AECOM

3rd Quarter 2017 Report

Roxana Interim Groundwater Monitoring Program

Prepared for:
Equilon Enterprises, LLC dba Shell Oil Products US
Roxana, Illinois

Project Number: 60527968
October 2017

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October 11, 2017

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

Groundwater Monitoring Report – 3rd Quarter 2017
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R-CA-21

Dear Mr. Dragovich:

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



Wendy Pennington, PE
Project Engineer



Robert E. Mooshegian, CHMM
Senior Program Manager

Enclosures: 3rd Quarter 2017 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 –Roxana Public Library, website

Illinois Environmental Protection Agency

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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)

3 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)

_____

_____

Table of Contents

1 Introduction 1
2 Groundwater Sampling and Analytical Procedures 4
2.1 Additional Activities or Modifications 4
2.2 Groundwater Monitoring Well Gauging and Sampling 4
2.3 Health & Safety, Decontamination, and Investigative Derived Waste 5
2.4 Groundwater Sample Handling and Laboratory Testing 6
2.5 Data Quality Review and Data Management 6
3 Groundwater Sampling Results 8
3.1 Groundwater Monitoring Well Gauging Results 8
3.2 Data Quality Review Results 8
3.3 Analytical Results and Discussion 9
3.4 Limitations 10
4 References 11

Tables

Table 1a Quarterly Groundwater Monitoring Well Gauging Results
Table 1b 3Q17 Weekly/Monthly Groundwater Monitoring Well Gauging Results
Table 2 Summary of Groundwater Monitoring Well Field Parameters
Table 3 Summary of Groundwater Monitoring Well Analytical Detections and Exceedances

Figures

Figure 1 3Q17 Investigation Area Location Map
Figure 2 3Q17 Roxana Interim Groundwater Monitoring Well Locations
Figure 3a Groundwater Contours 3Q17
Figure 3b Groundwater Contours 3Q17-West Fenceline
Figure 4a 3Q17 Thickness of LNAPL-West Fenceline
Figure 4b 3Q17 Thickness of LNAPL
Figure 5 3Q17 Groundwater Monitoring Well Analytical Exceedances
Figure 6 3Q17 Dissolved Phase Benzene Concentrations in Groundwater
Figure 7 Cross-Section of Benzene 3Q17 Groundwater Analytical Results-Chaffer Avenue
Figure 8 Cross-Section of Benzene 3Q17 Groundwater Analytical Results-Roxana Public Works Yard

Appendices

Appendix A Groundwater Sampling Data Sheets
Appendix B Data Review Forms and Laboratory Analytical Reports

1 Introduction

AECOM Technical Services, Inc. (AECOM) is submitting this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SOPUS) for the 3rd Quarter 2017 (3Q17) 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) 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). 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, 2013a), 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, 2014a), stating that these piezometers will remain in the program. A separate letter dated January 14, 2014 was submitted to the IEPA (URS, 2014b), 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, 2016a). 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.

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, 2013b). In a letter dated July 27, 2016 (IEPA, 2016b), 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, 2016c), 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. In a letter dated August 2, 2017 (IEPA, 2017), IEPA approved the December 5, 2014 request to reduce the frequency of routine gauging from weekly/monthly to quarterly with the following condition:

- Groundwater monitoring wells ROST-4-PZ(E) and ROST-4-PZ(G) must be added to the list of wells sampled quarterly for groundwater quality.

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 3Q17 to meet the requirements of the Interim Groundwater Monitoring Program, as specified in the above guidance. **Figure 2** shows the groundwater monitoring wells that are 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 3Q17:

- Based on IEPA's approval dated August 2, 2017, weekly/monthly gauging was discontinued on August 14, 2017. Gauging activities are now performed on a quarterly basis. Additionally, as directed by IEPA, wells ROST-4-PZ(E) and ROST-4-PZ(G) will be incorporated into the Roxana Interim Groundwater Sampling Program. Sampling of these wells will commence in the 4th Quarter 2017 (4Q17).

2.2 Groundwater Monitoring Well Gauging and Sampling

Groundwater Monitoring Well Gauging

The comprehensive quarterly groundwater monitoring well gauging event was conducted between July 5 and 6, 2017. The 3Q17 gauging activities were conducted in conjunction with the 3Q17 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 were collected from a subset of the quarterly program wells to assess the absence or presence of LNAPL. This gauging frequency was conducted prior to receipt of the IEPA August 2, 2017 letter approving quarterly gauging. Weekly/monthly gauging was discontinued on August 14, 2017. Available weekly and monthly gauging results for 3Q17 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 between July 7 and 13, 2017. 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[1] 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.

[1] 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 (mL). 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 A**.

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 29, 2017 (AECOM, 2016d).

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

AECOM field personnel wore U.S. Environmental Protection Agency (USEPA) 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 B**.

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 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, 2017). Data qualifiers were also added by AECOM, as appropriate, and are included on **Table 3** and in the laboratory results in **Appendix B**. 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.

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 3Q17 groundwater gauging and sampling event.

3.1 Groundwater Monitoring Well Gauging Results

The comprehensive quarterly groundwater monitoring well gauging for the 3Q17 event was conducted between July 5 and 6, 2017. 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 1 to 1.5 feet since 2nd Quarter 2017 (2Q17). Groundwater levels in most wells in the central portion of the WRR have risen approximately 0.5 to 1 feet since 2Q17. Groundwater levels in most wells on the eastern side of the WRR have risen approximately 2 to 3.5 feet since 2Q17. Water levels are above the top of the screens in the majority of the wells gauged during the 3Q17 event. The potentiometric surface observed during the 3Q17 groundwater monitoring well gauging (**Figures 3a** and **3b**) illustrates groundwater flow toward the WRR groundwater production wells.

During the 3Q17 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 0.02to 0.09 feet. LNAPL was observed above the screened intervals of P-55R, P-60, and P-68.

During 3Q17 weekly, monthly and quarterly gauging events, LNAPL was detected in four groundwater monitoring wells. All of these wells are located in the WRR (P-55R, P-58, P-60, and P-68). This routine gauging data can be found in **Tables 1a** and **1b**. Ranges of LNAPL thicknesses throughout 3Q17 are summarized in the table below.

Monitoring Well	Range of LNAPL Thickness (feet)	Comments
P-55R	0.08 - 0.22	Observed in 6 of 6 weeks
P-58	0.02	Observed in 1 of 2 weeks
P-60	0.02 - 0.04	Observed in 6 of 6 weeks
P-68	0.01 - 0.04	Observed in 6 of 6 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 3Q17 gauging event.

3.2 Data Quality Review Results

A total of six sample delivery groups (SDGs) were prepared and sent to TestAmerica for the 3Q17 event. Forty-eight 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 two matrix spike/matrix spike duplicate (MS/MSD) sets. SDGs for 3Q17 are presented in **Appendix B**.

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 ten TB sets were analyzed for groundwater VOCs. Laboratory method blanks were analyzed with every analytical batch. One PAH (pyrene) was qualified as estimated in one investigative sample (P66-ROX-071217) due to equipment blank contamination. Investigative samples immediately preceding and following equipment blank collection were non-detect for pyrene.

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 **Appendix B**.

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 2Q17 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[2]. 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 seventeen groundwater monitoring wells in the Interim Groundwater Monitoring Program (eight in the Village, nine 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-Trimethy benzene
- bis(2-Ethylhexyl)phthalate
- Pentachlorophenol
- Ethylbenzene
- Toluene
- 1,1,2,2-Tetrachloroethane
- 2-Methylnaphthalene
- Phenol

Figure 5 presents concentrations of analytes that exceeded the indicated screening criteria for 3Q17. **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 3Q17 Interim Groundwater Monitoring Program, and the following conclusions are based on the data and information collected as part of this program:

– During 3Q17, 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 have risen approximately 1 to 1.5 feet since the previous quarter. Groundwater levels observed in most monitoring wells in the central portion of the WRR have risen approximately 0.5 to 1 feet since the previous

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

quarter. Groundwater levels in most wells on the eastern side of the WRR have risen approximately 2 to 3.5 feet since the previous quarter.

- The analytical results from 3Q17 are generally similar to those from previous quarters.

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 may have been provided to AECOM by SOPUS or a third party and used in preparing this report. 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

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	442.65	10/1/2014	NE	41.11	NA	NA	NA	401.54	393.85 - 383.85 (48.80 - 58.80)	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	*
1Q17		1/16/2017	NE	38.35	NA	NA	NA	404.30		2.7	*
2Q17		4/3/2017	NE	38.72	NA	NA	NA	403.93		0.0	*
3Q17		7/5/2017	NE	37.24	NA	NA	NA	405.41		11.3	*
MW 02											
4Q14	443.77	10/1/2014	NE	42.37	NA	NA	NA	401.40	393.90 - 383.90 (49.87 - 59.87)	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	*
1Q17		1/16/2017	NE	39.58	NA	NA	NA	404.19		117.9	*
2Q17		4/3/2017	NE	39.97	NA	NA	NA	403.80		181.4	*
3Q17		7/5/2017	NE	38.69	NA	NA	NA	405.08		365.2	*
MW 03											
4Q14	430.08	10/1/2014	NE	28.14	NA	NA	NA	401.94	395.41 - 385.41 (34.67 - 44.67)	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	*
1Q17		1/16/2017	NE	25.65	NA	NA	NA	404.43		0.2	*
2Q17		4/3/2017	NE	26.10	NA	NA	NA	403.98		0.0	*
3Q17		7/5/2017	NE	24.17	NA	NA	NA	405.91		3.1	*
MW 04											
4Q14	441.14	10/1/2014	NE	39.44	NA	NA	NA	401.70	395.08 - 385.08 (46.06 - 56.06)	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	396.08 - 386.08 (45.06 - 55.06)	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	*
1Q17		1/16/2017	NE	36.84	NA	NA	NA	404.30		24.2	*
2Q17		4/3/2017	NE	37.17	NA	NA	NA	403.97		24.8	*
3Q17		7/5/2017	NE	35.65	NA	NA	NA	405.49		10.6	*
MW 05											
4Q14	429.80	10/2/2014	NE	27.74	NA	NA	NA	402.06	395.83 - 385.83 (33.97 - 43.97)	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	*
1Q17		1/16/2017	NE	25.33	NA	NA	NA	404.47		2.0	*
2Q17		4/3/2017	NE	25.75	NA	NA	NA	404.05		3.5	*
3Q17		7/5/2017	NE	23.96	NA	NA	NA	405.84		0.3	*
MW 06A											
4Q14	432.14	10/2/2014	NE	29.74	NA	NA	NA	402.40	397.31 - 387.31 (34.83 - 44.83)	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	*
1Q17		1/16/2017	NE	27.43	NA	NA	NA	404.71		0.4	*
2Q17		4/3/2017	NE	27.78	NA	NA	NA	404.36		1.4	*
3Q17		7/5/2017	NE	26.11	NA	NA	NA	406.03		0.2	*

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	432.29	10/2/2014	NE	29.78	NA	NA	NA	402.51	368.24 - 363.24 (64.05 - 69.05)	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	*
1Q17		1/16/2017	NE	27.49	NA	NA	NA	404.80		0.4	*
2Q17		4/3/2017	NE	27.89	NA	NA	NA	404.40		0.0	*
3Q17		7/5/2017	NE	26.16	NA	NA	NA	406.13		37.6	*
MW 06C											
4Q14	432.11	10/2/2014	NE	29.58	NA	NA	NA	402.53	347.16 - 342.16 (84.95 - 89.95)	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	*
1Q17		1/16/2017	NE	27.26	NA	NA	NA	404.85		21.1	*
2Q17		4/3/2017	NE	27.61	NA	NA	NA	404.50		4.9	*
3Q17		7/5/2017	NE	25.96	NA	NA	NA	406.15		15.4	*
MW 06D											
4Q14	431.99	10/2/2014	NE	29.43	NA	NA	NA	402.56	327.27 - 322.27 (104.72 - 109.72)	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	*
1Q17		1/16/2017	NE	27.14	NA	NA	NA	404.85		0.2	*
2Q17		4/3/2017	NE	27.47	NA	NA	NA	404.52		0.0	*
3Q17		7/5/2017	NE	25.83	NA	NA	NA	406.16		0.4	*
MW 07											
4Q14	443.10	10/1/2014	NE	41.32	NA	NA	NA	401.78	400.18 - 390.18 (42.92 - 52.92)	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	*
1Q17		1/16/2017	NE	38.90	NA	NA	NA	404.20		819.9	*
2Q17		4/3/2017	NE	39.09	NA	NA	NA	404.01		15000.0	*
3Q17		7/5/2017	NE	37.82	NA	NA	NA	405.28		138.5	*
MW 08											
4Q14	434.11	10/2/2014	NE	32.19	NA	NA	NA	401.92	400.51 - 390.51 (33.60 - 43.60)	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	*
1Q17		1/16/2017	NE	29.79	NA	NA	NA	404.32		106.0	*
2Q17		4/3/2017	NE	30.15	NA	NA	NA	403.96		15000.0	*
3Q17		7/5/2017	NE	28.55	NA	NA	NA	405.56		369.8	*
MW 09											
4Q14	445.20	10/1/2014	NE	43.54	NA	NA	NA	401.66	398.75 - 388.75 (46.45 - 56.45)	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	*
1Q17		1/16/2017	NE	40.06	NA	NA	NA	405.14		11.1	*
2Q17		4/3/2017	NE	40.56	NA	NA	NA	404.64		0.0	*
3Q17		7/5/2017	NE	38.89	NA	NA	NA	406.31		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	445.03	10/1/2014	NE	43.65	NA	NA	NA	401.38	400.60 - 390.60 (44.43 - 54.43)	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	*
1Q17		1/16/2017	NE	39.88	NA	NA	NA	405.15		0.0	*
2Q17		4/3/2017	NE	40.32	NA	NA	NA	404.71		0.0	*
3Q17		7/5/2017	NE	38.95	NA	NA	NA	406.08		0.0	*
MW 11											
4Q14	442.33	10/1/2014	NE	39.93	NA	NA	NA	402.40	400.67 - 390.67 (41.66 - 51.66)	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	*
1Q17		1/16/2017	NE	37.63	NA	NA	NA	404.70		0.0	*
2Q17		4/3/2017	NE	38.10	NA	NA	NA	404.23		0.0	*
3Q17		7/5/2017	NE	36.46	NA	NA	NA	405.87		0.0	*
MW 12											
4Q14	442.60	10/1/2014	NE	41.02	NA	NA	NA	401.58	400.68 - 390.68 (41.92 - 51.92)	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	*
1Q17		1/16/2017	NE	38.11	NA	NA	NA	404.49		1.2	*
2Q17		4/3/2017	NE	38.56	NA	NA	NA	404.04		0.0	*
3Q17		7/5/2017	NE	36.84	NA	NA	NA	405.76		8.1	*
MW 13											
4Q14	430.27	10/3/2014	NE	27.66	NA	NA	NA	402.61	404.70 - 394.70 (25.57 - 35.57)	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	*
1Q17		1/17/2017	NE	25.54	NA	NA	NA	404.73		20.6	*
2Q17		4/5/2017	NE	25.90	NA	NA	NA	404.37		98.7	
3Q17		7/6/2017	NE	23.67	NA	NA	NA	406.60		161.9	*
MW 14											
4Q14	434.44	10/3/2014	NE	31.93	NA	NA	NA	402.51	401.02 - 391.02 (33.42 - 43.42)	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	*
1Q17		1/17/2017	NE	29.61	NA	NA	NA	404.83		71.0	*
2Q17		4/4/2017	NE	29.91	NA	NA	NA	404.53		84.4	*
3Q17		7/6/2017	NE	28.34	NA	NA	NA	406.10		35.3	*
MW 16											
4Q14	443.39	10/1/2014	NE	42.35	NA	NA	NA	401.04	406.33 - 396.33 (37.06 - 47.06)	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	
1Q17		1/16/2017	NE	39.15	NA	NA	NA	404.24		0.1	
2Q17		4/3/2017	NE	39.51	NA	NA	NA	403.88		0.0	
3Q17		7/5/2017	NE	38.18	NA	NA	NA	405.21		4.6	

