100	26 - 160
Vinyl chloride	ND		50.0	44.6		ug/L		89	46 - 152
Xylenes, Total	ND		100	93.6		ug/L		94	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 328817

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	146		ug/L		73	43 - 160	6	30
Acrolein	ND		500	467		ug/L		93	38 - 160	12	31
Acrylonitrile	ND		500	457		ug/L		91	62 - 149	7	30
Benzene	ND		50.0	47.2		ug/L		94	56 - 142	2	30
Bromobenzene	ND		50.0	47.1		ug/L		94	59 - 136	0	30
Bromochloromethane	ND		50.0	47.9		ug/L		96	64 - 140	2	30
Bromodichloromethane	ND		50.0	43.8		ug/L		88	59 - 143	5	30
Bromoform	ND		50.0	34.9		ug/L		70	50 - 140	3	30
Bromomethane	ND		50.0	45.9		ug/L		92	10 - 160	18	50
2-Butanone (MEK)	ND		200	157		ug/L		79	55 - 150	2	30
Carbon disulfide	ND		50.0	38.9		ug/L		78	48 - 152	6	30
Carbon tetrachloride	ND		50.0	43.9		ug/L		88	55 - 145	2	30
Chlorobenzene	ND		50.0	48.7		ug/L		97	64 - 130	2	30
Dibromochloromethane	ND		50.0	40.6		ug/L		81	56 - 143	4	30
Chloroethane	ND		50.0	51.7		ug/L		103	50 - 151	5	30
2-Chloroethyl vinyl ether	ND	F1	50.0	3.39	J F1	ug/L		7	10 - 160	27	50
Chloroform	ND		50.0	48.7		ug/L		97	60 - 141	3	30
1-Chlorohexane	ND		50.0	45.7		ug/L		91	56 - 136	5	30
Chloromethane	ND		50.0	40.1		ug/L		80	49 - 148	7	31
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	43.8		ug/L		88	57 - 140	0	30
1,2-Dichlorobenzene	ND		50.0	48.2		ug/L		96	52 - 137	1	30
1,3-Dichlorobenzene	ND		50.0	47.1		ug/L		94	54 - 135	1	30
1,4-Dichlorobenzene	ND		50.0	47.4		ug/L		95	53 - 135	1	30
Dichlorodifluoromethane	ND		50.0	37.1		ug/L		74	16 - 160	6	31
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144	6	30
1,2-Dichloroethane	ND		50.0	49.1		ug/L		98	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	46.1		ug/L		92	54 - 147	4	30
1,2-Dichloropropane	ND		50.0	49.6		ug/L		99	66 - 137	5	30
1,3-Dichloropropane	ND		50.0	48.3		ug/L		97	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	43.0		ug/L		86	42 - 144	4	31
1,1-Dichloropropene	ND		50.0	48.1		ug/L		96	65 - 136	0	30
Ethylbenzene	ND		50.0	46.2		ug/L		92	58 - 131	2	30
Ethyl methacrylate	ND		50.0	42.2		ug/L		84	64 - 130	3	30
Hexachlorobutadiene	ND		50.0	43.7		ug/L		87	31 - 149	1	36
2-Hexanone	ND		200	164		ug/L		82	65 - 140	4	30
Isopropylbenzene	ND		50.0	47.9		ug/L		96	56 - 133	2	30
Methylene bromide	ND		50.0	48.9		ug/L		98	63 - 138	3	30
Methylene Chloride	ND		50.0	44.0		ug/L		88	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	184		ug/L		92	63 - 146	6	30
Methyl tert-butyl ether	2.6		50.0	44.9		ug/L		84	59 - 137	7	30
m-Xylene & p-Xylene	ND		50.0	47.0		ug/L		94	57 - 130	0	30
Naphthalene	ND		50.0	41.4		ug/L		83	25 - 160	6	30
n-Butylbenzene	ND		50.0	51.1		ug/L		102	41 - 142	1	31
N-Propylbenzene	ND		50.0	48.1		ug/L		96	51 - 138	2	30
o-Chlorotoluene	ND		50.0	46.6		ug/L		93	53 - 134	0	30
o-Xylene	ND		50.0	45.1		ug/L		90	61 - 130	3	30
p-Chlorotoluene	ND		50.0	45.9		ug/L		92	54 - 133	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 328817

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	49.1		ug/L		98	48 - 139	1	30
sec-Butylbenzene	ND		50.0	48.5		ug/L		97	50 - 138	1	30
Styrene	ND		50.0	45.2		ug/L		90	58 - 131	3	30
tert-Butylbenzene	ND		50.0	48.1		ug/L		96	54 - 146	1	30
1,1,1,2-Tetrachloroethane	ND		50.0	42.5		ug/L		85	59 - 137	0	30
1,1,2,2-Tetrachloroethane	ND		50.0	48.3		ug/L		97	66 - 135	6	30
Tetrachloroethene	ND		50.0	42.1		ug/L		84	52 - 133	1	30
Toluene	ND		50.0	46.8		ug/L		94	65 - 130	4	30
trans-1,2-Dichloroethene	ND		50.0	47.4		ug/L		95	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	39.6		ug/L		79	53 - 133	1	30
1,2,3-Trichlorobenzene	ND		50.0	45.1		ug/L		90	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	43.5		ug/L		87	39 - 148	0	30
1,1,1-Trichloroethane	ND		50.0	45.5		ug/L		91	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	46.7		ug/L		93	66 - 131	2	30
Trichloroethene	ND		50.0	49.4		ug/L		99	64 - 136	2	30
Trichlorofluoromethane	ND		50.0	51.5		ug/L		103	54 - 156	2	30
1,2,3-Trichloropropane	ND		50.0	45.2		ug/L		90	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	48.2		ug/L		96	50 - 139	3	30
1,3,5-Trimethylbenzene	ND		50.0	47.2		ug/L		94	52 - 135	1	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 160	4	33
Vinyl chloride	ND		50.0	46.4		ug/L		93	46 - 152	4	30
Xylenes, Total	ND		100	92.2		ug/L		92	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*78 - 118*
Dibromofluoromethane	*107*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 400-328924/13
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/30/16 18:14	1
Acrolein	ND		20	10	ug/L			10/30/16 18:14	1
Acrylonitrile	ND		10	2.8	ug/L			10/30/16 18:14	1
Benzene	ND		1.0	0.38	ug/L			10/30/16 18:14	1
Bromobenzene	ND		1.0	0.54	ug/L			10/30/16 18:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/30/16 18:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Bromoform	ND		5.0	0.71	ug/L			10/30/16 18:14	1
Bromomethane	ND		1.0	0.98	ug/L			10/30/16 18:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/30/16 18:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Chloroethane	ND		1.0	0.76	ug/L			10/30/16 18:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328924/13
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/30/16 18:14	1
Chloroform	ND		1.0	0.60	ug/L			10/30/16 18:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/30/16 18:14	1
Chloromethane	ND		1.0	0.83	ug/L			10/30/16 18:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/30/16 18:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/30/16 18:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/30/16 18:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/30/16 18:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/30/16 18:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/30/16 18:14	1
2-Hexanone	ND		25	3.1	ug/L			10/30/16 18:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/30/16 18:14	1
Methylene bromide	ND		5.0	0.59	ug/L			10/30/16 18:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/30/16 18:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/30/16 18:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/30/16 18:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/30/16 18:14	1
Naphthalene	ND		1.0	1.0	ug/L			10/30/16 18:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/30/16 18:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/30/16 18:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/30/16 18:14	1
o-Xylene	ND		5.0	0.60	ug/L			10/30/16 18:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/30/16 18:14	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/30/16 18:14	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/30/16 18:14	1
Styrene	ND		1.0	1.0	ug/L			10/30/16 18:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/30/16 18:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/30/16 18:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/30/16 18:14	1
Toluene	ND		1.0	0.70	ug/L			10/30/16 18:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/30/16 18:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/30/16 18:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/30/16 18:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/30/16 18:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/30/16 18:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/30/16 18:14	1
Trichloroethene	ND		1.0	0.50	ug/L			10/30/16 18:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328924/13
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/30/16 18:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/30/16 18:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/30/16 18:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/30/16 18:14	1
Vinyl acetate	ND		25	2.0	ug/L			10/30/16 18:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/30/16 18:14	1
Xylenes, Total	ND		10	1.6	ug/L			10/30/16 18:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*10/30/16 18:14*	*1*
Dibromofluoromethane	*113*		*81 - 121*		*10/30/16 18:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/30/16 18:14*	*1*