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	441.57	10/1/2014	NE	41.07	NA	NA	NA	400.50	407.28 - 392.28 (34.29 - 49.29)	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	
1Q17		1/16/2017	NE	37.42	NA	NA	NA	404.15		143.6	
2Q17		4/3/2017	NE	37.62	NA	NA	NA	403.95		0.0	
3Q17		7/5/2017	NE	36.74	NA	NA	NA	404.83		0.0	
MW 18											
4Q14	442.04	10/1/2014	NE	41.67	NA	NA	NA	400.37	407.12 - 392.12 (34.92 - 49.92)	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	
1Q17		1/16/2017	NE	38.08	NA	NA	NA	403.96		2.5	
2Q17		4/3/2017	NE	38.19	NA	NA	NA	403.85		0.0	
3Q17		7/5/2017	NE	37.38	NA	NA	NA	404.66		0.0	
MW 19											
4Q14	442.77	10/1/2014	NE	42.02	NA	NA	NA	400.75	406.43 - 391.43 (36.34 - 51.34)	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	
1Q17		1/16/2017	NE	38.72	NA	NA	NA	404.05		5.6	
2Q17		4/3/2017	NE	38.93	NA	NA	NA	403.84		0.0	
3Q17		7/5/2017	NE	37.93	NA	NA	NA	404.84		0.0	
MW 20											
4Q14	443.67	10/1/2014	NE	42.63	NA	NA	NA	401.04	407.79 - 392.79 (35.88 - 50.88)	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	
1Q17		1/16/2017	NE	39.54	NA	NA	NA	404.13		0.1	
2Q17		4/3/2017	NE	39.93	NA	NA	NA	403.74		0.0	
3Q17		7/5/2017	NE	38.69	NA	NA	NA	404.98		38.7	
MW 21											
4Q14	443.81	10/1/2014	NE	42.28	NA	NA	NA	401.53	408.80 - 393.80 (35.01 - 50.01)	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	
1Q17		1/16/2017	NE	39.68	NA	NA	NA	404.13		0.2	
2Q17		4/3/2017	NE	39.95	NA	NA	NA	403.86		0.0	
3Q17		7/5/2017	NE	38.74	NA	NA	NA	405.07		0.0	
MW 22											
4Q14	442.16	10/1/2014	NE	41.20	NA	NA	NA	400.96	404.28 - 394.28 (37.88 - 47.88)	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	
1Q17		1/16/2017	NE	37.80	NA	NA	NA	404.36		84.4	*
2Q17		4/3/2017	NE	38.20	NA	NA	NA	403.96		4.7	
3Q17		7/5/2017	NE	36.89	NA	NA	NA	405.27		16.5	*

SEE LAST PAGE OF TABLE FOR NOTES

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 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	*
1Q17		1/16/2017	NE	26.83	NA	NA	NA	404.58		0.7	*
2Q17		4/3/2017	NE	27.40	NA	NA	NA	404.01		0.2	*
3Q17		7/5/2017	NE	25.08	NA	NA	NA	406.33		0.5	*
MW 24											
4Q14	443.42	10/1/2014	NE	42.13	NA	NA	NA	401.29	404.53 - 394.53 (38.89 - 48.89)	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	
1Q17		1/16/2017	NE	38.97	NA	NA	NA	404.45		11.2	
2Q17		4/3/2017	NE	39.45	NA	NA	NA	403.97		0.8	
3Q17		7/5/2017	NE	37.75	NA	NA	NA	405.67		3.6	*
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	*
1Q17		1/16/2017	NE	34.00	NA	NA	NA	404.35		42.6	*
2Q17		4/3/2017	NE	34.33	NA	NA	NA	404.02		83.6	*
3Q17		7/5/2017	NE	32.77	NA	NA	NA	405.58		61.9	*
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	*
1Q17		1/16/2017	NE	36.74	NA	NA	NA	404.28		0.2	*
2Q17		4/3/2017	NE	37.09	NA	NA	NA	403.93		0.0	*
3Q17		7/5/2017	NE	35.60	NA	NA	NA	405.42		0.0	*
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	*
1Q17		1/16/2017	NE	38.05	NA	NA	NA	405.35		0.4	*
2Q17		4/3/2017	NE	38.58	NA	NA	NA	404.82		0.0	*
3Q17		7/5/2017	NE	37.35	NA	NA	NA	406.05		0.0	*
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	
1Q17		1/16/2017	NE	37.14	NA	NA	NA	406.20		7.2	
2Q17		4/3/2017	NE	37.78	NA	NA	NA	405.56		0.0	
3Q17		7/5/2017	NE	36.63	NA	NA	NA	406.71		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

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 01											
4Q14	442.56	10/1/2014	NE	33.96	NA	NA	NA	408.60	380.61 - 375.61 (61.95 - 66.95)	0.0	*
1Q15		1/5/2015	NM	NM	NA	NA	NA	NA		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	442.73	4/4/2016	NE	30.93	NA	NA	NA	411.80	380.78 - 375.78 (61.95 - 66.95)	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	*
1Q17		1/17/2017	NE	29.46	NA	NA	NA	413.27		0.0	*
2Q17		4/4/2017	NE	30.25	NA	NA	NA	412.48		0.0	*
3Q17		7/5/2017	NE	26.73	NA	NA	NA	416.00		0.0	*
P 4U											
4Q14	442.50	10/1/2014	NE	36.22	NA	NA	NA	406.28	361.35 - 359.35 (81.15 - 83.15)	0.0	*
1Q15		1/5/2015	NE	36.01	NA	NA	NA	406.53		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	442.54	4/6/2016	NM	NM	NA	NA	NA	NA	361.39 - 359.39 (81.15 - 83.15)	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	*
1Q17		1/17/2017	NE	30.53	NA	NA	NA	412.01		0.0	*
2Q17		4/4/2017	NE	31.39	NA	NA	NA	411.15		0.0	*
3Q17		7/5/2017	NE	28.12	NA	NA	NA	414.42		5.3	*
P 5L											
4Q14	443.79	10/1/2014	NE	36.38	NA	NA	NA	407.41	303.39 - 301.39 (140.40 - 142.40)	0.0	*
1Q15		1/5/2015	NE	36.83	NA	NA	NA	407.01		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	443.84	4/4/2016	NE	32.34	NA	NA	NA	411.50	303.44 - 301.44 (140.40 - 142.40)	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	*
1Q17		1/17/2017	NE	30.59	NA	NA	NA	413.25		0.0	*
2Q17		4/4/2017	NE	31.52	NA	NA	NA	412.32		0.0	*
3Q17		7/5/2017	NE	27.33	NA	NA	NA	416.51		2.1	*
P 5U											
4Q14	444.15	10/1/2014	NE	37.56	NA	NA	NA	406.59	313.52 - 311.52 (130.63 - 132.63)	0.0	*
1Q15		1/5/2015	NE	46.14	NA	NA	NA	398.10		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	444.24	4/4/2016	NE	33.78	NA	NA	NA	410.46	313.61 - 311.61 (130.63 - 132.63)	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	*
1Q17		1/17/2017	NE	31.81	NA	NA	NA	412.43		0.0	*
2Q17		4/4/2017	NE	32.69	NA	NA	NA	411.55		0.0	*
3Q17		7/5/2017	NE	29.11	NA	NA	NA	415.13		0.0	*
P 6U											
4Q14	443.35	10/1/2014	NE	37.17	NA	NA	NA	406.18	362.85 - 360.85 (80.50 - 82.50)	0.0	*
1Q15		1/5/2015	NE	37.12	NA	NA	NA	406.33		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	443.45	4/4/2016	NE	33.17	NA	NA	NA	410.28	362.95 - 360.95 (80.50 - 82.50)	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	*
1Q17		1/17/2017	NE	31.19	NA	NA	NA	412.26		0.0	*
2Q17		4/4/2017	NE	32.11	NA	NA	NA	411.34		0.0	*
3Q17		7/5/2017	NE	28.50	NA	NA	NA	414.95		0.6	*

SEE LAST PAGE OF TABLE FOR NOTES

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 7U											
4Q14	443.80	10/1/2014	NE	37.52	NA	NA	NA	406.28	382.72 - 380.72 (61.08 - 63.08)	0.0	*
1Q15		1/6/2015	NE	37.49	NA	NA	NA	406.42		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	443.91	4/4/2016	NE	33.38	NA	NA	NA	410.53	382.83 - 380.83 (61.08 - 63.08)	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	*
1Q17		1/17/2017	NE	31.43	NA	NA	NA	412.48		0.0	*
2Q17		4/4/2017	NE	32.37	NA	NA	NA	411.54		0.1	*
3Q17		7/5/2017	NE	28.52	NA	NA	NA	415.39		5.3	*
P 8U											
4Q14	441.87	10/3/2014	NE	37.73	NA	NA	NA	404.14	382.35 - 380.35 (59.52 - 61.52)	0.0	*
1Q15		1/5/2015	NE	37.08	NA	NA	NA	404.77		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	441.85	4/5/2016	NE	33.41	NA	NA	NA	408.44	382.33 - 380.33 (59.52 - 61.52)	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	*
1Q17		1/17/2017	NE	31.42	NA	NA	NA	410.43		0.0	*
2Q17		4/3/2017	NE	31.88	NA	NA	NA	409.97		0.0	*
3Q17		7/6/2017	NE	29.86	NA	NA	NA	411.99		0.0	*
P 9U											
4Q14	444.91	10/3/2014	NE	41.81	NA	NA	NA	403.10	344.32 - 342.32 (100.59 - 102.59)	0.0	*
1Q15		1/6/2015	NE	41.41	NA	NA	NA	403.63		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	445.04	4/4/2016	NE	37.84	NA	NA	NA	407.20	344.45 - 342.45 (100.59 - 102.59)	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	*
1Q17		1/17/2017	NE	35.97	NA	NA	NA	409.07		0.0	*
2Q17		4/3/2017	NE	36.30	NA	NA	NA	408.74		0.0	*
3Q17		7/6/2017	NE	34.22	NA	NA	NA	410.82		0.0	*
P 11L											
4Q14	442.80	10/2/2014	NE	38.10	NA	NA	NA	404.70	332.59 - 330.59 (110.21 - 112.21)	0.0	*
1Q15		1/6/2015	NE	37.70	NA	NA	NA	404.85		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	442.55	4/5/2016	NE	34.70	NA	NA	NA	407.85	332.34 - 330.34 (110.21 - 112.21)	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	*
1Q17		1/17/2017	NE	32.26	NA	NA	NA	410.29		0.0	*
2Q17		4/4/2017	NE	33.01	NA	NA	NA	409.54		0.0	*
3Q17		7/6/2017	NE	31.05	NA	NA	NA	411.50		0.0	*
P 11U											
4Q14	443.09	10/2/2014	NE	38.74	NA	NA	NA	404.35	343.17 - 341.17 (99.92 - 101.92)	0.0	*
1Q15		1/6/2015	NE	37.32	NA	NA	NA	405.85		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	443.17	4/5/2016	NE	34.88	NA	NA	NA	408.29	343.25 - 341.25 (99.92 - 101.92)	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	*
1Q17		1/17/2017	NE	32.90	NA	NA	NA	410.27		0.0	*
2Q17		4/4/2017	NE	33.61	NA	NA	NA	409.56		0.7	*
3Q17		7/6/2017	NE	31.65	NA	NA	NA	411.52		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 14											
4Q14	442.65	10/1/2014	NE	34.05	NA	NA	NA	408.60	395.32 - 385.32 (47.33 - 57.33)	0.0	*
1Q15		1/5/2015	NM	NM	NA	NA	NA	NA		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	442.74	4/4/2016	NE	30.98	NA	NA	NA	411.76	395.41 - 385.41 (47.33 - 57.33)	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	*
1Q17		1/17/2017	NE	29.55	NA	NA	NA	413.19		0.0	*
2Q17		4/4/2017	NE	30.33	NA	NA	NA	412.41		0.0	*
3Q17		7/5/2017	NE	26.80	NA	NA	NA	415.94		0.0	*
P 15											
4Q14	443.35	10/1/2014	NE	36.57	NA	NA	NA	406.78	397.90 - 387.90 (45.45 - 55.45)	0.0	*
1Q15		1/5/2015	NE	36.49	NA	NA	NA	407.20		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	443.69	4/5/2016	NE	32.98	NA	NA	NA	410.71	398.24 - 388.24 (45.45 - 55.45)	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	*
1Q17		1/17/2017	NE	31.20	NA	NA	NA	412.49		0.0	*
2Q17		4/4/2017	NE	32.12	NA	NA	NA	411.57		0.0	*
3Q17		7/5/2017	NE	28.75	NA	NA	NA	414.94		1.6	*
P 16											
4Q14	442.31	10/1/2014	NE	35.77	NA	NA	NA	406.54	396.57 - 386.57 (45.74 - 55.74)	0.0	*
1Q15		1/5/2015	NE	35.72	NA	NA	NA	406.96		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	442.68	4/4/2016	NE	31.78	NA	NA	NA	410.90	396.94 - 386.94 (45.74 - 55.74)	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	*
1Q17		1/17/2017	NE	30.08	NA	NA	NA	412.60		0.0	*
2Q17		4/4/2017	NE	30.99	NA	NA	NA	411.69		0.0	*
3Q17		7/5/2017	NE	27.40	NA	NA	NA	415.28		4.2	*
P 43											
4Q14	444.07	10/2/2014	NE	39.31	NA	NA	NA	404.76	380.51 - 370.51 (63.56 - 73.56)	8.5	*
1Q15		1/6/2015	NE	38.78	NA	NA	NA	405.66		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	444.44	4/5/2016	NE	35.73	NA	NA	NA	408.71	380.88 - 370.88 (63.56 - 73.56)	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	*
1Q17		1/17/2017	NE	33.71	NA	NA	NA	410.73		0.0	*
2Q17		4/4/2017	NE	34.52	NA	NA	NA	409.92		0.0	*
3Q17		7/6/2017	NE	31.87	NA	NA	NA	412.57		0.0	*
P 53											
4Q14	446.23	10/2/2014	NE	43.81	NA	NA	NA	402.42	407.73 - 382.73 (38.50 - 63.50)	0.0	
1Q15		1/8/2015	NE	43.82	NA	NA	NA	402.59		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	446.41	4/6/2016	NE	41.41	NA	NA	NA	405.00	407.91 - 382.91 (38.50 - 63.50)	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	
1Q17		1/16/2017	NE	39.63	NA	NA	NA	406.78		5.8	
2Q17		4/3/2017	NE	40.04	NA	NA	NA	406.37		0.0	
3Q17		7/5/2017	NE	38.70	NA	NA	NA	407.71		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

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 54											
4Q14	442.18	10/1/2014	NE	40.82	NA	NA	NA	401.36	404.18 - 379.18 (38.00 - 63.00)	0.0	
1Q15		1/5/2015	NE	41.69	NA	NA	NA	400.63		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	442.32	4/4/2016	NE	39.43	NA	NA	NA	402.89	404.32 - 379.32 (38.00 - 63.00)	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	*
1Q17		1/16/2017	NE	37.80	NA	NA	NA	404.52		0.2	*
2Q17		4/3/2017	NE	38.28	NA	NA	NA	404.04		0.0	
3Q17		7/5/2017	NE	36.41	NA	NA	NA	405.91		0.0	*
P 55R											
4Q14	443.78	10/3/2014	42.81	43.02	400.76	400.97	0.21	400.93	403.35 - 393.35 (40.43 - 50.43)	53.8	
1Q15		1/8/2015	42.94	43.19	400.60	400.85	0.25	400.80		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	443.79	4/4/2016	40.09	40.15	403.64	403.70	0.06	403.69	403.36 - 393.36 (40.43 - 50.43)	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	*
1Q17		1/16/2017	38.82	39.30	404.49	404.97	0.48	404.87		132.8	*
2Q17		4/3/2017	39.06	39.34	404.45	404.73	0.28	404.67		154.7	*
3Q17		7/5/2017	37.88	37.97	405.82	405.91	0.09	405.89		162.1	*
P 56											
4Q14	446.02	10/3/2014	NE	45.20	NA	NA	NA	400.82	405.20 - 380.20 (40.82 - 65.82)	0.0	
1Q15		1/8/2015	NE	46.24	NA	NA	NA	399.90		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	446.14	4/4/2016	NE	44.15	NA	NA	NA	401.99	405.32 - 380.32 (40.82 - 65.82)	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	
1Q17		1/16/2017	NE	42.01	NA	NA	NA	404.13		180.0	
2Q17		4/3/2017	NE	42.43	NA	NA	NA	403.71		0.0	
3Q17		7/5/2017	NE	41.18	NA	NA	NA	404.96		0.2	
P 57											
4Q14	446.53	10/3/2014	NE	45.25	NA	NA	NA	401.28	406.07 - 381.07 (40.46 - 65.46)	0.0	
1Q15		1/5/2015	NE	47.37	NA	NA	NA	399.59		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	446.96	4/4/2016	NE	44.80	NA	NA	NA	402.16	402.77 - 392.77 (44.19 - 54.19)	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	*
1Q17		1/16/2017	NE	42.89	NA	NA	NA	404.07		135.3	*
2Q17		4/3/2017	NE	43.21	NA	NA	NA	403.75		140.1	*
3Q17		7/5/2017	NE	41.92	NA	NA	NA	405.04		131.9	*
P 58											
4Q14	444.92	10/3/2014	NE	43.13	NA	NA	NA	401.79	404.70 - 379.70 (40.21 - 65.21)	0.0	
1Q15		1/8/2015	NE	44.98	NA	NA	NA	399.96		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	444.94	4/4/2016	NE	42.75	NA	NA	NA	402.19	404.73 - 379.73 (40.21 - 65.21)	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	
1Q17		1/16/2017	NE	40.78	NA	NA	NA	404.16		135.1	
2Q17		4/3/2017	NE	40.91	NA	NA	NA	404.03		0.0	
3Q17		7/5/2017	NE	39.81	NA	NA	NA	405.13		11.4	*