Lab Sample ID: LCS 400-328924/1002
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	185		ug/L		92	43 - 160
Acrolein	500	455		ug/L		91	38 - 160
Acrylonitrile	500	435		ug/L		87	64 - 142
Benzene	50.0	46.7		ug/L		93	70 - 130
Bromobenzene	50.0	44.0		ug/L		88	70 - 132
Bromochloromethane	50.0	46.3		ug/L		93	70 - 130
Bromodichloromethane	50.0	47.1		ug/L		94	67 - 133
Bromoform	50.0	43.2		ug/L		86	57 - 140
Bromomethane	50.0	52.3		ug/L		105	10 - 160
2-Butanone (MEK)	200	182		ug/L		91	61 - 145
Carbon disulfide	50.0	42.7		ug/L		85	61 - 137
Carbon tetrachloride	50.0	47.1		ug/L		94	61 - 137
Chlorobenzene	50.0	44.4		ug/L		89	70 - 130
Dibromochloromethane	50.0	47.4		ug/L		95	67 - 135
Chloroethane	50.0	44.2		ug/L		88	55 - 141
2-Chloroethyl vinyl ether	50.0	46.2		ug/L		92	10 - 160
Chloroform	50.0	46.7		ug/L		93	69 - 130
1-Chlorohexane	50.0	41.8		ug/L		84	69 - 130
Chloromethane	50.0	40.3		ug/L		81	58 - 137
cis-1,2-Dichloroethene	50.0	43.6		ug/L		87	68 - 130
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	69 - 132
1,2-Dichlorobenzene	50.0	40.3		ug/L		81	67 - 130
1,3-Dichlorobenzene	50.0	43.0		ug/L		86	70 - 130
1,4-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 130
Dichlorodifluoromethane	50.0	38.5		ug/L		77	41 - 146
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 130
1,2-Dichloroethane	50.0	44.4		ug/L		89	69 - 130
1,1-Dichloroethene	50.0	44.4		ug/L		89	63 - 134
1,2-Dichloropropane	50.0	46.1		ug/L		92	70 - 130
1,3-Dichloropropane	50.0	45.1		ug/L		90	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328924/1002
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	44.0		ug/L		88	52 - 135
1,1-Dichloropropene	50.0	46.0		ug/L		92	70 - 130
Ethylbenzene	50.0	42.8		ug/L		86	70 - 130
Ethyl methacrylate	50.0	42.3		ug/L		85	68 - 130
Hexachlorobutadiene	50.0	42.7		ug/L		85	53 - 140
2-Hexanone	200	171		ug/L		85	65 - 137
Isopropylbenzene	50.0	40.7		ug/L		81	70 - 130
Methylene bromide	50.0	44.1		ug/L		88	70 - 130
Methylene Chloride	50.0	45.4		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	69 - 138
Methyl tert-butyl ether	50.0	44.7		ug/L		89	66 - 130
m-Xylene & p-Xylene	50.0	42.2		ug/L		84	70 - 130
Naphthalene	50.0	39.9		ug/L		80	47 - 149
n-Butylbenzene	50.0	41.5		ug/L		83	67 - 130
N-Propylbenzene	50.0	44.0		ug/L		88	70 - 130
o-Chlorotoluene	50.0	39.9		ug/L		80	70 - 130
o-Xylene	50.0	41.9		ug/L		84	70 - 130
p-Chlorotoluene	50.0	44.3		ug/L		89	70 - 130
p-Isopropyltoluene	50.0	40.0		ug/L		80	65 - 130
sec-Butylbenzene	50.0	40.3		ug/L		81	66 - 130
Styrene	50.0	41.9		ug/L		84	70 - 130
tert-Butylbenzene	50.0	40.7		ug/L		81	64 - 139
1,1,1,2-Tetrachloroethane	50.0	43.1		ug/L		86	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	70 - 131
Tetrachloroethene	50.0	43.3		ug/L		87	65 - 130
Toluene	50.0	43.1		ug/L		86	70 - 130
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	63 - 130
1,2,3-Trichlorobenzene	50.0	38.7		ug/L		77	60 - 138
1,2,4-Trichlorobenzene	50.0	39.6		ug/L		79	60 - 140
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	70 - 130
Trichloroethene	50.0	45.5		ug/L		91	70 - 130
Trichlorofluoromethane	50.0	43.9		ug/L		88	65 - 138
1,2,3-Trichloropropane	50.0	43.0		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	50.0	41.0		ug/L		82	70 - 130
1,3,5-Trimethylbenzene	50.0	40.3		ug/L		81	69 - 130
Vinyl acetate	100	91.5		ug/L		91	26 - 160
Vinyl chloride	50.0	41.9		ug/L		84	59 - 136
Xylenes, Total	100	84.1		ug/L		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129015-A-1 MS
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	167		ug/L		84	43 - 160
Acrolein	ND		500	393		ug/L		79	38 - 160
Acrylonitrile	ND		500	531		ug/L		106	62 - 149
Benzene	ND		50.0	51.9		ug/L		104	56 - 142
Bromobenzene	ND		50.0	48.4		ug/L		97	59 - 136
Bromochloromethane	ND		50.0	51.1		ug/L		102	64 - 140
Bromodichloromethane	ND		50.0	51.2		ug/L		102	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	55.1		ug/L		110	10 - 160
2-Butanone (MEK)	ND		200	195		ug/L		98	55 - 150
Carbon disulfide	ND		50.0	48.7		ug/L		97	48 - 152
Carbon tetrachloride	ND		50.0	51.4		ug/L		103	55 - 145
Chlorobenzene	ND		50.0	52.3		ug/L		105	64 - 130
Dibromochloromethane	ND		50.0	52.6		ug/L		105	56 - 143
Chloroethane	ND		50.0	49.8		ug/L		100	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	3.47	J F1	ug/L		7	10 - 160
Chloroform	ND		50.0	52.4		ug/L		105	60 - 141
1-Chlorohexane	ND		50.0	48.0		ug/L		96	56 - 136
Chloromethane	ND		50.0	44.8		ug/L		90	49 - 148
cis-1,2-Dichloroethene	ND		50.0	50.1		ug/L		100	59 - 143
cis-1,3-Dichloropropene	ND		50.0	51.5		ug/L		103	57 - 140
1,2-Dichlorobenzene	ND		50.0	43.5		ug/L		87	52 - 137
1,3-Dichlorobenzene	ND		50.0	46.1		ug/L		92	54 - 135
1,4-Dichlorobenzene	ND		50.0	47.1		ug/L		94	53 - 135
Dichlorodifluoromethane	ND		50.0	43.1		ug/L		86	16 - 160
1,1-Dichloroethane	ND		50.0	50.3		ug/L		101	61 - 144
1,2-Dichloroethane	ND		50.0	51.4		ug/L		103	60 - 141
1,1-Dichloroethene	ND		50.0	48.8		ug/L		98	54 - 147
1,2-Dichloropropane	ND		50.0	52.1		ug/L		104	66 - 137
1,3-Dichloropropane	ND		50.0	50.6		ug/L		101	66 - 133
2,2-Dichloropropane	ND		50.0	46.4		ug/L		93	42 - 144
1,1-Dichloropropene	ND		50.0	51.3		ug/L		103	65 - 136
Ethylbenzene	ND		50.0	49.7		ug/L		99	58 - 131
Ethyl methacrylate	ND		50.0	51.4		ug/L		103	64 - 130
Hexachlorobutadiene	ND		50.0	44.6		ug/L		89	31 - 149
2-Hexanone	ND		200	192		ug/L		96	65 - 140
Isopropylbenzene	ND		50.0	46.8		ug/L		94	56 - 133
Methylene bromide	ND		50.0	51.4		ug/L		103	63 - 138
Methylene Chloride	ND		50.0	51.0		ug/L		102	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	211		ug/L		105	63 - 146
Methyl tert-butyl ether	ND		50.0	50.8		ug/L		102	59 - 137
m-Xylene & p-Xylene	ND		50.0	49.5		ug/L		99	57 - 130
Naphthalene	ND		50.0	47.1		ug/L		94	25 - 160
n-Butylbenzene	ND		50.0	42.4		ug/L		85	41 - 142
N-Propylbenzene	ND		50.0	47.8		ug/L		96	51 - 138
o-Chlorotoluene	ND		50.0	43.2		ug/L		86	53 - 134
o-Xylene	ND		50.0	47.7		ug/L		95	61 - 130
p-Chlorotoluene	ND		50.0	47.3		ug/L		95	54 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129015-A-1 MS
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	ND		50.0	43.5		ug/L		87	48 - 139
sec-Butylbenzene	ND		50.0	44.0		ug/L		88	50 - 138
Styrene	ND	F1	50.0	21.0	F1	ug/L		42	58 - 131
tert-Butylbenzene	ND		50.0	43.8		ug/L		88	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.3		ug/L		97	66 - 135
Tetrachloroethene	ND		50.0	46.5		ug/L		93	52 - 133
Toluene	ND		50.0	51.1		ug/L		102	65 - 130
trans-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	61 - 143
trans-1,3-Dichloropropene	ND		50.0	49.8		ug/L		100	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	43.2		ug/L		86	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	42.9		ug/L		86	39 - 148
1,1,1-Trichloroethane	ND		50.0	49.1		ug/L		98	57 - 142
1,1,2-Trichloroethane	ND		50.0	56.1		ug/L		112	66 - 131
Trichloroethene	ND		50.0	51.3		ug/L		103	64 - 136
Trichlorofluoromethane	ND		50.0	48.5		ug/L		97	54 - 156
1,2,3-Trichloropropane	ND		50.0	49.9		ug/L		100	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	44.4		ug/L		89	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	44.3		ug/L		89	52 - 135
Vinyl acetate	ND		100	51.4		ug/L		51	26 - 160
Vinyl chloride	ND		50.0	44.7		ug/L		89	46 - 152
Xylenes, Total	ND		100	97.2		ug/L		97	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-129015-A-1 MSD
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	156		ug/L		78	43 - 160	7	30
Acrolein	ND		500	341		ug/L		68	38 - 160	14	31
Acrylonitrile	ND		500	482		ug/L		96	62 - 149	10	30
Benzene	ND		50.0	47.9		ug/L		96	56 - 142	8	30
Bromobenzene	ND		50.0	45.6		ug/L		91	59 - 136	6	30
Bromochloromethane	ND		50.0	48.7		ug/L		97	64 - 140	5	30
Bromodichloromethane	ND		50.0	47.0		ug/L		94	59 - 143	8	30
Bromoform	ND		50.0	43.3		ug/L		87	50 - 140	9	30
Bromomethane	ND		50.0	50.8		ug/L		102	10 - 160	8	50
2-Butanone (MEK)	ND		200	171		ug/L		85	55 - 150	13	30
Carbon disulfide	ND		50.0	44.8		ug/L		90	48 - 152	8	30
Carbon tetrachloride	ND		50.0	46.8		ug/L		94	55 - 145	9	30
Chlorobenzene	ND		50.0	45.6		ug/L		91	64 - 130	14	30
Dibromochloromethane	ND		50.0	46.0		ug/L		92	56 - 143	13	30
Chloroethane	ND		50.0	44.8		ug/L		90	50 - 151	11	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129015-A-1 MSD
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.2		ug/L		94	60 - 141	10	30
1-Chlorohexane	ND		50.0	41.4		ug/L		83	56 - 136	15	30
Chloromethane	ND		50.0	41.4		ug/L		83	49 - 148	8	31
cis-1,2-Dichloroethene	ND		50.0	45.2		ug/L		90	59 - 143	10	30
cis-1,3-Dichloropropene	ND		50.0	46.4		ug/L		93	57 - 140	10	30
1,2-Dichlorobenzene	ND		50.0	40.4		ug/L		81	52 - 137	7	30
1,3-Dichlorobenzene	ND		50.0	41.6		ug/L		83	54 - 135	10	30
1,4-Dichlorobenzene	ND		50.0	42.5		ug/L		85	53 - 135	10	30
Dichlorodifluoromethane	ND		50.0	38.0		ug/L		76	16 - 160	12	31
1,1-Dichloroethane	ND		50.0	45.6		ug/L		91	61 - 144	10	30
1,2-Dichloroethane	ND		50.0	45.8		ug/L		92	60 - 141	12	30
1,1-Dichloroethene	ND		50.0	45.3		ug/L		91	54 - 147	8	30
1,2-Dichloropropane	ND		50.0	47.3		ug/L		95	66 - 137	10	30
1,3-Dichloropropane	ND		50.0	44.3		ug/L		89	66 - 133	13	30
2,2-Dichloropropane	ND		50.0	41.9		ug/L		84	42 - 144	10	31
1,1-Dichloropropene	ND		50.0	47.6		ug/L		95	65 - 136	8	30
Ethylbenzene	ND		50.0	43.2		ug/L		86	58 - 131	14	30
Ethyl methacrylate	ND		50.0	45.2		ug/L		90	64 - 130	13	30
Hexachlorobutadiene	ND		50.0	42.7		ug/L		85	31 - 149	4	36
2-Hexanone	ND		200	168		ug/L		84	65 - 140	13	30
Isopropylbenzene	ND		50.0	41.2		ug/L		82	56 - 133	13	30
Methylene bromide	ND		50.0	44.2		ug/L		88	63 - 138	15	30
Methylene Chloride	ND		50.0	45.9		ug/L		92	60 - 146	10	32
4-Methyl-2-pentanone (MIBK)	ND		200	190		ug/L		95	63 - 146	11	30
Methyl tert-butyl ether	ND		50.0	46.6		ug/L		93	59 - 137	9	30
m-Xylene & p-Xylene	ND		50.0	43.3		ug/L		87	57 - 130	13	30
Naphthalene	ND		50.0	43.6		ug/L		87	25 - 160	8	30
n-Butylbenzene	ND		50.0	39.5		ug/L		79	41 - 142	7	31
N-Propylbenzene	ND		50.0	43.4		ug/L		87	51 - 138	10	30
o-Chlorotoluene	ND		50.0	39.2		ug/L		78	53 - 134	10	30
o-Xylene	ND		50.0	42.6		ug/L		85	61 - 130	11	30
p-Chlorotoluene	ND		50.0	42.8		ug/L		86	54 - 133	10	30
p-Isopropyltoluene	ND		50.0	40.1		ug/L		80	48 - 139	8	30
sec-Butylbenzene	ND		50.0	40.7		ug/L		81	50 - 138	8	30
Styrene	ND	F1	50.0	16.1	F1	ug/L		32	58 - 131	26	30
tert-Butylbenzene	ND		50.0	40.5		ug/L		81	54 - 146	8	30
1,1,1,2-Tetrachloroethane	ND		50.0	42.8		ug/L		86	59 - 137	10	30
1,1,2,2-Tetrachloroethane	ND		50.0	44.1		ug/L		88	66 - 135	9	30
Tetrachloroethene	ND		50.0	40.0		ug/L		80	52 - 133	15	30
Toluene	ND		50.0	44.5		ug/L		89	65 - 130	14	30
trans-1,2-Dichloroethene	ND		50.0	48.0		ug/L		96	61 - 143	10	30
trans-1,3-Dichloropropene	ND		50.0	47.0		ug/L		94	53 - 133	6	30
1,2,3-Trichlorobenzene	ND		50.0	40.3		ug/L		81	43 - 145	7	30
1,2,4-Trichlorobenzene	ND		50.0	39.8		ug/L		80	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	45.6		ug/L		91	57 - 142	7	30
1,1,2-Trichloroethane	ND		50.0	48.5		ug/L		97	66 - 131	14	30
Trichloroethene	ND		50.0	48.1		ug/L		96	64 - 136	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-129015-A-1 MSD
Matrix: Water
Analysis Batch: 328924

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		50.0	44.6		ug/L		89	54 - 156	8	30
1,2,3-Trichloropropane	ND		50.0	46.1		ug/L		92	65 - 133	8	30
1,2,4-Trimethylbenzene	ND		50.0	40.2		ug/L		80	50 - 139	10	30
1,3,5-Trimethylbenzene	ND		50.0	39.9		ug/L		80	52 - 135	10	30
Vinyl acetate	ND		100	44.6		ug/L		45	26 - 160	14	33
Vinyl chloride	ND		50.0	42.9		ug/L		86	46 - 152	4	30
Xylenes, Total	ND		100	85.9		ug/L		86	59 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzenethiol	ND		10	1.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzoic acid	ND		30	7.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
Benzyl alcohol	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/25/16 13:53	10/26/16 22:53	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/25/16 13:53	10/26/16 22:53	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/25/16 13:53	10/26/16 22:53	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chloroaniline	ND		10	3.4	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Chlorophenol	ND		10	2.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dibenzofuran	ND		10	0.52	ug/L		10/25/16 13:53	10/26/16 22:53	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Diethyl phthalate	ND		10	0.70	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/25/16 13:53	10/26/16 22:53	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/25/16 13:53	10/26/16 22:53	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/25/16 13:53	10/26/16 22:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
Hexachloroethane	ND		10	4.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
Indene	ND		10	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
Isophorone	ND		10	0.57	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Methylphenol	ND		10	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Nitroaniline	ND		10	2.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
3-Nitroaniline	ND		10	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Nitroaniline	ND		10	2.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
Nitrobenzene	ND		10	0.55	ug/L		10/25/16 13:53	10/26/16 22:53	1
2-Nitrophenol	ND		10	0.65	ug/L		10/25/16 13:53	10/26/16 22:53	1
4-Nitrophenol	ND		10	2.1	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/25/16 13:53	10/26/16 22:53	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/25/16 13:53	10/26/16 22:53	1
Pentachlorophenol	ND		20	1.8	ug/L		10/25/16 13:53	10/26/16 22:53	1
Phenol	ND		10	2.6	ug/L		10/25/16 13:53	10/26/16 22:53	1
Pyridine	ND		10	3.2	ug/L		10/25/16 13:53	10/26/16 22:53	1
Quinoline	ND		10	6.0	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/25/16 13:53	10/26/16 22:53	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/25/16 13:53	10/26/16 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
2-Fluorophenol	*71*		*10 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Phenol-d5	*74*		*10 - 120*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
Terphenyl-d14	*79*		*53 - 125*	*10/25/16 13:53*	*10/26/16 22:53*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/25/16 13:53*	*10/26/16 22:53*	*1*