SEE LAST PAGE OF TABLE FOR NOTES

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 59											
4Q14	446.78	10/3/2014	NE	46.39	NA	NA	NA	400.39	398.87 - 373.87 (47.91 - 72.91)	397.3	*
1Q15		1/8/2015	NE	47.00	NA	NA	NA	399.86		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	446.86	4/4/2016	NE	45.22	NA	NA	NA	401.64	398.95 - 373.95 (47.91 - 72.91)	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	*
1Q17		1/16/2017	NE	42.83	NA	NA	NA	404.03		220.9	*
2Q17		4/3/2017	NE	43.06	NA	NA	NA	403.80		358.9	*
3Q17		7/5/2017	NE	42.08	NA	NA	NA	404.78		321.7	*
P 60											
4Q14	446.57	10/3/2014	46.09	46.17	400.40	400.48	0.08	400.47	403.12 - 383.12 (43.45 - 63.45)	127.9	
1Q15		1/8/2015	46.29	46.49	400.20	400.40	0.20	400.36		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	446.69	4/4/2016	44.45	44.50	402.19	402.24	0.05	402.23	403.24 - 383.24 (43.45 - 63.45)	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	*
1Q17		1/16/2017	42.25	42.31	404.38	404.44	0.06	404.43		59.7	*
2Q17		4/3/2017	42.49	42.52	404.17	404.20	0.03	404.19		43.2	*
3Q17		7/5/2017	41.49	41.51	405.18	405.20	0.02	405.20		15.0	*
P 60 11											
4Q14	446.18	10/3/2014	NE	44.62	NA	NA	NA	401.56	413.03 - 383.03 (33.15 - 63.15)	0.0	
1Q15		1/8/2015	NE	44.85	NA	NA	NA	401.41		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	446.26	4/4/2016	NE	43.08	NA	NA	NA	403.18	413.11 - 383.11 (33.15 - 63.15)	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	
1Q17		1/16/2017	NE	41.22	NA	NA	NA	405.04		0.0	
2Q17		4/3/2017	NE	41.62	NA	NA	NA	404.64		0.0	
3Q17		7/5/2017	NE	41.75	NA	NA	NA	404.51		0.5	
P 60 12											
4Q14	443.31	10/3/2014	NE	42.93	NA	NA	NA	400.38	383.31 - 373.31 (60.00 - 70.00)	0.6	*
1Q15		1/8/2015	NE	43.16	NA	NA	NA	400.27		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	443.43	4/4/2016	NE	41.31	NA	NA	NA	402.12	383.43 - 373.43 (60.00 - 70.00)	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	*
1Q17		1/16/2017	NE	39.00	NA	NA	NA	404.43		23.4	*
2Q17		4/3/2017	NE	39.21	NA	NA	NA	404.22		23.5	*
3Q17		7/5/2017	NE	38.26	NA	NA	NA	405.17		2.1	*
P 60 13											
4Q14	442.43	10/3/2014	NE	40.78	NA	NA	NA	401.65	402.43 - 382.43 (40.00 - 60.00)	15.0	
1Q15		1/8/2015	NE	40.61	NA	NA	NA	402.31		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	442.92	4/4/2016	NE	39.72	NA	NA	NA	403.20	402.92 - 382.92 (40.00 - 60.00)	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	*
1Q17		1/16/2017	NE	38.18	NA	NA	NA	404.74		101.8	*
2Q17		4/3/2017	NE	38.62	NA	NA	NA	404.30		0.0	*
3Q17		7/5/2017	NE	37.70	NA	NA	NA	405.22		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	446.98	10/3/2014	NE	45.38	NA	NA	NA	401.60	410.50 - 395.50 (36.48 - 51.48)	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	
1Q17		1/16/2017	NE	41.91	NA	NA	NA	404.93		38.7	
2Q17		4/3/2017	NM	42.50	NA	NA	NA	404.34		0.0	
3Q17		7/5/2017	NE	41.47	NA	NA	NA	405.37		0.1	
P 61											
4Q14	444.27	10/2/2014	43.47	44.23	400.04	400.80	0.76	400.64	398.59 - 373.59 (45.68 - 70.68)	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	*
1Q17		1/16/2017	NE	40.19	NA	NA	NA	404.28		113.1	*
2Q17		4/3/2017	40.50	40.61	403.86	403.97	0.11	403.95		8.2	*
3Q17		7/6/2017	39.60	39.71	404.76	404.87	0.11	404.85		935.1	*
P 62											
4Q14	442.32	10/3/2014	41.64	42.89	399.43	400.68	1.25	400.43	400.85 - 375.85 (41.47 - 66.47)	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	*
1Q17		1/16/2017	NE	37.81	NA	NA	NA	404.62		118.6	*
2Q17		4/3/2017	38.04	38.13	404.30	404.39	0.09	404.37		187.9	*
3Q17		7/5/2017	37.28	37.33	405.10	405.15	0.05	405.14		32.0	*
P 63											
4Q14	445.75	10/2/2014	45.90	45.94	399.81	399.85	0.04	399.84	398.46 - 373.46 (47.29 - 72.29)	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	*
1Q17		1/17/2017	41.58	41.62	404.23	404.27	0.04	404.26		52.7	*
2Q17		4/3/2017	41.66	41.69	404.16	404.19	0.03	404.18		105.7	*
3Q17		7/6/2017	40.97	41.01	404.84	404.88	0.04	404.87		207.5	*
P 64											
4Q14	446.52	10/2/2014	47.30	47.62	398.90	399.22	0.32	399.16	399.29 - 374.29 (47.23 - 72.23)	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	*
1Q17		1/17/2017	NE	42.64	NA	NA	NA	404.25		398.5	*
2Q17		4/4/2017	43.10	43.18	403.71	403.79	0.08	403.77		71.8	*
3Q17		7/6/2017	42.09	42.16	404.73	404.80	0.07	404.79		331.6	*

SEE LAST PAGE OF TABLE FOR NOTES

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 65											
4Q14	444.60	10/2/2014	NE	44.44	NA	NA	NA	400.16	397.58 - 372.58 (47.02 - 72.02)	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	*
1Q17		1/16/2017	NE	40.08	NA	NA	NA	404.52		7.6	*
2Q17		4/3/2017	NE	40.08	NA	NA	NA	404.52		70.7	*
3Q17		7/6/2017	NE	39.89	NA	NA	NA	404.71		65.6	*
P 66											
4Q14	436.70	10/3/2014	NE	34.77	NA	NA	NA	401.93	401.98 - 376.98 (34.72 - 59.72)	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	*
1Q17		1/17/2017	NE	32.41	NA	NA	NA	404.40		88.1	*
2Q17		4/4/2017	NE	32.55	NA	NA	NA	404.26		112.3	*
3Q17		7/6/2017	NE	31.32	NA	NA	NA	405.49		29.9	*
P 67											
4Q14	444.13	10/3/2014	NE	41.37	NA	NA	NA	402.76	402.16 - 377.16 (41.98 - 66.98)	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	*
1Q17		1/17/2017	NE	38.50	NA	NA	NA	405.60		35.6	*
2Q17		4/4/2017	NE	38.85	NA	NA	NA	405.25		4.3	*
3Q17		7/6/2017	NE	37.52	NA	NA	NA	406.58		4.9	*
P 68											
4Q14	445.07	10/3/2014	44.56	44.67	400.40	400.51	0.11	400.49	399.81 - 374.81 (45.26 - 70.26)	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	*
1Q17		1/16/2017	40.70	40.71	404.47	404.48	0.01	404.48		100.9	*
2Q17		4/3/2017	41.02	41.07	404.11	404.16	0.05	404.15		77.8	*
3Q17		7/5/2017	40.10	40.12	405.06	405.08	0.02	405.08		180.8	*
P 69											
4Q14	443.18	10/2/2014	NE	43.01	NA	NA	NA	400.17	402.36 - 377.36 (40.82 - 65.82)	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	*
1Q17		1/16/2017	NE	39.31	NA	NA	NA	404.09		337.3	*
2Q17		4/3/2017	NE	39.55	NA	NA	NA	403.85		66.6	*
3Q17		7/5/2017	NE	38.76	NA	NA	NA	404.64		142.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 70											
4Q14	442.83	10/2/2014	42.08	42.72	400.11	400.75	0.64	400.62	398.16 - 373.16 (44.67 - 69.67)	299.6	*
1Q15		1/8/2015	42.79	43.42	399.53	400.16	0.63	400.03		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	442.95	4/4/2016	41.07	41.11	401.84	401.88	0.04	401.87	398.28 - 373.28 (44.67 - 69.67)	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	*
1Q17		1/16/2017	38.52	38.57	404.38	404.43	0.05	404.42		289.1	*
2Q17		4/3/2017	38.81	38.84	404.11	404.14	0.03	404.13		131.7	*
3Q17		7/6/2017	38.00	38.03	404.92	404.95	0.03	404.94		2525.0	*
P 71											
4Q14	444.83	10/2/2014	NE	43.43	NA	NA	NA	401.40	402.22 - 377.22 (42.61 - 67.61)	185.5	
1Q15		1/5/2015	NE	43.98	NA	NA	NA	400.96		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	444.94	4/4/2016	NE	42.27	NA	NA	NA	402.67	402.33 - 377.33 (42.61 - 67.61)	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	*
1Q17		1/16/2017	NE	40.05	NA	NA	NA	404.89		0.0	*
2Q17		4/3/2017	NE	40.43	NA	NA	NA	404.51		32.3	*
3Q17		7/6/2017	NE	39.66	NA	NA	NA	405.28		555.1	*
P 72											
4Q14	444.43	10/2/2014	NE	43.02	NA	NA	NA	401.41	398.66 - 373.66 (45.77 - 70.77)	16.2	*
1Q15		1/8/2015	NE	43.63	NA	NA	NA	400.86		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	444.49	4/4/2016	NE	41.82	NA	NA	NA	402.67	398.72 - 373.72 (45.77 - 70.77)	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	*
1Q17		1/16/2017	NE	39.55	NA	NA	NA	404.94		14.4	*
2Q17		4/3/2017	NE	39.66	NA	NA	NA	404.83		11.3	*
3Q17		7/6/2017	NE	39.27	NA	NA	NA	405.22		32.9	*
P 73											
4Q14	443.76	10/3/2014	NE	42.69	NA	NA	NA	401.07	402.16 - 377.16 (41.59 - 66.59)	0.7	
1Q15		1/5/2015	NE	45.24	NA	NA	NA	398.62		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	443.86	4/4/2016	NE	42.44	NA	NA	NA	401.42	402.27 - 377.27 (41.59 - 66.59)	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	*
1Q17		1/16/2017	NE	40.00	NA	NA	NA	403.86		111.5	*
2Q17		4/3/2017	NE	39.55	NA	NA	NA	404.31		81.4	*
3Q17		7/6/2017	NE	39.59	NA	NA	NA	404.27		848.2	*
P 74											
4Q14	442.63	10/2/2014	NE	42.21	NA	NA	NA	400.42	398.20 - 373.20 (44.43 - 69.43)	0.0	*
1Q15		1/9/2015	NE	43.63	NA	NA	NA	399.09		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	442.72	4/4/2016	NE	41.16	NA	NA	NA	401.56	398.29 - 373.29 (44.43 - 69.43)	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	*
1Q17		1/16/2017	NE	38.64	NA	NA	NA	404.08		0.0	*
2Q17		4/3/2017	NE	38.88	NA	NA	NA	403.84		0.0	*
3Q17		7/5/2017	NE	38.04	NA	NA	NA	404.68		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 75											
4Q14	446.32	10/3/2014	NE	44.52	NA	NA	NA	401.80	403.19 - 378.19 (43.13 - 68.13)	0.1	
1Q15		1/9/2015	NE	46.74	NA	NA	NA	399.68		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	446.42	4/5/2016	NE	44.33	NA	NA	NA	402.09	403.29 - 378.29 (43.13 - 68.13)	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	*
1Q17		1/17/2017	NE	42.25	NA	NA	NA	404.17		33.6	*
2Q17		4/4/2017	NE	42.19	NA	NA	NA	404.23		30.9	*
3Q17		7/6/2017	NE	42.45	NA	NA	NA	403.97		12.4	*
P 82A											
4Q14	434.69	10/2/2014	NE	29.25	NA	NA	NA	405.44	401.48 - 386.48 (33.21 - 48.21)	0.0	*
1Q15		1/8/2015	NE	29.59	NA	NA	NA	405.43		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	435.02	4/5/2016	NE	27.66	NA	NA	NA	407.36	401.81 - 386.81 (33.21 - 48.21)	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	*
1Q17		1/16/2017	NE	26.17	NA	NA	NA	408.85		0.0	*
2Q17		4/4/2017	NE	26.88	NA	NA	NA	408.14		0.0	*
3Q17		7/6/2017	NE	24.70	NA	NA	NA	410.32		0.0	*
P 82B											
4Q14	434.44	10/2/2014	NE	28.94	NA	NA	NA	405.50	370.84 - 368.84 (63.60 - 65.60)	0.0	*
1Q15		1/8/2015	NE	29.32	NA	NA	NA	405.16		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	434.48	4/5/2016	NE	27.39	NA	NA	NA	407.09	370.88 - 368.88 (63.60 - 65.60)	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	*
1Q17		1/16/2017	NE	25.88	NA	NA	NA	408.60		0.0	*
2Q17		4/4/2017	NE	26.61	NA	NA	NA	407.87		0.0	*
3Q17		7/6/2017	NE	24.42	NA	NA	NA	410.06		0.0	*
P 82C											
4Q14	434.16	10/2/2014	NE	29.09	NA	NA	NA	405.07	351.39 - 349.39 (82.77 - 84.77)	0.0	*
1Q15		1/8/2015	NE	29.02	NA	NA	NA	405.19		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	434.21	4/5/2016	NE	27.47	NA	NA	NA	406.74	351.44 - 349.44 (82.77 - 84.77)	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	*
1Q17		1/16/2017	NE	25.60	NA	NA	NA	408.61		0.0	*
2Q17		4/4/2017	NE	26.30	NA	NA	NA	407.91		0.0	*
3Q17		7/6/2017	NE	24.12	NA	NA	NA	410.09		0.0	*
P 82D											
4Q14	434.85	10/2/2014	NE	29.74	NA	NA	NA	405.11	323.43 - 321.43 (111.42 - 113.42)	0.0	*
1Q15		1/6/2015	NE	29.80	NA	NA	NA	405.09		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	434.89	4/5/2016	NE	27.72	NA	NA	NA	407.17	323.47 - 321.47 (111.42 - 113.42)	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	*
1Q17		1/16/2017	NE	26.40	NA	NA	NA	408.49		0.0	*
2Q17		4/4/2017	NE	27.09	NA	NA	NA	407.80		0.0	*
3Q17		7/6/2017	NE	24.90	NA	NA	NA	409.99		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 83A											
4Q14	445.23	10/1/2014	NE	44.60	NA	NA	NA	400.63	398.58 - 383.58 (46.65 - 61.65)	0.0	*
1Q15		1/6/2015	NE	44.80	NA	NA	NA	400.56		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	445.36	4/4/2016	NE	41.74	NA	NA	NA	403.62	398.71 - 383.71 (46.65 - 61.65)	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	*
1Q17		1/16/2017	NE	39.25	NA	NA	NA	406.11		0.0	*
2Q17		4/3/2017	NE	39.56	NA	NA	NA	405.80		0.0	*
3Q17		7/6/2017	NE	38.15	NA	NA	NA	407.21		0.0	*
P 83B											
4Q14	445.47	10/1/2014	NE	44.87	NA	NA	NA	400.60	375.82 - 373.82 (69.65 - 71.65)	0.0	*
1Q15		1/6/2015	NE	44.94	NA	NA	NA	400.61		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	445.55	4/4/2016	NE	42.03	NA	NA	NA	403.52	375.90 - 373.90 (69.65 - 71.65)	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	*
1Q17		1/16/2017	NE	39.48	NA	NA	NA	406.07		0.4	*
2Q17		4/3/2017	NE	39.83	NA	NA	NA	405.72		11.0	*
3Q17		7/6/2017	NE	38.71	NA	NA	NA	406.84		0.0	*
P 83C											
4Q14	445.64	10/1/2014	NE	45.00	NA	NA	NA	400.64	353.25 - 351.25 (92.39 - 94.39)	0.4	*
1Q15		1/6/2015	NE	45.53	NA	NA	NA	400.25		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	445.78	4/4/2016	NE	42.50	NA	NA	NA	403.28	353.39 - 351.39 (92.39 - 94.39)	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	*
1Q17		1/16/2017	NE	39.63	NA	NA	NA	406.15		0.6	*
2Q17		4/3/2017	NE	39.96	NA	NA	NA	405.82		1.4	*
3Q17		7/6/2017	NE	38.56	NA	NA	NA	407.22		0.0	*
P 83D											
4Q14	445.55	10/1/2014	NE	45.05	NA	NA	NA	400.50	311.84 - 309.84 (133.71 - 135.71)	0.1	*
1Q15		1/6/2015	NE	45.32	NA	NA	NA	400.38		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	445.70	4/4/2016	NE	42.43	NA	NA	NA	403.27	311.99 - 309.99 (133.71 - 135.71)	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	*
1Q17		1/16/2017	NE	39.59	NA	NA	NA	406.11		1.2	*
2Q17		4/3/2017	NE	39.94	NA	NA	NA	405.76		0.0	*
3Q17		7/6/2017	NE	38.51	NA	NA	NA	407.19		0.0	*
P 84A											
4Q14	446.39	10/3/2014	NE	44.95	NA	NA	NA	401.44	397.89 - 382.89 (48.50 - 63.50)	0.0	*
1Q15		1/12/2015	NE	44.96	NA	NA	NA	401.53		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	446.49	4/5/2016	NE	42.37	NA	NA	NA	404.12	397.99 - 382.99 (48.50 - 63.50)	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	*
1Q17		1/17/2017	NE	40.34	NA	NA	NA	406.15		0.0	*
2Q17		4/4/2017	NE	40.80	NA	NA	NA	405.69		0.0	*
3Q17		7/5/2017	NM	NM	NA	NA	NA	NA		NM	Inaccessible due to construction