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	21.9		ug/L		73	10 - 145
Benzoic acid	126	37.5		ug/L		30	10 - 120
Benzyl alcohol	30.0	25.0		ug/L		83	51 - 121
Bis(2-chloroethoxy)methane	30.0	21.0		ug/L		70	54 - 123
Bis(2-chloroethyl)ether	30.0	23.7		ug/L		79	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.8		ug/L		79	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	24.2		ug/L		81	62 - 140
4-Bromophenyl phenyl ether	30.0	21.1		ug/L		70	62 - 132
Butyl benzyl phthalate	30.0	24.8		ug/L		83	51 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128
4-Chloro-3-methylphenol	30.0	25.8		ug/L		86	47 - 135
2-Chloronaphthalene	30.0	30.9		ug/L		103	24 - 150
2-Chlorophenol	30.0	23.5		ug/L		78	45 - 120
4-Chlorophenyl phenyl ether	30.0	30.6		ug/L		102	61 - 133
Dibenz[a,h]acridine	30.0	23.9		ug/L		80	60 - 131
Dibenzofuran	30.0	31.1		ug/L		104	62 - 124
3,3'-Dichlorobenzidine	40.0	31.1		ug/L		78	16 - 167
2,4-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125
Diethyl phthalate	30.0	31.8		ug/L		106	55 - 140
2,4-Dimethylphenol	30.0	23.2		ug/L		77	52 - 121
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133
Di-n-butyl phthalate	30.0	26.4		ug/L		88	59 - 144
4,6-Dinitro-ortho-cresol	60.0	44.2		ug/L		74	46 - 136
2,4-Dinitrophenol	101	53.5		ug/L		53	22 - 146
2,4-Dinitrotoluene	30.0	34.4		ug/L		115	54 - 141
2,6-Dinitrotoluene	30.0	25.0		ug/L		83	61 - 130
Di-n-octyl phthalate	30.0	36.9		ug/L		123	55 - 140
1,4-Dioxane	30.0	15.3		ug/L		51	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.2		ug/L		71	55 - 139
Hexachlorobenzene	30.0	21.2		ug/L		71	60 - 138
Hexachlorocyclopentadiene	30.0	19.6	J	ug/L		65	1 - 139
Hexachloroethane	30.0	21.2		ug/L		71	46 - 121
Indene	30.0	24.3		ug/L		81	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	23.7		ug/L		79	38 - 121
3 & 4 Methylphenol	30.0	25.7		ug/L		86	43 - 126
2-Nitroaniline	30.0	27.0		ug/L		90	52 - 135
3-Nitroaniline	30.0	23.5		ug/L		78	51 - 128
4-Nitroaniline	30.0	31.8		ug/L		106	38 - 141
Nitrobenzene	30.0	24.7		ug/L		82	52 - 128
2-Nitrophenol	30.0	22.0		ug/L		73	47 - 129
4-Nitrophenol	60.0	62.5		ug/L		104	34 - 137
N-Nitrosodimethylamine	30.0	23.3		ug/L		78	21 - 134
N-Nitrosodi-n-propylamine	30.0	27.6		ug/L		92	41 - 143
N-Nitrosodiphenylamine	29.8	25.6		ug/L		86	10 - 185
Pentachlorophenol	60.0	38.7		ug/L		65	38 - 138
Phenol	30.0	23.3		ug/L		78	37 - 120
Pyridine	30.0	15.9		ug/L		53	10 - 127
Quinoline	30.0	21.3		ug/L		71	10 - 164
2,4,5-Trichlorophenol	30.0	30.3		ug/L		101	53 - 130
2,4,6-Trichlorophenol	30.0	29.3		ug/L		98	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*34 - 120*
2-Fluorophenol	*73*		*10 - 120*
Nitrobenzene-d5	*83*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	*80*		*10 - 120*
Terphenyl-d14	*90*		*53 - 125*
2,4,6-Tribromophenol	*97*		*15 - 135*

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	23.8		ug/L		79	10 - 145	9	30
Benzoic acid	126	27.9	J	ug/L		22	10 - 120	29	30
Benzyl alcohol	30.0	22.2		ug/L		74	51 - 121	12	30
Bis(2-chloroethoxy)methane	30.0	21.6		ug/L		72	54 - 123	3	30
Bis(2-chloroethyl)ether	30.0	25.6		ug/L		85	47 - 120	7	30
bis (2-chloroisopropyl) ether	30.0	22.1		ug/L		74	20 - 142	7	30
Bis(2-ethylhexyl) phthalate	30.0	26.2		ug/L		87	62 - 140	8	30
4-Bromophenyl phenyl ether	30.0	24.5		ug/L		82	62 - 132	15	30
Butyl benzyl phthalate	30.0	26.4		ug/L		88	51 - 150	6	30
4-Chloroaniline	30.0	19.5		ug/L		65	32 - 128	0	30
4-Chloro-3-methylphenol	30.0	24.4		ug/L		81	47 - 135	6	30
2-Chloronaphthalene	30.0	23.5		ug/L		78	24 - 150	27	30
2-Chlorophenol	30.0	21.5		ug/L		72	45 - 120	9	30
4-Chlorophenyl phenyl ether	30.0	24.5		ug/L		82	61 - 133	22	30
Dibenzofuran	30.0	24.7		ug/L		82	62 - 124	23	30
3,3'-Dichlorobenzidine	40.0	32.7		ug/L		82	16 - 167	5	30
2,4-Dichlorophenol	30.0	22.9		ug/L		76	52 - 125	9	30
Diethyl phthalate	30.0	25.4		ug/L		85	55 - 140	23	30
2,4-Dimethylphenol	30.0	24.6		ug/L		82	52 - 121	6	30
Dimethyl phthalate	30.0	25.3		ug/L		84	50 - 133	2	30
Di-n-butyl phthalate	30.0	25.7		ug/L		86	59 - 144	3	30
4,6-Dinitro-ortho-cresol	60.0	42.9		ug/L		72	46 - 136	3	30
2,4-Dinitrophenol	101	47.8		ug/L		47	22 - 146	11	30
2,4-Dinitrotoluene	30.0	28.9		ug/L		96	54 - 141	17	30
2,6-Dinitrotoluene	30.0	25.6		ug/L		85	61 - 130	2	30
Di-n-octyl phthalate	30.0	27.8		ug/L		93	55 - 140	28	30
1,4-Dioxane	30.0	17.2		ug/L		57	10 - 130	12	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	25.0		ug/L		83	55 - 139	17	30
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138	18	30
Hexachlorocyclopentadiene	30.0	15.1	J	ug/L		50	1 - 139	26	30
Hexachloroethane	30.0	18.7		ug/L		62	46 - 121	13	30
Indene	30.0	21.7		ug/L		72	17 - 141	11	30
Isophorone	30.0	23.0		ug/L		77	57 - 122	11	30
2-Methylphenol	30.0	22.9		ug/L		76	38 - 121	3	30
3 & 4 Methylphenol	30.0	23.4		ug/L		78	43 - 126	10	30
2-Nitroaniline	30.0	27.1		ug/L		90	52 - 135	1	30
3-Nitroaniline	30.0	25.4		ug/L		85	51 - 128	8	30
4-Nitroaniline	30.0	25.9		ug/L		86	38 - 141	21	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	30.0	21.8		ug/L		73	52 - 128	12	30
2-Nitrophenol	30.0	21.7		ug/L		72	47 - 129	2	30
4-Nitrophenol	60.0	55.0		ug/L		92	34 - 137	13	30
N-Nitrosodimethylamine	30.0	22.8		ug/L		76	21 - 134	2	30
N-Nitrosodi-n-propylamine	30.0	24.0		ug/L		80	41 - 143	14	30
N-Nitrosodiphenylamine	29.8	25.2		ug/L		85	10 - 185	1	30
Pentachlorophenol	60.0	44.1		ug/L		74	38 - 138	13	30
Phenol	30.0	25.2		ug/L		84	37 - 120	8	30
Pyridine	30.0	17.8		ug/L		59	10 - 127	11	30
Quinoline	30.0	23.1		ug/L		77	10 - 164	8	30
2,4,5-Trichlorophenol	30.0	24.7		ug/L		82	53 - 130	20	30
2,4,6-Trichlorophenol	30.0	24.0		ug/L		80	52 - 131	20	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*81*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz[a,h]acridine	30.0	21.3		ug/L		71	60 - 131	12	30