SEE LAST PAGE OF TABLE FOR NOTES

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 84B											
4Q14	446.10	10/3/2014	NE	44.73	NA	NA	NA	401.37	372.60 - 370.60 (73.50 - 75.50)	0.0	*
1Q15		1/12/2015	NE	44.68	NA	NA	NA	401.53		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	446.21	4/5/2016	NE	42.33	NA	NA	NA	403.88	372.71 - 370.71 (73.50 - 75.50)	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	*
1Q17		1/17/2017	NE	40.08	NA	NA	NA	406.13		0.0	*
2Q17		4/4/2017	NE	40.54	NA	NA	NA	405.67		0.0	*
3Q17		7/5/2017	NM	NM	NA	NA	NA	NA		NM	Inaccessible due to construction
P 84C											
4Q14	446.13	10/3/2014	NE	45.03	NA	NA	NA	401.10	352.08 - 350.08 (94.05 - 96.05)	1.1	*
1Q15		1/12/2015	NE	44.69	NA	NA	NA	401.53		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	446.22	4/5/2016	NE	42.28	NA	NA	NA	403.94	352.17 - 350.17 (94.05 - 96.05)	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	*
1Q17		1/17/2017	NE	40.08	NA	NA	NA	406.14		0.0	*
2Q17		4/4/2017	NE	40.54	NA	NA	NA	405.68		0.0	*
3Q17		7/5/2017	NM	NM	NA	NA	NA	NA		NM	Inaccessible due to construction
P 84D											
4Q14	446.14	10/3/2014	NE	45.02	NA	NA	NA	401.12	324.99 - 322.99 (121.15 - 123.15)	0.0	*
1Q15		1/12/2015	NE	44.70	NA	NA	NA	401.54		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	446.24	4/5/2016	NE	42.26	NA	NA	NA	403.98	325.09 - 323.09 (121.15 - 123.15)	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	*
1Q17		1/17/2017	NE	NE	NA	NA	NA	NA		0.0	
2Q17		4/4/2017	NE	40.55	NA	NA	NA	405.69		0.0	*
3Q17		7/5/2017	NM	NM	NA	NA	NA	NA		NM	Inaccessible due to construction
P 88A											
4Q14	443.12	10/3/2014	NE	36.04	NA	NA	NA	407.08	404.72 - 389.72 (38.40 - 53.40)	0.1	*
1Q15		1/9/2015	NE	35.54	NA	NA	NA	407.55		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	443.09	4/5/2016	NE	33.21	NA	NA	NA	409.88	404.69 - 389.69 (38.40 - 53.40)	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	*
1Q17		1/17/2017	NE	31.75	NA	NA	NA	411.34		0.0	*
2Q17		4/4/2017	NE	32.36	NA	NA	NA	410.73		0.0	*
3Q17		7/6/2017	NE	30.57	NA	NA	NA	412.52		0.0	*
P 88B											
4Q14	443.17	10/3/2014	NE	36.09	NA	NA	NA	407.08	371.17 - 369.17 (72.00 - 74.00)	0.1	*
1Q15		1/9/2015	NE	35.61	NA	NA	NA	407.55		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	443.16	4/5/2016	NE	33.43	NA	NA	NA	409.73	371.16 - 369.16 (72.00 - 74.00)	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	*
1Q17		1/17/2017	NE	31.81	NA	NA	NA	411.35		3.5	*
2Q17		4/4/2017	NE	32.43	NA	NA	NA	410.73		0.0	*
3Q17		7/6/2017	NE	30.64	NA	NA	NA	412.52		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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											
4Q14	443.16	10/3/2014	NE	35.74	NA	NA	NA	407.42	350.86 - 348.86 (92.30 - 94.30)	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	*
1Q17		1/17/2017	NE	31.77	NA	NA	NA	411.36		0.0	*
2Q17		4/4/2017	NE	32.38	NA	NA	NA	410.75		0.0	*
3Q17		7/6/2017	NE	30.60	NA	NA	NA	412.53		0.0	*
P 88D											
4Q14	443.23	10/3/2014	NE	36.43	NA	NA	NA	406.80	329.53 - 327.53 (113.70 - 115.70)	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	*
1Q17		1/17/2017	NE	31.91	NA	NA	NA	411.29		0.0	*
2Q17		4/4/2017	NE	32.54	NA	NA	NA	410.66		0.0	*
3Q17		7/6/2017	NE	30.69	NA	NA	NA	412.51		0.0	*
P 89B											
4Q14	447.35	10/2/2014	NE	44.19	NA	NA	NA	403.16	369.99 - 367.99 (77.36 - 79.36)	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	*
1Q17		1/17/2017	NE	38.76	NA	NA	NA	408.68		0.0	*
2Q17		4/4/2017	NE	39.32	NA	NA	NA	408.12		0.0	*
3Q17		7/6/2017	NE	37.49	NA	NA	NA	409.95		0.0	*
P 89C											
4Q14	447.68	10/2/2014	NE	44.53	NA	NA	NA	403.15	350.05 - 348.05 (97.63 - 99.63)	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	*
1Q17		1/17/2017	NE	39.11	NA	NA	NA	408.65		0.0	*
2Q17		4/4/2017	NE	39.66	NA	NA	NA	408.10		0.0	*
3Q17		7/6/2017	NE	37.85	NA	NA	NA	409.91		0.0	*
P 89D											
4Q14	447.54	10/2/2014	NE	44.55	NA	NA	NA	402.99	307.20 - 305.20 (140.34 - 142.34)	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	*
1Q17		1/17/2017	NE	39.03	NA	NA	NA	408.60		0.0	*
2Q17		4/4/2017	NE	39.51	NA	NA	NA	408.12		0.0	*
3Q17		7/6/2017	NE	37.84	NA	NA	NA	409.79		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 91A											
4Q14	447.19	10/2/2014	48.10	51.99	395.20	399.09	3.89	398.31	395.68 - 380.68 (51.51 - 66.51)	22.9	*
1Q15		1/9/2015	47.98	51.84	395.40	399.26	3.86	398.49		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	447.24	4/4/2016	46.49	46.53	400.71	400.75	0.04	400.74	395.72 - 380.72 (51.51 - 66.51)	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	*
1Q17		1/16/2017	NE	43.81	NA	NA	NA	403.43		139.4	*
2Q17		4/4/2017	44.61	44.64	402.60	402.63	0.03	402.62		43.8	*
3Q17		7/6/2017	43.18	43.21	404.03	404.06	0.03	404.05		303.5	*
P 91B											
4Q14	447.26	10/2/2014	NE	48.96	NA	NA	NA	398.30	372.57 - 370.57 (74.69 - 76.69)	29.1	*
1Q15		1/9/2015	NE	48.86	NA	NA	NA	398.42		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	447.28	4/4/2016	NE	46.67	NA	NA	NA	400.61	372.59 - 370.59 (74.69 - 76.69)	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	*
1Q17		1/16/2017	NE	43.93	NA	NA	NA	403.35		2.0	*
2Q17		4/4/2017	NE	44.74	NA	NA	NA	402.54		6.7	*
3Q17		7/6/2017	NE	43.26	NA	NA	NA	404.02		28.7	*
P 91C											
4Q14	447.02	10/2/2014	NE	48.71	NA	NA	NA	398.31	352.29 - 350.29 (94.73 - 96.73)	0.1	*
1Q15		1/9/2015	NE	48.61	NA	NA	NA	398.46		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	447.07	4/4/2016	NE	46.39	NA	NA	NA	400.68	352.34 - 350.34 (94.73 - 96.73)	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	*
1Q17		1/16/2017	NE	43.62	NA	NA	NA	403.45		0.2	*
2Q17		4/4/2017	NE	44.51	NA	NA	NA	402.56		0.0	*
3Q17		7/6/2017	NE	43.03	NA	NA	NA	404.04		0.0	*
P 91D											
4Q14	447.02	10/2/2014	NE	48.71	NA	NA	NA	398.31	278.70 - 276.70 (168.32 - 170.32)	0.0	*
1Q15		1/9/2015	NE	48.60	NA	NA	NA	398.46		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	447.06	4/4/2016	NE	44.01	NA	NA	NA	403.05	278.74 - 276.74 (168.32 - 170.32)	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	*
1Q17		1/16/2017	NE	43.67	NA	NA	NA	403.39		1.2	*
2Q17		4/4/2017	NE	44.50	NA	NA	NA	402.56		0.1	*
3Q17		7/6/2017	NE	43.02	NA	NA	NA	404.04		0.0	*
P 92A											
4Q14	446.12	10/2/2014	46.73	46.76	399.36	399.39	0.03	399.38	398.55 - 383.55 (47.57 - 62.57)	130.2	*
1Q15		1/9/2015	46.31	46.35	399.89	399.93	0.04	399.92		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	446.24	4/4/2016	44.17	44.21	402.03	402.07	0.04	402.06	398.67 - 383.67 (47.57 - 62.57)	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	*
1Q17		1/17/2017	42.19	42.22	404.02	404.05	0.03	404.04		42.0	*
2Q17		4/4/2017	42.38	42.40	403.84	403.86	0.02	403.86		55.5	*
3Q17		7/6/2017	41.87	41.89	404.35	404.37	0.02	404.37		215.3	*

SEE LAST PAGE OF TABLE FOR NOTES

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 92B											
4Q14	446.07	10/2/2014	NE	46.70	NA	NA	NA	399.37	372.42 - 370.42 (73.65 - 75.65)	0.6	*
1Q15		1/9/2015	NE	46.28	NA	NA	NA	399.90		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	446.18	4/4/2016	NE	44.17	NA	NA	NA	402.01	372.53 - 370.53 (73.65 - 75.65)	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	*
1Q17		1/17/2017	NE	42.18	NA	NA	NA	404.00		0.0	*
2Q17		4/4/2017	NE	42.36	NA	NA	NA	403.82		0.0	*
3Q17		7/6/2017	NE	41.85	NA	NA	NA	404.33		1.3	*
P 92C											
4Q14	445.98	10/2/2014	NM	NM	NA	NA	NA	NA	352.54 - 350.54 (93.44 - 95.44)	NM	Well damaged
1Q15		1/9/2015	NE	46.25	NA	NA	NA	399.92		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	446.17	4/4/2016	NE	44.15	NA	NA	NA	402.02	353.21 - 348.21 (92.96 - 97.96)	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	*
1Q17		1/17/2017	NE	42.16	NA	NA	NA	404.01		1.8	*
2Q17		4/4/2017	NE	42.35	NA	NA	NA	403.82		1.5	*
3Q17		7/6/2017	NE	41.85	NA	NA	NA	404.32		0.6	*
P 92D											
4Q14	445.90	10/2/2014	NE	46.62	NA	NA	NA	399.28	304.90 - 302.90 (141.00 - 143.00)	0.2	*
1Q15		1/9/2015	NE	46.10	NA	NA	NA	399.90		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	446.00	4/4/2016	NE	44.01	NA	NA	NA	401.99	305.00 - 303.00 (141.00 - 143.00)	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	*
1Q17		1/17/2017	NE	42.04	NA	NA	NA	403.96		0.0	*
2Q17		4/4/2017	NE	42.19	NA	NA	NA	403.81		0.6	*
3Q17		7/6/2017	NE	41.73	NA	NA	NA	404.27		0.0	*
P 93A											
4Q14	446.58	10/3/2014	NE	45.09	NA	NA	NA	401.48	398.41 - 383.41 (48.17 - 63.17)	2.2	*
1Q15		1/8/2015	NE	46.84	NA	NA	NA	398.28		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	445.12	4/4/2016	NE	43.08	NA	NA	NA	402.04	402.05 - 392.05 (43.07 - 53.07)	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	*
1Q17		1/16/2017	NE	41.04	NA	NA	NA	404.08		7.6	*
2Q17		4/3/2017	NE	41.16	NA	NA	NA	403.96		51.2	*
3Q17		7/5/2017	NE	40.10	NA	NA	NA	405.02		0.0	*
P 93B											
4Q14	446.46	10/3/2014	NE	45.13	NA	NA	NA	401.33	371.86 - 369.86 (74.60 - 76.60)	1.0	*
1Q15		1/9/2015	NE	47.10	NA	NA	NA	399.42		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	446.52	4/4/2016	NE	44.54	NA	NA	NA	401.98	371.92 - 369.92 (74.60 - 76.60)	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	*
1Q17		1/16/2017	NE	42.41	NA	NA	NA	404.11		0.1	*
2Q17		4/3/2017	NE	42.51	NA	NA	NA	404.01		0.0	*
3Q17		7/5/2017	NE	41.45	NA	NA	NA	405.07		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 93C											
4Q14	446.51	10/3/2014	NE	45.01	NA	NA	NA	401.50	352.26 - 350.26 (94.26 - 96.26)	0.4	*
1Q15		1/8/2015	NE	46.36	NA	NA	NA	399.92		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	446.28	4/4/2016	NE	44.20	NA	NA	NA	402.08	353.81 - 348.81 (92.47 - 97.47)	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	*
1Q17		1/16/2017	NE	42.20	NA	NA	NA	404.08		12.6	*
2Q17		4/3/2017	NE	42.31	NA	NA	NA	403.97		0.0	*
3Q17		7/5/2017	NE	41.26	NA	NA	NA	405.02		0.0	*
P 93D											
4Q14	446.89	10/3/2014	NE	45.16	NA	NA	NA	401.73	321.14 - 319.14 (125.75 - 127.75)	14.4	*
1Q15		1/8/2015	NE	46.82	NA	NA	NA	399.91		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	446.73	4/4/2016	NE	44.61	NA	NA	NA	402.12	320.98 - 318.98 (125.75 - 127.75)	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	*
1Q17		1/16/2017	NE	42.59	NA	NA	NA	404.14		0.0	*
2Q17		4/3/2017	NE	42.72	NA	NA	NA	404.01		0.0	*
3Q17		7/5/2017	NE	41.65	NA	NA	NA	405.08		0.0	*
P 94											
4Q14	444.65	10/1/2014	NE	41.10	NA	NA	NA	403.55	398.80 - 383.80 (45.85 - 60.85)	0.0	*
1Q15		1/6/2015	NE	41.09	NA	NA	NA	404.05		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	445.14	4/4/2016	NE	37.14	NA	NA	NA	408.00	399.29 - 384.29 (45.85 - 60.85)	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	*
1Q17		1/16/2017	NE	35.04	NA	NA	NA	410.10		0.0	*
2Q17		4/3/2017	NE	35.64	NA	NA	NA	409.50		0.0	*
3Q17		7/6/2017	NE	33.00	NA	NA	NA	412.14		0.0	*
P 95											
4Q14	443.44	10/3/2014	NE	34.39	NA	NA	NA	409.05	406.92 - 391.92 (36.52 - 51.52)	0.0	*
1Q15		1/12/2015	NE	34.16	NA	NA	NA	409.26		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	443.42	4/5/2016	NE	31.37	NA	NA	NA	412.05	406.90 - 391.90 (36.52 - 51.52)	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	*
1Q17		1/17/2017	NE	29.71	NA	NA	NA	413.71		6.8	*
2Q17		4/4/2017	NE	30.40	NA	NA	NA	413.02		0.0	*
3Q17		7/6/2017	NE	28.61	NA	NA	NA	414.81		0.0	*
P 102											
4Q14	444.91	10/3/2014	NE	37.87	NA	NA	NA	407.04	402.16 - 382.16 (42.75 - 62.75)	6.8	*
1Q15		1/9/2015	NE	37.20	NA	NA	NA	407.77		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	444.97	4/5/2016	NE	34.74	NA	NA	NA	410.23	402.22 - 382.22 (42.75 - 62.75)	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	*
1Q17		1/17/2017	NE	33.00	NA	NA	NA	411.97		22.3	*
2Q17		4/4/2017	NE	33.68	NA	NA	NA	411.29		106.9	*
3Q17		7/6/2017	NE	31.80	NA	NA	NA	413.17		15.6	*