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		28.6	15.6		ug/L		54	10 - 143
Benzoic acid	ND	F1	120	8.15	J F1	ug/L		7	10 - 134
Benzyl alcohol	ND		28.6	3.30	J	ug/L		12	10 - 154
Bis(2-chloroethoxy)methane	ND		28.6	20.5		ug/L		72	14 - 147
Bis(2-chloroethyl)ether	ND		28.6	21.8		ug/L		76	28 - 130
bis (2-chloroisopropyl) ether	ND		28.6	18.2		ug/L		64	10 - 141
Bis(2-ethylhexyl) phthalate	ND		28.6	27.2		ug/L		95	43 - 160
4-Bromophenyl phenyl ether	ND		28.6	27.8		ug/L		97	26 - 159
Butyl benzyl phthalate	ND		28.6	25.9		ug/L		91	43 - 151
4-Chloroaniline	ND		28.6	13.7		ug/L		48	10 - 152
4-Chloro-3-methylphenol	ND		28.6	24.7		ug/L		86	17 - 156
2-Chloronaphthalene	ND		28.6	21.0		ug/L		73	10 - 155
2-Chlorophenol	ND		28.6	15.3		ug/L		54	19 - 130
4-Chlorophenyl phenyl ether	ND		28.6	24.8		ug/L		87	25 - 161
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 329509

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	ND		28.6	23.6		ug/L		82	18 - 157
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		28.6	21.8		ug/L		76	16 - 147
Diethyl phthalate	ND		28.6	19.0		ug/L		67	23 - 160
2,4-Dimethylphenol	ND		28.6	21.4		ug/L		75	25 - 146
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158
Di-n-butyl phthalate	ND		28.6	23.1		ug/L		81	28 - 162
4,6-Dinitro-ortho-cresol	ND		57.1	53.6		ug/L		94	10 - 168
2,4-Dinitrophenol	ND		96.3	99.4		ug/L		103	10 - 166
2,4-Dinitrotoluene	ND		28.6	27.0		ug/L		94	26 - 158
2,6-Dinitrotoluene	ND		28.6	23.7		ug/L		83	19 - 157
Di-n-octyl phthalate	0.46	J	28.6	24.7		ug/L		85	42 - 150
1,4-Dioxane	ND		28.6	12.4		ug/L		44	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	19.7		ug/L		69	19 - 162
Hexachlorobenzene	ND		28.6	29.8		ug/L		104	45 - 145
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151
Hexachloroethane	ND		28.6	16.0		ug/L		56	29 - 130
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130
Isophorone	ND		28.6	21.1		ug/L		74	24 - 144
2-Methylphenol	ND		28.6	27.3		ug/L		96	22 - 130
3 & 4 Methylphenol	ND		28.6	21.7		ug/L		76	31 - 130
2-Nitroaniline	ND		28.6	21.0		ug/L		73	10 - 162
3-Nitroaniline	ND		28.6	12.8		ug/L		45	10 - 163
4-Nitroaniline	ND		28.6	19.9		ug/L		70	10 - 162
Nitrobenzene	ND		28.6	20.6		ug/L		72	34 - 135
2-Nitrophenol	ND		28.6	22.8		ug/L		80	27 - 134
4-Nitrophenol	ND		57.1	46.5		ug/L		81	10 - 175
N-Nitrosodimethylamine	ND		28.6	18.0		ug/L		63	10 - 139
N-Nitrosodi-n-propylamine	ND		28.6	19.8		ug/L		69	13 - 147
N-Nitrosodiphenylamine	ND		28.3	21.3		ug/L		75	31 - 150
Pentachlorophenol	ND		57.1	74.6		ug/L		131	10 - 180
Phenol	ND		28.6	15.1		ug/L		53	23 - 130
Pyridine	ND		28.6	14.5		ug/L		51	10 - 130
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180
2,4,5-Trichlorophenol	ND		28.6	25.1		ug/L		88	43 - 137
2,4,6-Trichlorophenol	ND		28.6	23.0		ug/L		80	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*35*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*107*		*53 - 125*
2,4,6-Tribromophenol	*116*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		28.6	14.2		ug/L		50	10 - 143	9	63
Benzoic acid	ND	F1	120	8.12	J F1	ug/L		7	10 - 134	0	49
Benzyl alcohol	ND		28.6	3.36	J	ug/L		12	10 - 154	2	37
Bis(2-chloroethoxy)methane	ND		28.6	21.2		ug/L		74	14 - 147	3	70
Bis(2-chloroethyl)ether	ND		28.6	22.0		ug/L		77	28 - 130	1	42
bis (2-chloroisopropyl) ether	ND		28.6	18.9		ug/L		66	10 - 141	4	41
Bis(2-ethylhexyl) phthalate	ND		28.6	30.5		ug/L		107	43 - 160	11	35
4-Bromophenyl phenyl ether	ND		28.6	28.9		ug/L		101	26 - 159	4	30
Butyl benzyl phthalate	ND		28.6	28.2		ug/L		99	43 - 151	9	32
4-Chloroaniline	ND		28.6	9.93		ug/L		35	10 - 152	32	94
4-Chloro-3-methylphenol	ND		28.6	25.0		ug/L		88	17 - 156	1	40
2-Chloronaphthalene	ND		28.6	22.1		ug/L		77	10 - 155	5	29
2-Chlorophenol	ND		28.6	18.5		ug/L		65	19 - 130	19	42
4-Chlorophenyl phenyl ether	ND		28.6	25.6		ug/L		90	25 - 161	3	27
Dibenz[a,h]acridine	ND	F1	28.6	ND	F1	ug/L		0	42 - 147	NC	40
Dibenzofuran	ND		28.6	24.1		ug/L		84	18 - 157	2	29
3,3'-Dichlorobenzidine	ND	F1	38.1	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		28.6	23.9		ug/L		84	16 - 147	5	43
Diethyl phthalate	ND		28.6	18.4		ug/L		64	23 - 160	3	40
2,4-Dimethylphenol	ND		28.6	21.8		ug/L		76	25 - 146	2	47
Dimethyl phthalate	ND		28.6	23.9		ug/L		84	11 - 158	0	36
Di-n-butyl phthalate	ND		28.6	23.5		ug/L		82	28 - 162	2	32
4,6-Dinitro-ortho-cresol	ND		57.1	58.0		ug/L		101	10 - 168	8	42
2,4-Dinitrophenol	ND		96.3	109		ug/L		113	10 - 166	9	36
2,4-Dinitrotoluene	ND		28.6	28.5		ug/L		100	26 - 158	5	28
2,6-Dinitrotoluene	ND		28.6	24.9		ug/L		87	19 - 157	5	28
Di-n-octyl phthalate	0.46	J	28.6	25.9		ug/L		89	42 - 150	5	35
1,4-Dioxane	ND		28.6	13.9		ug/L		49	10 - 130	11	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.6	20.7		ug/L		72	19 - 162	5	40
Hexachlorobenzene	ND		28.6	31.4		ug/L		110	45 - 145	5	33
Hexachlorocyclopentadiene	ND	F1	28.6	ND	F1	ug/L		0	10 - 151	NC	50
Hexachloroethane	ND		28.6	17.7		ug/L		62	29 - 130	10	41
Indene	ND	F1	28.6	ND	F1	ug/L		0	22 - 130	NC	40
Isophorone	ND		28.6	22.1		ug/L		77	24 - 144	5	33
2-Methylphenol	ND		28.6	29.3		ug/L		103	22 - 130	7	47
3 & 4 Methylphenol	ND		28.6	20.2		ug/L		71	31 - 130	7	47
2-Nitroaniline	ND		28.6	22.0		ug/L		77	10 - 162	5	33
3-Nitroaniline	ND		28.6	13.5		ug/L		47	10 - 163	6	39
4-Nitroaniline	ND		28.6	21.1		ug/L		74	10 - 162	6	50
Nitrobenzene	ND		28.6	21.6		ug/L		75	34 - 135	5	35
2-Nitrophenol	ND		28.6	25.9		ug/L		91	27 - 134	13	43
4-Nitrophenol	ND		57.1	42.1		ug/L		74	10 - 175	10	82
N-Nitrosodimethylamine	ND		28.6	19.5		ug/L		68	10 - 139	8	62
N-Nitrosodi-n-propylamine	ND		28.6	20.1		ug/L		70	13 - 147	2	36
N-Nitrosodiphenylamine	ND		28.3	20.5		ug/L		72	31 - 150	4	34
Pentachlorophenol	ND		57.1	76.1		ug/L		133	10 - 180	2	42
Phenol	ND		28.6	17.0		ug/L		59	23 - 130	11	52