SEE LAST PAGE OF TABLE FOR NOTES

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 114R (P 114)											
4Q14	432.40	10/3/2014	NE	29.83	NA	NA	NA	402.58	399.73 - 379.73 (32.67 - 52.67)	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	
1Q17		1/17/2017	NE	24.81	NA	NA	NA	404.45		1.9	
2Q17		4/5/2017	NE	24.93	NA	NA	NA	404.33		0.7	
3Q17		7/6/2017	NE	22.38	NA	NA	NA	406.88		43.7	*
P 115											
4Q14	433.31	10/3/2014	NE	30.52	NA	NA	NA	402.79	401.01 - 381.01 (32.30 - 52.30)	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	*
1Q17		1/17/2017	NE	28.88	NA	NA	NA	404.48		1.9	*
2Q17		4/5/2017	NE	29.20	NA	NA	NA	404.16		0.0	*
3Q17		7/6/2017	NE	26.28	NA	NA	NA	407.08		0.0	*
P 116											
4Q14	436.45	10/3/2014	NE	33.85	NA	NA	NA	402.60	399.01 - 379.01 (37.44 - 57.44)	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	*
1Q17		1/17/2017	NE	32.37	NA	NA	NA	404.26		0.1	*
2Q17		4/5/2017	NE	32.66	NA	NA	NA	403.97		0.0	*
3Q17		7/6/2017	NE	29.61	NA	NA	NA	407.02		2.9	*
P 117											
4Q14	432.67	10/3/2014	NE	30.03	NA	NA	NA	402.64	399.74 - 379.74 (32.93 - 52.93)	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	*
1Q17		1/17/2017	NE	28.55	NA	NA	NA	404.16		0.0	*
2Q17		4/5/2017	NE	28.93	NA	NA	NA	403.78		0.0	*
3Q17		7/6/2017	NE	25.78	NA	NA	NA	406.93		0.0	*
P 118											
4Q14	431.32	10/3/2014	NE	28.71	NA	NA	NA	402.61	400.20 - 384.27 (31.12 - 47.05)	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	*
1Q17		1/17/2017	NE	27.61	NA	NA	NA	403.70		0.6	*
2Q17		4/5/2017	NE	27.92	NA	NA	NA	403.39		0.0	*
3Q17		7/6/2017	NE	24.45	NA	NA	NA	406.86		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 119											
4Q14	431.92	10/3/2014	NE	29.14	NA	NA	NA	402.78	401.25 - 385.32 (30.67 - 46.60)	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	*
1Q17		1/17/2017	NE	26.92	NA	NA	NA	404.98		0.0	*
2Q17		4/5/2017	NE	27.14	NA	NA	NA	404.76		0.0	*
3Q17		7/6/2017	NE	25.06	NA	NA	NA	406.84		1.5	*
P 120											
4Q14	432.78	10/3/2014	NE	29.22	NA	NA	NA	403.56	401.40 - 385.47 (31.38 - 47.31)	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	*
1Q17		1/17/2017	NE	27.37	NA	NA	NA	405.45		0.0	*
2Q17		4/5/2017	NE	27.55	NA	NA	NA	405.27		0.0	*
3Q17		7/6/2017	NE	25.10	NA	NA	NA	407.72		0.4	*
P 129											
4Q14	432.46	10/3/2014	NE	30.31	NA	NA	NA	402.15	400.49 - 384.56 (31.97 - 47.90)	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	*
1Q17		1/17/2017	NE	30.09	NA	NA	NA	402.34		0.0	*
2Q17		4/5/2017	NE	30.17	NA	NA	NA	402.26		0.0	*
3Q17		7/6/2017	NE	26.09	NA	NA	NA	406.34		0.0	*
ROST 3 MW											
4Q14	442.29	10/1/2014	NE	41.16	NA	NA	NA	401.13	404.48 - 394.48 (37.81 - 47.81)	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	
1Q17		1/11/2017	NE	37.67	NA	NA	NA	404.62		181.7	*
2Q17		4/3/2017	NE	38.13	NA	NA	NA	404.16		247.7	
3Q17		7/5/2017	NE	36.64	NA	NA	NA	405.65		211.8	*
ROST 4 PZ											
4Q14	442.13	10/1/2014	NE	40.25	NA	NA	NA	401.88	407.20 - 397.20 (34.93 - 44.93)	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	
1Q17		1/16/2017	NE	36.96	NA	NA	NA	405.17		8.2	
2Q17		4/3/2017	NE	37.35	NA	NA	NA	404.78		0.0	
3Q17		7/5/2017	NE	36.55	NA	NA	NA	405.58		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

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)											
4Q14	442.11	10/1/2014	NE	39.74	NA	NA	NA	402.37	407.34 - 397.34 (34.77 - 44.77)	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	
3Q16		7/6/2016	NE	36.84	NA	NA	NA	405.27		0.0	
4Q16		10/3/2016	NE	36.52	NA	NA	NA	405.59		0.3	
1Q17		1/16/2017	NE	36.23	NA	NA	NA	405.88		0.3	
2Q17		4/3/2017	NE	36.80	NA	NA	NA	405.31		0.0	
3Q17		7/5/2017	NE	35.80	NA	NA	NA	406.31		0.0	
ROST 4 PZ(B)											
4Q14	442.38	10/1/2014	NE	40.00	NA	NA	NA	402.38	407.33 - 397.33 (35.05 - 45.05)	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	
1Q17		1/16/2017	NE	36.96	NA	NA	NA	405.42		12.0	
2Q17		4/3/2017	NE	37.43	NA	NA	NA	404.95		0.0	
3Q17		7/5/2017	NE	36.53	NA	NA	NA	405.85		0.0	
ROST 4 PZ(C)											
4Q14	442.66	10/1/2014	NE	41.28	NA	NA	NA	401.38	407.71 - 397.71 (34.95 - 44.95)	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	
1Q17		1/16/2017	NE	37.88	NA	NA	NA	404.78		9.8	
2Q17		4/3/2017	NE	38.24	NA	NA	NA	404.42		0.0	
3Q17		7/5/2017	NE	37.23	NA	NA	NA	405.43		0.0	
ROST 4 PZ(D)											
4Q14	442.98	10/1/2014	NE	41.06	NA	NA	NA	401.92	408.01 - 398.01 (34.97 - 44.97)	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	
1Q17		1/16/2017	NE	37.68	NA	NA	NA	405.30		71.9	
2Q17		4/3/2017	NE	38.09	NA	NA	NA	404.89		0.0	
3Q17		7/5/2017	NE	37.17	NA	NA	NA	405.81		0.0	
ROST 4 PZ(E)											
4Q14	441.96	10/1/2014	NE	39.71	NA	NA	NA	402.25	407.21 - 397.21 (34.75 - 44.75)	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	
1Q17		1/16/2017	NE	36.94	NA	NA	NA	405.02		0.0	
2Q17		4/3/2017	NE	37.28	NA	NA	NA	404.68		0.0	
3Q17		7/5/2017	NE	36.48	NA	NA	NA	405.48		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

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(F)											
4Q14	442.12	10/1/2014	NE	39.79	NA	NA	NA	402.33	407.59 - 397.59 (34.53 - 44.53)	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	
1Q17		1/16/2017	NE	37.20	NA	NA	NA	404.92		0.0	
2Q17		4/3/2017	NE	37.63	NA	NA	NA	404.49		0.0	
3Q17		7/5/2017	NE	36.67	NA	NA	NA	405.45		0.0	
ROST 4 PZ(G)											
4Q14	442.13	10/1/2014	NE	41.26	NA	NA	NA	400.87	407.85 - 397.85 (34.28 - 44.28)	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	
1Q17		1/16/2017	NE	37.57	NA	NA	NA	404.56		52.7	
2Q17		4/3/2017	NE	37.93	NA	NA	NA	404.20		0.4	
3Q17		7/5/2017	NE	36.77	NA	NA	NA	405.36		9.2	
S 1											
4Q14	443.79	10/2/2014	42.80	42.82	400.97	400.99	0.02	400.99	Unknown	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	
1Q17		1/16/2017	39.30	39.37	404.53	404.60	0.07	404.59		419.5	
2Q17		4/3/2017	39.35	39.41	404.49	404.55	0.06	404.54		356.0	
3Q17		7/6/2017	39.02	39.08	404.82	404.88	0.06	404.87		602.2	
T 1											
4Q14	445.40	10/2/2014	NE	43.94	NA	NA	NA	401.46	398.40 - 388.40 (47.00 - 57.00)	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	*
1Q17		1/16/2017	NE	40.05	NA	NA	NA	405.35		0.0	*
2Q17		4/3/2017	NE	40.51	NA	NA	NA	404.89		0.0	*
3Q17		7/5/2017	NE	39.11	NA	NA	NA	406.29		0.0	*
T 2											
4Q14	443.12	10/2/2014	NE	42.36	NA	NA	NA	400.76	392.63 - 372.48 (50.49 - 70.64)	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	*
1Q17		1/16/2017	NE	37.95	NA	NA	NA	405.26		0.0	*
2Q17		4/3/2017	NE	38.30	NA	NA	NA	404.91		0.0	*
3Q17		7/5/2017	NE	37.21	NA	NA	NA	406.00		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 3											
4Q14	450.91	10/2/2014	NE	51.58	NA	NA	NA	399.33	403.65 - 388.65 (47.26 - 62.26)	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	
1Q17		1/17/2017	NE	44.71	NA	NA	NA	404.32		0.0	*
2Q17		4/3/2017	NE	45.05	NA	NA	NA	403.98		0.0	*
3Q17		7/6/2017	NE	44.04	NA	NA	NA	404.99		0.0	*
T 4											
4Q14	447.95	10/2/2014	NE	49.63	NA	NA	NA	398.32	398.24 - 383.24 (49.71 - 64.71)	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	*
1Q17		1/17/2017	NE	42.50	NA	NA	NA	404.13		0.0	*
2Q17		4/4/2017	NE	42.98	NA	NA	NA	403.65		12.4	*
3Q17		7/6/2017	NE	41.92	NA	NA	NA	404.71		0.0	*
T 5											
4Q14	443.46	10/2/2014	NE	42.44	NA	NA	NA	401.02	395.13 - 378.58 (48.33 - 64.88)	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	*
1Q17		1/16/2017	NE	38.38	NA	NA	NA	405.09		2.6	*
2Q17		4/3/2017	NE	38.36	NA	NA	NA	405.11		0.0	*
3Q17		7/6/2017	NE	38.07	NA	NA	NA	405.40		9.4	*
T 6											
4Q14	446.55	10/3/2014	NE	45.18	NA	NA	NA	401.37	394.79 - 380.54 (51.76 - 66.01)	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	*
1Q17		1/16/2017	NE	42.50	NA	NA	NA	404.11		5.6	*
2Q17		4/3/2017	NE	42.71	NA	NA	NA	403.90		2.3	*
3Q17		7/5/2017	NE	41.60	NA	NA	NA	405.01		0.1	*
T 7											
4Q14	444.01	10/3/2014	NE	41.33	NA	NA	NA	402.68	395.29 - 380.29 (48.72 - 63.72)	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	*
1Q17		1/17/2017	NE	38.52	NA	NA	NA	405.52		2.5	*
2Q17		4/4/2017	NE	38.84	NA	NA	NA	405.20		0.8	*
3Q17		7/6/2017	NE	37.53	NA	NA	NA	406.51		0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

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 12											
4Q14	444.69	10/3/2014	NE	44.63	NA	NA	NA	400.06	397.97 - 371.97 (46.72 - 72.72)	2.7	*
1Q15		1/8/2015	NE	44.92	NA	NA	NA	399.88		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	444.80	4/4/2016	NE	43.10	NA	NA	NA	401.70	397.97 - 371.97 (46.83 - 72.83)	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	*
1Q17		1/16/2017	NE	40.70	NA	NA	NA	404.10		1.7	*
2Q17		4/3/2017	NE	40.86	NA	NA	NA	403.94		0.9	*
3Q17		7/5/2017	NE	40.06	NA	NA	NA	404.74		0.7	*
T 13											
4Q14	443.46	10/1/2014	NE	41.98	NA	NA	NA	401.48	396.46 - 370.46 (47.00 - 73.00)	0.0	*
1Q15		1/5/2015	NE	42.41	NA	NA	NA	401.55		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	443.96	4/4/2016	NE	40.04	NA	NA	NA	403.92	396.46 - 370.46 (47.50 - 73.50)	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	*
1Q17		1/16/2017	NE	38.06	NA	NA	NA	405.90		0.4	*
2Q17		4/3/2017	NE	38.50	NA	NA	NA	405.46		0.0	*
3Q17		7/5/2017	NE	37.10	NA	NA	NA	406.86		0.0	*
T 15											
4Q14	445.03	10/1/2014	NE	44.41	NA	NA	NA	400.62	396.99 - 370.99 (48.04 - 74.04)	0.0	*
1Q15		1/6/2015	NE	44.68	NA	NA	NA	400.46		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	445.14	4/4/2016	NE	42.13	NA	NA	NA	403.01	397.10 - 371.10 (48.04 - 74.04)	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	*
1Q17		1/16/2017	NE	39.71	NA	NA	NA	405.43		0.0	*
2Q17		4/3/2017	NE	40.08	NA	NA	NA	405.06		0.0	*
3Q17		7/6/2017	NE	38.98	NA	NA	NA	406.16		0.0	*
T 17											
4Q14	445.90	10/1/2014	NE	44.00	NA	NA	NA	401.90	401.80 - 375.80 (44.10 - 70.10)	0.0	*
1Q15		1/6/2015	NE	43.75	NA	NA	NA	402.26		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	446.01	4/4/2016	NE	40.37	NA	NA	NA	405.64	401.91 - 375.91 (44.10 - 70.10)	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	*
1Q17		1/16/2017	NE	38.11	NA	NA	NA	407.90		0.0	*
2Q17		4/3/2017	NE	38.42	NA	NA	NA	407.59		0.0	*
3Q17		7/6/2017	NE	36.63	NA	NA	NA	409.38		2.6	*
T 19											
4Q14	446.71	10/2/2014	NE	48.28	NA	NA	NA	398.43	395.94 - 369.94 (50.77 - 76.77)	20.1	*
1Q15		1/9/2015	NE	47.58	NA	NA	NA	399.21		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	446.79	4/4/2016	NE	44.80	NA	NA	NA	401.99	396.02 - 370.02 (50.77 - 76.77)	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	*
1Q17		1/17/2017	NE	42.63	NA	NA	NA	404.16		3.1	*
2Q17		4/4/2017	NE	43.04	NA	NA	NA	403.75		18.5	*
3Q17		7/6/2017	NE	42.15	NA	NA	NA	404.64		92.6	*