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 329509

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	ND		28.6	13.8		ug/L		48	10 - 130	5	55
Quinoline	ND	F1	28.6	ND	F1	ug/L		0	10 - 180	NC	40
2,4,5-Trichlorophenol	ND		28.6	26.2		ug/L		92	43 - 137	4	42
2,4,6-Trichlorophenol	ND		28.6	24.5		ug/L		86	42 - 135	7	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 120*
2-Fluorophenol	*49*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*60*		*10 - 120*
Terphenyl-d14	*99*		*53 - 125*
2,4,6-Tribromophenol	*118*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-328209/1-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Anthracene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Chrysene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Fluoranthene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Fluorene	ND		0.20	0.021	ug/L		10/25/16 13:53	10/26/16 16:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/25/16 13:53	10/26/16 16:17	1
Phenanthrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
Pyrene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/25/16 13:53	10/26/16 16:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*119*		*33 - 138*	*10/25/16 13:53*	*10/26/16 16:17*	*1*
2-Fluorobiphenyl	*100*		*15 - 122*	*10/25/16 13:53*	*10/26/16 16:17*	*1*
Nitrobenzene-d5	*113*		*19 - 130*	*10/25/16 13:53*	*10/26/16 16:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-328209/2-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	32.1		ug/L		107	41 - 120
Acenaphthylene	30.0	31.5		ug/L		105	44 - 120
Anthracene	30.0	32.2		ug/L		107	49 - 120
Benzo[a]anthracene	30.0	32.7		ug/L		109	61 - 135
Benzo[a]pyrene	30.0	31.8		ug/L		106	52 - 120
Benzo[b]fluoranthene	30.0	37.1		ug/L		124	53 - 134
Benzo[g,h,i]perylene	30.0	28.1		ug/L		94	47 - 133
Benzo[k]fluoranthene	30.0	28.2		ug/L		94	57 - 134
Chrysene	30.0	27.7		ug/L		92	55 - 122
Dibenz(a,h)anthracene	30.0	31.4		ug/L		105	48 - 146
Fluoranthene	30.0	33.0		ug/L		110	54 - 128
Fluorene	30.0	34.3		ug/L		114	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.7		ug/L		102	43 - 142
Phenanthrene	30.0	35.2		ug/L		117	48 - 120
Pyrene	30.0	30.3		ug/L		101	48 - 132
1-Methylnaphthalene	30.0	23.8		ug/L		79	41 - 120
2-Methylnaphthalene	30.0	23.7		ug/L		79	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*114*		*33 - 138*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*90*		*19 - 130*

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.6		ug/L		95	41 - 120	11	56
Acenaphthylene	30.0	27.3		ug/L		91	44 - 120	14	56
Anthracene	30.0	30.7		ug/L		102	49 - 120	5	51
Benzo[a]anthracene	30.0	31.4		ug/L		105	61 - 135	4	49
Benzo[a]pyrene	30.0	29.9		ug/L		100	52 - 120	6	50
Benzo[b]fluoranthene	30.0	35.8		ug/L		119	53 - 134	3	54
Benzo[g,h,i]perylene	30.0	27.1		ug/L		90	47 - 133	4	50
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134	6	52
Chrysene	30.0	26.4		ug/L		88	55 - 122	5	50
Dibenz(a,h)anthracene	30.0	30.6		ug/L		102	48 - 146	3	50
Fluoranthene	30.0	30.9		ug/L		103	54 - 128	7	52
Fluorene	30.0	30.8		ug/L		103	45 - 125	11	56
Indeno[1,2,3-cd]pyrene	30.0	30.5		ug/L		102	43 - 142	1	51
Phenanthrene	30.0	33.1		ug/L		110	48 - 120	6	56
Pyrene	30.0	29.6		ug/L		99	48 - 132	2	52
1-Methylnaphthalene	30.0	21.2		ug/L		71	41 - 120	12	55
2-Methylnaphthalene	30.0	21.0		ug/L		70	32 - 124	12	57

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-328209/3-A
Matrix: Water
Analysis Batch: 328286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328209

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*110*		*33 - 138*
2-Fluorobiphenyl	*82*		*15 - 122*
Nitrobenzene-d5	*78*		*19 - 130*

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 328286

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F1	28.6	5.63	F1	ug/L		20	35 - 113
Acenaphthylene	ND	F1	28.6	5.44	F1	ug/L		19	41 - 118
Anthracene	ND	F1	28.6	5.64	F1	ug/L		20	45 - 122
Benzo[a]anthracene	ND	F1	28.6	5.59	F1	ug/L		20	55 - 133
Benzo[a]pyrene	ND	F1	28.6	5.50	F1	ug/L		19	50 - 108
Benzo[b]fluoranthene	ND	F1	28.6	5.82	F1	ug/L		20	50 - 128
Benzo[g,h,i]perylene	ND	F1	28.6	5.56	F1	ug/L		19	46 - 133
Benzo[k]fluoranthene	ND	F1	28.6	5.00	F1	ug/L		18	52 - 128
Chrysene	ND	F1	28.6	4.78	F1	ug/L		17	52 - 116
Dibenz(a,h)anthracene	ND	F1	28.6	6.04	F1	ug/L		21	52 - 143
Fluoranthene	ND	F1	28.6	5.73	F1	ug/L		20	32 - 150
Fluorene	ND		28.6	5.68		ug/L		20	15 - 150
Indeno[1,2,3-cd]pyrene	ND	F1	28.6	5.98	F1	ug/L		21	41 - 141
Phenanthrene	ND	F1	28.6	6.07	F1	ug/L		21	36 - 125
Pyrene	ND	F1	28.6	5.04	F1	ug/L		18	41 - 127
1-Methylnaphthalene	0.048	J	28.6	4.74		ug/L		16	10 - 150
2-Methylnaphthalene	0.063	J	28.6	4.70		ug/L		16	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*19*	*X*	*33 - 138*
2-Fluorobiphenyl	*18*		*15 - 122*
Nitrobenzene-d5	*20*		*19 - 130*

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 328286

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F1	28.6	5.53	F1	ug/L		19	35 - 113	2	49
Acenaphthylene	ND	F1	28.6	5.44	F1	ug/L		19	41 - 118	0	48
Anthracene	ND	F1	28.6	5.64	F1	ug/L		20	45 - 122	0	56
Benzo[a]anthracene	ND	F1	28.6	5.28	F1	ug/L		18	55 - 133	6	57
Benzo[a]pyrene	ND	F1	28.6	5.19	F1	ug/L		18	50 - 108	6	59
Benzo[b]fluoranthene	ND	F1	28.6	5.74	F1	ug/L		20	50 - 128	1	62
Benzo[g,h,i]perylene	ND	F1	28.6	5.17	F1	ug/L		18	46 - 133	7	58
Benzo[k]fluoranthene	ND	F1	28.6	4.90	F1	ug/L		17	52 - 128	2	58
Chrysene	ND	F1	28.6	4.86	F1	ug/L		17	52 - 116	2	59
Dibenz(a,h)anthracene	ND	F1	28.6	5.56	F1	ug/L		19	52 - 143	8	60
Fluoranthene	ND	F1	28.6	5.59	F1	ug/L		20	32 - 150	2	59

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 328286

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 328209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	ND		28.6	5.65		ug/L		20	15 - 150	0	49
Indeno[1,2,3-cd]pyrene	ND	F1	28.6	5.51	F1	ug/L		19	41 - 141	8	58
Phenanthrene	ND	F1	28.6	6.09	F1	ug/L		21	36 - 125	0	69
Pyrene	ND	F1	28.6	5.31	F1	ug/L		19	41 - 127	5	58
1-Methylnaphthalene	0.048	J	28.6	4.74		ug/L		16	10 - 150	0	66
2-Methylnaphthalene	0.063	J	28.6	4.71		ug/L		16	10 - 150	0	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*16*	*X*	*33 - 138*
2-Fluorobiphenyl	*18*		*15 - 122*
Nitrobenzene-d5	*20*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-327993/1-A
Matrix: Water
Analysis Batch: 328933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/24/16 09:41	10/28/16 14:51	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/24/16 09:41	10/28/16 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/24/16 09:41*	*10/28/16 14:51*	*1*

Lab Sample ID: LCS 400-327993/2-A
Matrix: Water
Analysis Batch: 328933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0999		ug/L		100	60 - 140
1,2-Dibromoethane	0.100	0.0911		ug/L		91	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*51 - 149*

Lab Sample ID: 400-128903-3 MS
Matrix: Water
Analysis Batch: 328933

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 327993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.102	0.0949		ug/L		93	65 - 135
1,2-Dibromoethane	ND		0.102	0.106		ug/L		104	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-128903-3 MSD
Matrix: Water
Analysis Batch: 328933

Client Sample ID: P93C-ROX-101816
Prep Type: Total/NA
Prep Batch: 327993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.101	0.101		ug/L		100	65 - 135	NC	20
1,2-Dibromoethane	ND		0.101	0.112		ug/L		111	65 - 135	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*51 - 149*

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364589 (TestAmerica))

Please Check Appropriate Box:

☐ SGW FDG ☐ PIPELINE ☐ RETAIL

☐ CHEMICALS ☐ CONSULTANT ☐ LUBES

☐ TRANSPORTATION ☑ OTHER _ENV. SERVICES_____

Print Bill To Contact Name: Bob Billman

PO #: 60477387 - 1.03.004 / 1.03.0044

PlaNet Site or Project ID: 25278

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT, # APPLIES

DATE: 10-18-16

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60477387 - 1.03.004 / 1.03.0044

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

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

AECOM Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher, T. Jones, K. Watkins, C. Williams

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LEVEL 2 ☐ LEVEL ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

* Please include "J" values on Reports
* Please provide sample receipt upon login

Split Report

☑ SHELL CONTRACT RATE APPLIES

☐ STATE REIMBURSEMENT RATE APPLIES

☐ EDD NOT NEEDED

☑ RECEIPT VERIFICATION REQUESTED

☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST 60477387 - 1.03.0044: VOC 8011; PAH 8270LL

NON-UNIT COST 60477387 - 1.03.004: VOC 8260; SVOC 8270

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8011	PAH 8270LL	VOC 8260	SVOC 8270
	TB-ROX-101816-8260-SS	10-18-16	0000	water	2					2			X	
	TB-ROX-101816-8011-SS	10-18-16	0000	water	2					2	X			
	P93C-ROX-101816	10/18/16	935	water	4			2		6	X	X	X	X
	P93C-ROX-101816-MS	10/18/16	935	water	4			2		6	X	X	X	X
	P93C-ROX-101816-MSD	10/18/16	935	water	4			2		6	X	X	X	X
	P89-ROX-101816	10/18/16	945	water	4			2		6	X	X	X	X
	P93A-ROX-101816	10/18/16	1100	water	4			2		6	X	X	X	X
	P93A-ROX-101816-DUP	10/18/16	1100	water	4			2		6	X	X	X	X
	P93B-ROX-101816	10/18/16	1315	water	4			2		6	X	X	X	X

Samuel Fisher

400-128903 COC

Relinquished by (Signature): Samuel Fisher — Date: 10-18-16 — Time: 1630

Received by (Signature): FEDEX

Relinquished by (Signature): — Date: 10/19/16 — Time: 819

Received by (Signature): 0.4°C, 0.8°C, 0.8°C IRC — Date: — Time:

Ref:

Dep:

Date: 28Jul16

Wgt: 10.00 LBS

DV: 0.00

SHIPPING: 0.00

SPECIAL: 0.00

HANDLING: 0.00

TOTAL: 0.00

SVCS: PRIORITY OVERNIGHT

TRCK: 6546 8367 7594

Version: 14Dec15

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11/8/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-128903-1
SDG Number: 60477387 - 1.03.0044/1.03.004

Login Number: 128903
List Number: 1
Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C , 0.8°C , 0.8°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY (4Q16)

TestAmerica Job ID: 400-128903-1
SDG: 60477387 - 1.03.0044/1.03.004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.