SEE LAST PAGE OF TABLE FOR NOTES

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 21											
4Q14	444.00	10/3/2014	NE	34.47	NA	NA	NA	409.53	412.04 - 386.04 (31.96 - 57.96)	0.1	
1Q15		1/9/2015	NE	34.26	NA	NA	NA	409.73		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	443.99	4/5/2016	NE	31.70	NA	NA	NA	412.29	412.03 - 386.03 (31.96 - 57.96)	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	*
1Q17		1/17/2017	NE	29.97	NA	NA	NA	414.02		0.0	*
2Q17		4/4/2017	NE	30.65	NA	NA	NA	413.34		0.0	*
3Q17		7/6/2017	NE	28.80	NA	NA	NA	415.19		0.0	*
T 22											
4Q14	442.21	10/3/2014	NE	35.19	NA	NA	NA	407.02	410.66 - 384.96 (31.55 - 57.25)	0.1	
1Q15		1/9/2015	NE	35.29	NA	NA	NA	406.90		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	442.19	4/5/2016	NE	33.11	NA	NA	NA	409.08	410.64 - 384.94 (31.55 - 57.25)	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	*
1Q17		1/17/2017	NE	31.82	NA	NA	NA	410.37		0.0	
2Q17		4/4/2017	NE	32.43	NA	NA	NA	409.76		0.0	
3Q17		7/6/2017	NE	30.35	NA	NA	NA	411.84		0.0	*
T 23											
4Q14	432.64	10/2/2014	NE	27.29	NA	NA	NA	405.35	405.41 - 379.41 (27.23 - 53.23)	0.0	
1Q15		1/8/2015	NE	28.04	NA	NA	NA	404.65		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	432.69	4/5/2016	NE	26.00	NA	NA	NA	406.69	405.46 - 379.46 (27.23 - 53.23)	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	*
1Q17		1/16/2017	NE	24.61	NA	NA	NA	408.08		0.0	*
2Q17		4/4/2017	NM	NM	NA	NA	NA	NA		NM	
3Q17		7/6/2017	NE	23.15	NA	NA	NA	409.54		0.0	*
T 24											
4Q14	443.72	10/3/2014	43.12	44.01	399.71	400.60	0.89	400.42	402.22 - 376.57 (41.50 - 67.15)	1.6	
1Q15		1/9/2015	43.75	45.39	398.42	400.06	1.64	399.73		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	443.81	4/5/2016	41.61	42.16	401.65	402.20	0.55	402.09	402.31 - 376.66 (41.50 - 67.15)	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	*
1Q17		1/16/2017	NE	39.11	NA	NA	NA	404.70		9.0	*
2Q17		4/3/2017	39.41	39.97	403.84	404.40	0.56	404.29		0.0	*
3Q17		7/5/2017	38.53	38.65	405.16	405.28	0.12	405.26		1.6	*
T 28											
4Q14	444.22	10/1/2014	NE	43.60	NA	NA	NA	400.62		0.0	
1Q15		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	444.43	4/4/2016	NE	40.39	NA	NA	NA	404.04	Unknown	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	
1Q17		1/16/2017	NE	38.05	NA	NA	NA	406.38		0.0	
2Q17		4/3/2017	NE	38.42	NA	NA	NA	406.01		0.0	
3Q17		7/6/2017	NE	36.85	NA	NA	NA	407.58		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

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 37											
4Q14	447.15	10/2/2014	NE	44.03	NA	NA	NA	403.12	398.30 - 378.30 (48.85 - 68.85)	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	*
1Q17		1/17/2017	NE	38.58	NA	NA	NA	408.67		0.0	*
2Q17		4/4/2017	NE	39.15	NA	NA	NA	408.10		0.5	*
3Q17		7/6/2017	NE	37.34	NA	NA	NA	409.91		0.0	*
T 38											
4Q14	445.62	10/2/2014	NE	40.96	NA	NA	NA	404.66	396.48 - 376.48 (49.14 - 69.14)	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	*
1Q17		1/17/2017	NE	35.86	NA	NA	NA	409.81		0.0	*
2Q17		4/4/2017	NE	36.49	NA	NA	NA	409.18		0.0	*
3Q17		7/6/2017	NE	34.15	NA	NA	NA	411.52		0.0	*
T 62											
4Q14	431.73	10/3/2014	NE	28.62	NA	NA	NA	403.11	412.02 - 382.02 (19.71 - 49.71)	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	
1Q17		1/17/2017	NE	26.70	NA	NA	NA	405.29		0.0	
2Q17		4/5/2017	NE	27.25	NA	NA	NA	404.74		0.0	
3Q17		7/6/2017	NE	24.51	NA	NA	NA	407.48		0.5	
T 63											
4Q14	431.24	10/3/2014	NE	28.11	NA	NA	NA	403.13	411.26 - 381.26 (19.98 - 49.98)	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	
1Q17		1/17/2017	NE	26.49	NA	NA	NA	404.94		0.0	
2Q17		4/5/2017	NE	27.02	NA	NA	NA	404.41		0.0	
3Q17		7/6/2017	NE	23.88	NA	NA	NA	407.55		0.0	
T 64											
4Q14	428.80	10/3/2014	NE	25.81	NA	NA	NA	402.99	408.99 - 378.99 (19.81 - 49.81)	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	
1Q17		1/17/2017	NE	24.91	NA	NA	NA	404.02		0.0	
2Q17		4/5/2017	NE	25.13	NA	NA	NA	403.80		0.0	
3Q17		7/6/2017	NE	21.57	NA	NA	NA	407.36		0.0	

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.

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.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1b
3Q17 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	7/31/2017	NE	37.44	NA	NA	NA	405.21	393.85 - 383.85 (48.80 - 58.80)	0.0	*
MW-02											
Monthly	443.77	7/31/2017	NE	38.78	NA	NA	NA	404.99	393.90 - 383.90 (49.87 - 59.87)	394.1	*
MW-03											
Monthly	430.08	8/1/2017	NM	NM	NA	NA	NA	NA	395.41 - 385.41 (34.67 - 44.67)	NM	Unsafe condition at well - Unable to access
MW-04											
Monthly	441.14	7/31/2017	NE	35.87	NA	NA	NA	405.27	396.08 - 386.08 (45.06 - 55.06)	0.0	*
MW-05											
Monthly	429.80	7/31/2017	NE	24.23	NA	NA	NA	405.57	395.83 - 385.83 (33.97 - 43.97)	0.0	*
MW-06A											
Monthly	432.14	8/1/2017	NE	26.34	NA	NA	NA	405.80	397.31 - 387.31 (34.83 - 44.83)	0.1	*
MW-06B											
Monthly	432.29	8/1/2017	NE	26.38	NA	NA	NA	405.91	368.24 - 363.24 (64.05 - 69.05)	0.0	*
MW-06C											
Monthly	432.11	8/1/2017	NE	26.17	NA	NA	NA	405.94	347.16 - 342.16 (84.95 - 89.95)	0.0	*
MW-06D											
Monthly	431.99	8/1/2017	NE	26.05	NA	NA	NA	405.94	327.27 - 322.27 (104.72 - 109.72)	0.0	*
MW-07											
Monthly	443.10	7/31/2017	NE	37.97	NA	NA	NA	405.13	400.18 - 390.18 (42.92 - 52.92)	1417.0	*
MW-08											
Monthly	434.11	7/31/2017	NE	28.80	NA	NA	NA	405.31	400.51 - 390.51 (33.60 - 43.60)	11572.0	*
MW-09											
Monthly	445.20	8/1/2017	NE	38.82	NA	NA	NA	406.38	398.75 - 388.75 (46.45 - 56.45)	0.0	*
MW-10											
Monthly	445.03	8/1/2017	NE	38.85	NA	NA	NA	406.18	400.60 - 390.60 (44.43 - 54.43)	0.0	*
MW-11											
Monthly	442.33	8/1/2017	NE	36.60	NA	NA	NA	405.73	400.67 - 390.67 (41.66 - 51.66)	0.0	*
MW-12											
Monthly	442.60	7/31/2017	NE	37.06	NA	NA	NA	405.54	400.68 - 390.68 (41.92 - 51.92)	0.0	*
MW-14											
Monthly	434.44	7/31/2017	NE	29.51	NA	NA	NA	404.93	401.02 - 391.02 (33.42 - 43.42)	169.0	*
MW-16											
Monthly	443.39	7/31/2017	NE	38.35	NA	NA	NA	405.04	406.33 - 396.33 (37.06 - 47.06)	0.0	
MW-17											
Monthly	441.57	8/1/2017	NE	36.74	NA	NA	NA	404.83	407.28 - 392.28 (34.29 - 49.29)	0.0	
MW-18											
Monthly	442.04	8/1/2017	NE	37.43	NA	NA	NA	404.61	407.12 - 392.12 (34.92 - 49.92)	0.0	
MW-19											
Weekly	442.77	7/11/2017	NE	37.94	NA	NA	NA	404.83	406.43 - 391.43 (36.34 - 51.34)	0.0	
		7/17/2017	NE	37.86	NA	NA	NA	404.91		0.0	
		7/25/2017	NE	37.96	NA	NA	NA	404.81		0.1	
Monthly		7/31/2017	NE	37.98	NA	NA	NA	404.79		0.0	
Weekly		8/7/2017	NE	37.96	NA	NA	NA	404.81		0.0	
MW-20											
Monthly	443.67	7/31/2017	NE	38.80	NA	NA	NA	404.87	407.79 - 392.79 (35.88 - 50.88)	0.0	
MW-21											
Monthly	443.81	7/31/2017	NE	38.86	NA	NA	NA	404.95	408.80 - 393.80 (35.01 - 50.01)	0.0	
MW-22											
Weekly	442.16	7/11/2017	NE	36.90	NA	NA	NA	405.26	404.28 - 394.28 (37.88 - 47.88)	2.1	*
		7/17/2017	NE	36.84	NA	NA	NA	405.32		2.1	*
		7/25/2017	NE	36.95	NA	NA	NA	405.21		0.0	*
Monthly		8/1/2017	NE	36.97	NA	NA	NA	405.19		2.6	*
Weekly		8/7/2017	NE	36.96	NA	NA	NA	405.20		0.3	*
MW-23											
Monthly	431.41	8/1/2017	NE	26.41	NA	NA	NA	405.00	402.39 - 392.39 (29.02 - 39.02)	0.0	*
MW-24											
Monthly	443.42	8/1/2017	NE	37.89	NA	NA	NA	405.53	404.53 - 394.53 (38.89 - 48.89)	0.8	*
MW-25											
Monthly	438.35	7/31/2017	NE	33.01	NA	NA	NA	405.34	402.76 - 392.76 (35.59 - 45.59)	104.2	*
MW-26											
Monthly	441.02	7/31/2017	NE	35.82	NA	NA	NA	405.20	402.87 - 392.87 (38.15 - 48.15)	0.0	*

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1b
3Q17 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-27											
Monthly	443.40	8/1/2017	NE	36.67	NA	NA	NA	406.73	403.61 - 393.61 (39.79 - 49.79)	0.0	*
MW-28											
Monthly	443.34	8/1/2017	NM	NM	NA	NA	NA	NA	409.73 - 399.73 (33.61 - 43.61)	NM	Unsafe condition at well - Unable to access
P-54											
Monthly	442.32	8/1/2017	NE	36.53	NA	NA	NA	405.79	404.32 - 379.32 (38.00 - 63.00)	7.2	*
P-55R											
Weekly	443.79	7/11/2017	38.11	38.20	405.59	405.68	0.09	405.66	403.36 - 393.36 (40.43 - 50.43)	236.5	*
		7/17/2017	37.82	38.02	405.77	405.97	0.20	405.93		399.2	*
		7/25/2017	37.92	38.00	405.79	405.87	0.08	405.85		283.6	*
Monthly		7/31/2017	38.18	38.27	405.52	405.61	0.09	405.59		460.1	*
Weekly		8/7/2017	37.90	38.12	405.67	405.89	0.22	405.85		159.5	*
P-56											
Monthly	446.14	7/31/2017	NE	41.35	NA	NA	NA	404.79	405.32 - 380.32 (40.82 - 65.82)	0.0	
P-57											
Monthly	446.96	7/31/2017	NE	42.11	NA	NA	NA	404.85	402.77 - 392.77 (44.19 - 54.19)	411.4	*
P-58											
Monthly	444.94	7/31/2017	40.02	40.04	404.90	404.92	0.02	404.92	404.73 - 379.73 (40.21 - 65.21)	865.5	*
P-59											
Monthly	446.86	7/31/2017	NE	42.22	NA	NA	NA	404.64	398.95 - 373.95 (47.91 - 72.91)	583.6	*
P-60											
Weekly	446.69	7/11/2017	41.51	41.54	405.15	405.18	0.03	405.17	403.24 - 383.24 (43.45 - 63.45)	85.9	*
		7/17/2017	41.45	41.49	405.20	405.24	0.04	405.23		89.6	*
		7/25/2017	41.49	41.52	405.17	405.20	0.03	405.19		51.4	*
Monthly		7/31/2017	41.55	41.58	405.11	405.14	0.03	405.13		166.5	*
Weekly		8/7/2017	41.47	41.50	405.19	405.22	0.03	405.21		97.7	*
P-60-11											
Monthly	446.26	7/31/2017	NE	40.55	NA	NA	NA	405.71	413.11 - 383.11 (33.15 - 63.15)	0.0	
P-60-12											
Monthly	443.43	7/31/2017	NE	38.32	NA	NA	NA	405.11	383.43 - 373.43 (60.00 - 70.00)	49.6	*
P-60-13											
Monthly	442.92	7/31/2017	NE	37.61	NA	NA	NA	405.31	402.92 - 382.92 (40.00 - 60.00)	0.5	*
P-60-S											
Monthly	446.84	7/31/2017	NE	41.30	NA	NA	NA	405.54	410.36 - 395.36 (36.48 - 51.48)	0.9	
P-66											
Monthly	436.81	7/31/2017	NE	31.55	NA	NA	NA	405.26	402.09 - 377.09 (34.72 - 59.72)	188.8	*
P-68											
Weekly	445.18	7/11/2017	40.17	40.21	404.97	405.01	0.04	405.00	399.92 - 374.92 (45.26 - 70.26)	274.7	*
		7/17/2017	40.12	40.16	405.02	405.06	0.04	405.05		248.6	*
		7/25/2017	40.15	40.19	404.99	405.03	0.04	405.02		206.8	*
Monthly		7/31/2017	40.25	40.26	404.92	404.93	0.01	404.93		324.6	*
Weekly		8/7/2017	40.10	40.14	405.04	405.08	0.04	405.07		132.0	*
P-74											
Monthly	442.72	7/31/2017	NE	38.20	NA	NA	NA	404.52	398.29 - 373.29 (44.43 - 69.43)	0.0	*
P-93A											
Monthly	445.12	7/31/2017	NE	40.30	NA	NA	NA	404.82	402.05 - 392.05 (43.07 - 53.07)	9.6	*
P-93B											
Monthly	446.52	7/31/2017	NE	41.66	NA	NA	NA	404.86	371.92 - 369.92 (74.60 - 76.60)	0.0	*
P-93C											
Monthly	446.28	7/31/2017	NE	41.46	NA	NA	NA	404.82	353.81 - 348.81 (92.47 - 97.47)	0.0	*
P-93D											
Monthly	446.73	7/31/2017	NE	41.86	NA	NA	NA	404.87	320.98 - 318.98 (125.75 - 127.75)	0.0	*
ROST-3-MW											
Weekly	442.29	7/11/2017	NE	36.75	NA	NA	NA	405.54	404.48 - 394.48 (37.81 - 47.81)	183.3	*
		7/17/2017	NE	36.64	NA	NA	NA	405.65		56.2	*
		7/25/2017	NE	36.70	NA	NA	NA	405.59		65.0	*
Monthly		8/1/2017	NE	36.67	NA	NA	NA	405.62		163.7	*
Weekly		8/7/2017	NE	36.71	NA	NA	NA	405.58		292.3	*
ROST-4-PZ											
Weekly	442.13	7/11/2017	NE	36.49	NA	NA	NA	405.64	407.20 - 397.20 (34.93 - 44.93)	0.0	
		7/17/2017	NE	36.42	NA	NA	NA	405.71		0.0	
		7/25/2017	NE	36.37	NA	NA	NA	405.76		0.0	
Monthly		8/1/2017	NE	36.27	NA	NA	NA	405.86		0.0	
Weekly		8/7/2017	NE	36.30	NA	NA	NA	405.83		0.0	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1b
3Q17 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(A)											
Weekly	442.11	7/11/2017	NE	35.73	NA	NA	NA	406.38	407.34 - 397.34 (34.77 - 44.77)	0.0	
		7/17/2017	NE	35.44	NA	NA	NA	406.67		0.0	
		7/25/2017	NE	35.53	NA	NA	NA	406.58		0.2	
Monthly		8/1/2017	NE	35.45	NA	NA	NA	406.66		0.0	
Weekly		8/7/2017	NE	35.44	NA	NA	NA	406.67		0.0	
ROST-4-PZ(B)											
Weekly	442.38	7/11/2017	NE	36.43	NA	NA	NA	405.95	407.33 - 397.33 (35.05 - 45.05)	0.0	
		7/17/2017	NE	36.36	NA	NA	NA	406.02		0.0	
		7/25/2017	NE	36.29	NA	NA	NA	406.09		0.0	
Monthly		8/1/2017	NE	36.22	NA	NA	NA	406.16		0.0	
Weekly		8/7/2017	NE	36.21	NA	NA	NA	406.17		0.0	
ROST-4-PZ(C)											
Weekly	442.66	7/11/2017	NE	37.20	NA	NA	NA	405.46	407.71 - 397.71 (34.95 - 44.95)	0.0	
		7/17/2017	NE	37.19	NA	NA	NA	405.47		0.0	
		7/25/2017	NE	37.13	NA	NA	NA	405.53		0.0	
Monthly		8/1/2017	NE	37.08	NA	NA	NA	405.58		0.0	
Weekly		8/7/2017	NE	37.07	NA	NA	NA	405.59		0.0	
ROST-4-PZ(D)											
Weekly	442.98	7/11/2017	NE	37.13	NA	NA	NA	405.85	408.01 - 398.01 (34.97 - 44.97)	6.8	
		7/17/2017	NE	37.10	NA	NA	NA	405.88		0.0	
		7/25/2017	NE	37.03	NA	NA	NA	405.95		0.0	
Monthly		8/1/2017	NE	36.93	NA	NA	NA	406.05		0.0	
Weekly		8/7/2017	NE	36.98	NA	NA	NA	406.00		0.0	
ROST-4-PZ(E)											
Weekly	441.96	7/11/2017	NE	36.40	NA	NA	NA	405.56	407.21 - 397.21 (34.75 - 44.75)	0.0	
		7/17/2017	NE	36.36	NA	NA	NA	405.60		0.0	
		7/25/2017	NE	36.34	NA	NA	NA	405.62		0.0	
Monthly		8/1/2017	NE	36.28	NA	NA	NA	405.68		0.0	
Weekly		8/7/2017	NE	36.28	NA	NA	NA	405.68		0.0	
ROST-4-PZ(F)											
Weekly	442.12	7/11/2017	NE	36.60	NA	NA	NA	405.52	407.59 - 397.59 (34.53 - 44.53)	0.0	
		7/17/2017	NE	36.55	NA	NA	NA	405.57		0.0	
		7/25/2017	NE	36.53	NA	NA	NA	405.59		0.0	
Monthly		8/1/2017	NE	36.49	NA	NA	NA	405.63		0.0	
Weekly		8/7/2017	NE	36.49	NA	NA	NA	405.63		0.0	
ROST-4-PZ(G)											
Weekly	442.13	7/11/2017	NE	36.82	NA	NA	NA	405.31	407.85 - 397.85 (34.28 - 44.28)	0.0	
		7/17/2017	NE	36.76	NA	NA	NA	405.37		0.0	
		7/25/2017	NE	36.81	NA	NA	NA	405.32		0.2	
Monthly		8/1/2017	NE	36.81	NA	NA	NA	405.32		1.1	
Weekly		8/7/2017	NE	36.83	NA	NA	NA	405.30		0.0	
T-12											
Monthly	444.80	7/31/2017	NE	40.11	NA	NA	NA	404.69	397.97 - 371.97 (46.83 - 72.83)	3.2	*

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.

8) Monthly and weekly gauging activities were discontinued as of receipt of an IEPA approval letter dated August 2, 2017.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6.77	17.43	1.106	13.19	0 03	208	
2Q17	6 85	18 34	1.420	16.81	0 00	-73	
3Q17	6.76	20 98	1.472	14.42	0.11	-15	
MW-02							
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	
1Q17	7 09	18 30	1 294	14.73	0 03	-155	
2Q17	7.16	18.41	1 294	6 91	0 00	-195	
3Q17	7 03	21 53	1.717	33.97	0 00	-275	
MW-03							
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	
1Q17	6 85	17 98	1 049	49.63	0 02	-146	
2Q17	6 94	18.74	1 371	1 33	0 09	126	
3Q17	6 92	21 31	1 295	5.49	0 03	-143	
MW-04							
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	
1Q17	6 82	17 67	1 351	5 68	0 06	-115	
2Q17	6 87	18 33	1 362	4 35	0 06	4	
3Q17	6 88	20.41	1 281	8.49	0 00	-128	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6 87	15.78	0 807	6.10	0 07	-122	
2Q17	6 86	20 23	1.133	3 63	0 07	-153	
3Q17	6.78	21.17	1 076	12.94	0 02	-124	
MW-06A							
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	
1Q17	6 92	18 80	0 987	9.75	*	-94	
2Q17	6 81	20 33	1 013	3.18	0 02	179	
3Q17	6.72	21 82	1.167	45.38	0 01	-126	
MW-06B							
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	
1Q17	7.19	18.73	0.753	4.10	*	-91	
2Q17	7.16	19 83	0 852	0.78	0 05	174	
3Q17	7 05	20 84	0 943	5 09	0 09	-120	
MW-06C							
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	
1Q17	7.10	18 23	0 913	2 52	*	-105	
2Q17	7.12	18 60	0 983	0 30	0 07	166	
3Q17	7 00	20.44	1 076	10.73	0.10	-133	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6 94	17 80	1 078	12.57	*	-110	
2Q17	7.12	18 95	1 318	16.95	0 04	171	
3Q17	6 92	20.14	1 241	49.06	0 09	-139	
MW-07							
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	
1Q17	6.71	15.42	1.442	111.50	0 21	-83	
2Q17	6 68	18 26	1.454	3 28	0.13	38	
3Q17	6 59	21 25	1 553	9 56	0 06	-101	
MW-08							
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	
1Q17	6.74	18.78	1 635	11.08	0.12	-110	
2Q17	6 69	19 87	1 550	3 88	0 07	30	
3Q17	6 80	22 93	1 375	9 08	0 01	-105	
MW-09							
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	
1Q17	6 93	17 59	1 073	17.99	0 06	159	
2Q17	6.79	19 36	1.406	4 02	0 03	-65	
3Q17	6 68	19 35	1 517	20.76	0 02	-76	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	7 04	17 38	1 644	27.80	0 01	162	
2Q17	6 92	19.40	2 082	47.49	0 00	-76	
3Q17	6 94	21 89	1 994	25.53	0 07	-133	
MW-11							
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	
1Q17	6 82	16.45	1 204	6.15	0 07	16	
2Q17	6.77	17 67	1 561	1.19	0 05	-77	
3Q17	6.74	21.17	1 516	14.91	0.15	-116	
MW-12							
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	Replaced j-plug and lock.
4Q16	6 95	19.17	1 295	5 98	0 08	87	
1Q17	6.73	16 81	1 061	3 98	0.13	147	
2Q17	7.42	20.12	1 564	17.22	0 20	116	
3Q17	6 88	21 01	1 048	16.55	0 05	-59	
MW-13							
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	
1Q17	6.70	17.16	1.168	15.96	0 04	-125	
2Q17	6.74	20 84	1 389	2.78	0 00	-92	
3Q17	6.72	21.14	1.432	3.13	0.11	-146	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6.76	18.10	1 012	26.18	0.18	-89	
2Q17	6 82	20 68	1 650	0 00	0 04	-35	
3Q17	6.77	21 68	1 641	9 69	0 05	-73	
MW-16							
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	
1Q17	6.75	17 01	1.194	2 08	0 31	90	
2Q17	7.40	20 90	1.785	24.70	0.13	-58	
3Q17	6.77	22 58	1.475	86.56	0 27	-89	
MW-22							
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	
1Q17	7 03	19 09	1.183	3.78	0 02	162	
2Q17	6 91	20.47	1.193	2.48	0 06	-110	
3Q17	6 84	23.10	1.192	6 36	0 01	-83	
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	
1Q17	6 53	18 20	1.120	28.38	0 00	-50	
2Q17	6.42	17.76	1 260	45.01	0 02	177	
3Q17	7 31	20 08	1 062	63.73	0 00	-156	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6 98	17 09	1 324	5.77	0 26	17.09	
2Q17	7 00	18 97	1 611	7.19	0.16	34	
3Q17	6 83	21.41	1.491	88.10	0 05	-121	Field parameters are suspect.
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	
1Q17	6 80	17.70	1 211	8 81	0 08	-119	
2Q17	6 87	18 58	1 282	0 54	0 01	33	
3Q17	6 95	23.17	1 248	7.70	0.13	-134	
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	
1Q17	6.71	16.76	1 300	6 94	0.77	73	
2Q17	6 84	19 89	1 967	5 21	0.11	156	
3Q17	6.76	20.73	1 594	8.43	0 09	-41	
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	
1Q17	7 01	15 97	0 812	17.30	0 34	349	
2Q17	6 93	18.70	1 021	1 65	0.79	-12	
3Q17	6 93	21 63	0 912	45.15	1 88	12	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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-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	
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	
1Q17	6.75	16 85	1.405	24.28	0 06	180	
2Q17	6.74	17 54	1 659	13.10	0 08	-44	
3Q17	6 65	21 61	1.783	41.11	0 05	-75	
P-54							
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	
1Q17	6 87	16 33	0 958	10.33	2.70	167	
2Q17	6 86	17.13	1 332	9.18	2 51	191	
3Q17	6.71	21.77	1 359	21.24	0 68	35	
P-55R							
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.
1Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-56							
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	
1Q17	7 02	18.76	1 819	13.42	0 00	-136	
2Q17	7 08	20 62	1 645	10.39	0 00	-80	
3Q17	7.12	29 55	1 228	35.04	0 00	-165	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	6 87	20.19	1 513	3.72	0.12	-129	
2Q17	6 86	2.38	1.480	0 98	0 03	-96	
3Q17	6 81	24 96	1 077	6 33	0 00	-137	
P-58							
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	
1Q17	6.72	21 85	2 345	28.06	0 00	-111	
2Q17	6 69	22.16	2.443	4.71	0 04	61	
3Q17	6.79	24.77	2 202	10.11	0 00	-123	
P-59							
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	
1Q17	6 60	23 06	1 837	6 23	0.10	-125	
2Q17	6 68	24 94	1 394	1 02	0 07	-78	
3Q17	6 59	28 96	1 588	10.14	0 00	-127	
P-66							
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 64	21.18	1.419	13.50	0 02	-111	
1Q17	6 65	20 64	1.191	13.13	0 08	-102	
2Q17	6 67	22.11	1.185	8.79	0 00	-69	
3Q17	6 55	25 65	1 269	24.34	0 07	-109	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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-68							
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.
1Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q17	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-74							
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	
1Q17	6 62	14.73	0 232	4 84	0 25	-38	
2Q17	7 85	19 80	1 536	1 89	8 06	35	
3Q17	7.15	25.12	0.142	3 38	0.10	-107	
P-93A							
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	
1Q17	6.77	17 21	1 521	18.27	0 20	68	
2Q17	6 84	20 26	1.177	1 56	0.12	83	
3Q17	7 02	25.19	1 049	15.32	0.12	-14	
P-93B							
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	
1Q17	6 80	17.46	1 337	18.77	0 20	-121	
2Q17	6 85	17 81	1.171	8 61	4 05	-52	
3Q17	6.77	22 27	1 323	0 05	0 00	-125	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF 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							
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	
1Q17	7 04	18 32	1 309	30.61	0.12	-91	
2Q17	6 96	18 36	1.104	0.43	0 00	-49	
3Q17	6 97	22.42	0 948	15.98	0.16	-87	
P-93D							
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	
1Q17	6 51	15.16	1.447	15.58	4.10	-77	
2Q17	7 09	17 80	1.192	0.77	0.17	-50	
3Q17	7.12	19 92	1 278	1.49	0 00	-166	
P-114R (P-114)							
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	19 52	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	
1Q17	6 80	16 52	0 803	29.92	0 22	-76	
2Q17	6 85	21 22	0 907	32.88	0 00	-113	
3Q17	6.48	22.74	0 651	38.57	0 00	-94	
ROST-3-MW							
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	
1Q17	6 82	17 39	1 354	12.89	0 05	48	
2Q17	6 86	18.77	1 538	0 88	0 00	-299	
3Q17	6 89	19 81	1 614	16.13	0 04	-123	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
ROST-4-PZ(C)							
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	
1Q17	7 38	16.15	1 351	12.10	0.15	68	
2Q17	7 30	17 89	1.492	4 89	0 09	-134	
3Q17	7 24	20 56	1.460	23.29	0 01	-178	
T-12							
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	
1Q17	6 90	20.47	1 213	4 88	0.11	-125	
2Q17	6 98	21 85	1 096	4.41	0.12	-98	
3Q17	6 86	25 07	1 243	6 64	0 00	-151	

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
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-01	MW1-ROX-100614	10/6/2014	48 8 - 58 8	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW1-ROX-101316	10/13/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW-1-ROX-011217	1/12/2017		38 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 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW1-ROX-041717	4/17/2017		38 58	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW1-ROX-071117	7/11/2017	48 8 - 58 8	37 24	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
MW-02	MW2-ROX-101014	10/10/2014	49.87 - 59 87	42.49	NE	<0.02 UJ	0.0132	<0 01	<0.01	0.0145	0.0057 J	0.0011 J	<0 01 UJ	<0.002 UJ	<0.004	<0.002	<0 004	0.0063 J	<0 000014	<0.000014	<0.002	<0.002	<0.002	<0 002	<0.004	<0.004	<0.05
	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	<0.000015	0.0008 J	0 00084 J	0.00099 J	<0 001	<0.002	<0.002	<0 025
	MW2-ROX-041315	4/13/2015		45 56	NE	<0.01	0.0283	<0.005	<0.005	<0 005	0.0052 J	0.00084 J J	0.00028 J	<0 001	<0.002	<0.001	<0 002	0 0064	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000027	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	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	<0.000019	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	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	<0.00002	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	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	<0.000031 UJ	<0 000021 UJ	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	MW2-ROX101316	10/13/2016		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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	MW2-ROX-011217	1/12/2017		39 58	NE	<0.025	0 016	<0.001	<0.025	<0.001	0.0059	<0.001	0.0039	<0 001	<0.001	<0.001	<0 001	0.007	<0 000031	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW2-ROX-041717	4/17/2017		39 69	NE	<0.13	0.0062	<0.005	0.026 J	0.0088	0.0055	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	0.006	<0 000031	<0.000021	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	MW2-ROX-071217	7/12/2017	49.87 - 59 87	38 66	NE	<0.025	0.0092	<0.001	0.0093 J	0.0062	0.0055	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	0 0062	<0.00003	<0.00002	<0 001	<0.001	<0.001	0.00085 J	<0.005	<0.001	<0.0097
MW-03	MW3-ROX-100914	10/9/2014	34.67 - 44 67	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	MW3-ROX-041015	4/10/2015		31.16	NE	<0.01 UJ	<0.0005	<0.005	<0 005 UJ	<0.005	<0 005	<0 005 UJ	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0 001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW3-ROX100716	10/7/2016		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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW3-ROX-010617	1/6/2017		25 65	NE	0.015 J	0.0011	<0.001	<0.025	0.00078 J	0.0016	0 0013	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW3-ROX-041117	4/11/2017		26.13	NE	0.023 J	0 0004 J	<0.001	<0.025	<0.001	<0 001	0 00073 J	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.000031 UJ	<0.00002 UJ	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	MW3-ROX-071217	7/12/2017	34.67 - 44 67	24 25	NE	<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 000029	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-04	MW4-ROX-101614	10/16/2014	46.06 - 56 06	39.49	NE	<0.05	0 815	<0.025	<0 025 UJ	<0.025	<0 025	<0.025	<0.025	<0 005	<0 01	<0.005	<0.01	<0.025	<0 000014	<0.000014	<0.005	<0.005	<0.005	<0 005	<0 01	<0.01	<0.13
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW4-ROX-100616	10/6/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW4-ROX-010917	1/9/2017		36 84	NE	<0.025	0.00039 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	MW4-ROX-041017	4/10/2017		37 08	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	0.0014 J
	MW4-ROX-071017	7/10/2017	45.06 - 55 06	35 68	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
MW-05	MW-5-ROX-100914	10/9/2014	33.97 - 43 97	27.75	NE	<0.01 UJ	0 028	<0.005	<0.005	<0 005	0.00083 J	0.0049 J	<0.005 UJ	<0.001 UJ	<0.002	<0.001	<0 002	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	MW5-ROX-041315	4/13/2015		30 97	NE	<0.01	0.0391	<0.005	<0.005	<0.005	0 0014 J J	0.0051 J	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW5-ROX-101016	10/10/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	0.0015 J
	MW5-ROX-010617	1/6/2017		25 33	NE	<0.025	0.0011	<0.001	<0.025	<0.001	0.0013	0 0034	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW5-ROX-041217	4/12/2017		25 69	NE	<0.025	0.00049 J	<0.001	<0.025	<0.001	<0.001	0 0012	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
	MW5-ROX-071217	7/12/2017	33.97 - 43 97	23 96	NE	<0.025	0.0038	<0.001	<0.025	<0 001	<0.001	0 0024	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
MW-06A	MW6A-ROX-100814	10/8/2014	34.83 - 44 83	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW6A-ROX-101116	10/11/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	MW6A-ROX-011017	1/10/2017		27.43	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW6A-ROX-041217	4/12/2017		27 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 000031	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
	MW6A-ROX-071117	7/11/2017	34.83 - 44 83	26.16	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-06B	MW6B-ROX-100814	10/8/2014	64.05 - 69 05	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000022	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW6B-ROX-101116	10/11/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	MW6B-ROX-011017	1/10/2017		27.49	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	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW6B-ROX-041217	4/12/2017		27.75	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW6B-ROX-071117	7/11/2017	64.05 - 69 05	26.18	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
MW-06C	MW6C-ROX-100814	10/8/2014	84.95 - 89 95	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	MW6C-ROX-040915	4/9/2015		32 80	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0 005	<0.005	<0.005	<0.005 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0 0095 UJ
	MW6C-ROX-011017	1/10/2017		27 26	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0093
	MW6C-ROX-041217	4/12/2017		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 000031	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW6C-ROX-071117	7/11/2017	84.95 - 89 95	25 99	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
MW-06D	MW6D-ROX-100814	10/8/2014	104.72 - 109.72	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000015	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	MW6D-ROX-011017	1/10/2017		27.14	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0093
	MW6D-ROX-011017-DUP	1/10/2017		27.14	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0093
	MW6D-ROX-041217	4/12/2017		27.43	NE	<0.025	0.0013	<0.001	<0.025	<0 001	<0.001	<0.001	<0 001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0096
	MW6D-ROX-041217-DUP	4/12/2017		27.43	NE	<0.025	0.00088 J	<0.001	<0.025	<0 001	<0.001	<0.001	<0 001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0095
	MW6D-ROX-071117	7/11/2017	104.72 - 109.72	25 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 000033	<0.000022	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
	MW6D-ROX-071117-DUP	7/11/2017	104.72 - 109.72	25 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-07	MW7-ROX-101614	10/16/2014	42.92 - 52 92	41 31	NE	<50	1130	<25	<25 UJ	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0 000014	<0.000014	<5	<5	<5	<5	<10	<10	<130
	MW7-ROX-101614-DUP	10/16/2014		41 31	NE	<50	984	<25	<25 UJ	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0 000014	<0.000014	<5	<5	<5	<5	<10	<10	<130
	MW7-ROX-012215	1/22/2015		43.45	NE	<10	821	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000014	<0.000014	<1	<1	<1	<1	<2	<2	<25
	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	<0.000015	<1	<1	<1	<1	<2	<2	<25
	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	<0.000014	<0.05	<0 05	<0.05	<0.05	<0.1	<0.1	<1 3 UJ
	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	<0.000014	<0.05	<0 05	<0.05	<0.05	<0.1	<0.1	<1 3 UJ
	MW7-ROX-071515	7/15/2015		43 54	NE	<50	1300	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0 000014	<0.000014	<5	<5	<5	<5	<5	<10	<130
	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	<0.000014	<5	<5	<5	<5	<5	<10	<130
	MW7-ROX-101915	10/19/2015		41.43	NE	<250	1000	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0 000029	<0.00002	<10	<10	<10	<10	<50	<10	<0.01
	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	<0.000019	<10	<10	<10	<10	<50	<10	<0.01
	MW7-ROX-011416	1/14/2016		41 02	NE	<130	740	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0 000029	<0.000019	<5	<5	<5	<5	<25	<5	<0.01
	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	<0.00002	<5	<5	<5	<5	<25	<5	<0.01
	MW7-ROX-041916	4/19/2016		40 68	NE	<50	1100	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0 000029	<0.000019	<2	<2	<2	<2	<10	<2	<0.01
	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	<0.00002	<2	<2	<2	<2	<10	<2	<0.01
	MW7-ROX-071416	7/14/2016		39 99	NE	<130	670	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0 000029	<0.00002	<5	<5	<5	<5	<25	<5	<0.01
	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	<0.000019	<5	<5	<5	<5	<25	<5	<0.01
	MW7-ROX-100616	10/6/2016		39 24	NE	<250	910	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.00003	<0.00002	<10	<10	<10	<10	<50	<10	<0.01
	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	<0.00002	<10	<10	<10	<10	<50	<10	<0.01
	MW7-ROX-010917	1/9/2017		38 90	NE	<130	950	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<0.00002	<5	<5	<5	<5	<25	<5	<0.01
	MW7-ROX-041017	4/10/2017		38 92	NE	<25	1000	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	0 00012 p J	0.000042 J	<1	<1	<1	<1	<5	<1	<0.0097
	MW7-ROX-041017-DUP	4/10/2017		38 92	NE	<25	1100	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	0 00012 p J	0.000052 J	<1	<1	<1	<1	<5	<1	<0.0097
	MW7 ROX-071117	7/11/2017	42.92 - 52 92	37.79	NE	<130	810	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<0.00002	<5	<5	<5	<5	<25	<5	<0.0097
	MW7 ROX-071117-DUP	7/11/2017	42.92 - 52 92	37.79	NE	<130	870	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<0.00002	<5	<5	<5	<5	<25	<5	<0.0097
MW-08	MW8-ROX-101614	10/16/2014	33 6 - 43 6	32 23	NE	<10	486	<5	<5 UJ	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000015	<0.000015	<1	<1	<1	<1	<2	<2	<25
	MW8-ROX-012215	1/22/2015		34 22	NE	<10	764	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000015	<0.000015	<1	<1	<1	<1	<2	<2	<25
	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	<0.000014	<0.05	<0 05	<0.05	<0.05	<0.1	<0.1	<1 3 UJ
	MW8-ROX-071515	7/15/2015		34 07	NE	<50	879	<25	<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<0 000014	<0.000014	<5	<5	<5	<5	<10	<10	<130
	MW8-ROX-101915	10/19/2015		32 30	NE	<130	580	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<0 00002	<5	<5	<5	<5	<25	<5	<0.01
	MW8-ROX-011416	1/14/2016		31.79	NE	<50	300	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<0 00002	<2	<2	<2	<2	<10	<2	<0.01
	MW8-ROX-041916	4/19/2016		31.45	NE	<25	480	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0 00002	<1	<1	<1	<1	<5	<1	<0.01
	MW8-ROX-071416	7/14/2016		30 80	NE	<50	310	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<0 00002	<2	<2	<2	<2	<10	<2	<0.01
	MW8-ROX-100616	10/6/2016		29 99	NE	<130	630	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.00003	<0 00002	<5	<5	<5	<5	<25	<5	<0.01
	MW8-ROX-010917	1/9/2017		29.79	NE	<63	410	<2.5	<63	<2 5	<2.5	<2.5	<2 5	<2.5	<2.5	<2 5	<2.5	<2.5	<0.00003	<0 00002	<2.5	<2.5	<2 5	<2.5	<13	<2 5	<0.0098
	MW8-ROX-041017	4/10/2017		30 02	NE	<25	830	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000031 UJ	<0 000021 UJ	<1	<1	<1	<1	<5	<1	<0.01
	MW8-ROX-071017	7/10/2017	33 6 - 43 6	28.48	NE	<25	870	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0 00002	<1	<1	<1	<1	<5	<1	<0.0096
MW-09	MW9-ROX-100714	10/7/2014	46.45 - 56.45	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	MW9-ROX-040915	4/9/2015		45 38	NE	<0.01 UJ	<0 0005	<0 005	<0.005	<0.005	<0 005	<0.005	<0 005 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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 00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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 00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW9-ROX-101316	10/13/2016		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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW9-ROX-011117	1/11/2017		40 06	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 00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW9-ROX-041417	4/14/2017		40 67	NE	<0.025	0.00068 J	<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 00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
	MW9-ROX-071217	7/12/2017	46.45 - 56.45	38 86	NE	<0.025	0.00076 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 00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-10	MW10-ROX-100714	10/7/2014	44.43 - 54.43	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW10-ROX-101216	10/12/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 011
	MW10-ROX-011117	1/11/2017		39 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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW10-ROX-041417	4/14/2017		40 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 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW10-ROX-071117	7/11/2017	44.43 - 54.43	38 86	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
MW-11	MW11-ROX-100714	10/7/2014	41.66 - 51 66	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW11-ROX-101216	10/12/2016		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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	MW11-ROX-011117	1/11/2017		37 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	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW11-ROX-041417	4/14/2017		38.17	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 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW11-ROX-071017	7/10/2017	41.66 - 51 66	36 39	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
MW-12	MW12-ROX-100614	10/6/2014	41.92 - 51 92	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	MW12-ROX-040615	4/6/2015		43.75	NE	0.0265 J	<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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW12-ROX-101116	10/11/2016		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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	MW12-ROX-010917	1/9/2017		38.11	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	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW12-ROX-041417	4/14/2017		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 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW-12-ROX-07072017	7/7/2017	41.92 - 51 92	36 84	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-13	MW13-ROX-101014	10/10/2014	25.57 - 35 57	27.48	NE	<0.01 UJ	0.00037 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0 001	<0.001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW13-ROX100716	10/7/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW13-ROX-010617	1/6/2017		25 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW13-ROX-041317	4/13/2017		25.75	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW13-ROX-070717	7/7/2017	25.57 - 35 57	23 64	NE	0.01 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
MW-14	MW14-ROX-101414	10/14/2014	33.42 - 43.42	31 65	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	0 00063 J	<0.005	<0.001 UJ	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0 001	<0.001	<0.002	<0.002	<0.025 UJ
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW14-ROX-101416	10/14/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 0095 UJ
	MW14-ROX-011117	1/11/2017		29 61	NE	<0.025	0.0019	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	MW14-ROX-041317	4/13/2017		29 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
	MW14-ROX-070717	7/7/2017	33.42 - 43.42	28 28	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	<0.00002 UJ	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
MW-16	MW16-ROX-100714	10/7/2014	37.06 - 47 06	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	MW16-ROX-040915	4/9/2015		44 87	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0.005	<0 005	<0.005	<0.005 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW16-ROX-101116	10/11/2016		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	<0.00002	<0.001	<0.001	<0 001	<0.001	<0.005	<0.001	<0 0099 UJ
	MW16-ROX-010917	1/9/2017		39.15	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 000031	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	MW16-ROX-041417	4/14/2017		39.45	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	MW16-ROX-071017	7/10/2017	37.06 - 47 06	38.16	NE	<0.025	0.00039 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
MW-22	MW22-ROX-101014	10/10/2014	37.88 - 47 88	41.43	NE	<0.1 UJ	1.62	<0 05	<0.05	0 0165 J	0.0066 J	0.0096 J	<0 05 UJ	<0.01 UJ	<0 02	<0.01	<0.02	0.0045 J	<0 000014	<0.000014	<0 01	<0.01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000015	<0.01	<0.01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.02	<0 02	<0.02	<0.02	<0 04	<0.04	<0.5
	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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	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	<0.00002	<0 025	<0.025	<0.025	<0 025	<0.13	<0.025	<0.01 UJ
	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	<0.00002	<0.025	<0.025	<0.025	<0 025	<0.13	<0.025	<0.01
	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	<0.00002	<0 005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	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	<0.00002	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	MW22-ROX-101716	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	<0.00002	<0 01	<0.01	<0.01	<0 01	<0 05	<0.01	<0.0098
	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	<0.00002	<0.01	<0 01	<0.01	<0.01	<0 05	<0.01	<0.0098
	MW22-ROX-011217	1/12/2017		37 80	NE	<0.062 U	0 039	<0.005	<0.13	<0 005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0 000031	<0.00002	<0.005	<0.005	<0 005	<0 005	<0.025	<0.005	<0.0093
	MW22-ROX-011217-DUP	1/12/2017		37 80	NE	0.065 J	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	<0.00002	<0.005	<0.005	<0 005	<0 005	<0.025	<0.005	<0.01
	MW22-ROX-041717	4/17/2017		38 24	NE	<0.25	0.13	<0 01	<0.25	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 000031	<0.00002	<0 01	<0.01	<0.01	<0 01	<0 05	<0.01	<0.0095
	MW22-ROX-041717-DUP	4/17/2017		38 24	NE	<0.25	0.14	<0 01	<0.25	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.00003	<0.00002	<0.01	<0 01	<0.01	<0 01	<0 05	<0.01	<0.0096
	MW22-ROX-071217	7/12/2017	37.88 - 47 88	36 83	NE	<0.05	0.0079	<0.002	<0.05	<0 002	<0.002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.00003	<0.00002	<0 002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	MW22-ROX-071217-DUP	7/12/2017	37.88 - 47 88	36 83	NE	<0.05	0.0068	<0.002	<0.05	<0 002	<0.002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.00003	<0.00002	<0 002	<0.002	<0.002	<0 002	<0 01	<0.002	<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	<0.000019	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.2
	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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	<0.000021	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	MW23-ROX-BP-100716	10/7/2016		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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0098
	MW23-ROX-011017	1/10/2017		26 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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0096
	MW23-ROX-041117	4/11/2017		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 000031	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.0098
	MW23-ROX-071017	7/10/2017	29.02 - 39 02	25.13	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	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
MW-24	MW24-ROX-100814	10/8/2014	38.89 - 48 89	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	<0.000014	<0.001	<0.001	<0 001	<0 001	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.01 UJ	<0.0005	<0.005	<0.005	<0 005	<0 005	<0.005	<0.005 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0 001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW24-ROX-101116	10/11/2016		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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	MW24-ROX-010917	1/9/2017		38 97	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
	MW24-ROX-041717	4/17/2017		39.42	NE	0.13	<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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
	MW-24-ROX-07072017	7/7/2017	38.89 - 48 89	37 68	NE	0.012 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
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 UJ	<10	<0 000014	<0.000014	<2	<2	<2	<2 UJ	<4	<4	<50
	MW25-ROX-012215	1/22/2015		38.45	NE	<2.5 UJ	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	<0.000014	<0.25	<0 25	<0.25	<0.25	<0.5	<0 5	<6.3
	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	<0.000014	<0.05	<0 05	<0.05	<0.05	<0.1	<0.1	<1 3 UJ
	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	<0.000014	<0.2	<0.2	<0 2	<0.2	<0.4	<0.4	<5
	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	<0.000021	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.01
	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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.01	<0.01	<0.01	<0.01	<0 05	<0.01	<0.01 UJ
	MW25-ROX-100616	10/6/2016		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	<0.00002	<0 002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	MW25-ROX-011117	1/11/2017		34 00	NE	<0.025	0.28	<0.001	<0.025	<0 001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	MW25-ROX-041117	4/11/2017		34 31	NE	<0.025	0.19	<0.001	<0.025	<0 001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW25-ROX-071017	7/10/2017	35.59 - 45 59	32.75	NE	0.014 J	0 056	<0.001	<0.025	<0 001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000029	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 0096 UJ
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 UJ	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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 UJ	<0 001	<0.002	<0.001	<0.002 UJ	<0.005	<0 000015	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW26-ROX-101016	10/10/2016		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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	MW26-ROX-010617	1/6/2017		36.74	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	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW26-ROX-041417	4/14/2017		36 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 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW-26-ROX-07072017	7/7/2017	38.15 - 48.15	35 61	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
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 UJ	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	MW27-ROX-041015	4/10/2015		43 22	NE	0.0027 J J	0.00035 J	<0.005	<0 005 UJ	<0.005	<0 005	<0 005 UJ	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW27-ROX-101216	10/12/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	MW27-ROX-011117	1/11/2017		38 05	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW27-ROX-041417	4/14/2017		38.72	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	MW27-ROX-071017	7/10/2017	39.79 - 49.79	37 23	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
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 UJ	0 00049 J	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	MW28-ROX-101316	10/13/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	MW28-ROX-011217	1/12/2017		37.14	NE	<0.025	0.14	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	MW28-ROX-041717	4/17/2017		38 05	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
	MW28-ROX-071217	7/12/2017	33.61 - 43 61	36.48	NE	<0.025	0.00067 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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
P-54	P54-ROX-100814	10/8/2014	38 - 63	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	P54-ROX-041015	4/10/2015		43 20	NE	<0.01 UJ	<0.0005	<0.005	<0 005 UJ	<0.005	<0 005	<0 005 UJ	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P54-ROX-101216	10/12/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	P54-ROX-010917	1/9/2017		37 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	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P54-ROX-041717	4/17/2017		38 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P54-ROX-071017	7/10/2017	38 - 63	36 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	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
P-56	P56-ROX-101314	10/13/2014	40.82 - 65 82	45 05	NE	<0.01 UJ	0.107	<0.005	<0.005	0.0062	0 004 J	0.0012 J	<0.005 UJ	<0.001 UJ	<0.002	<0.001	<0 002	0.0035 J	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	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	<0.00002	<0 005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	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	<0.00002	<0 002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	P56-ROX-101716	10/17/2016		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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P56-ROX-011217	1/12/2017		42 01	NE	<0.025	0 015	<0.001	<0.025	<0.001	0.0022	<0.001	0 0005 J	<0 001	<0.001	<0.001	<0 001	0 0017	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	P56-ROX-040617	4/6/2017		42.46	NE	<0.025	0 012	<0.001	0.0097 J	<0.001	0.0022	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	0 0016	<0.000031 UJ	<0.00002 UJ	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P56-ROX-071217	7/12/2017	40.82 - 65 82	41.11	NE	<0.025	0.0049	<0.001	0.019 J	<0 001	0.0011	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
P-57	P57-ROX-101414-DUP	10/14/2014	40.46 - 65.46	45 00	NE	<20 UJ	220	<10	<10	<10	<10	<10	<10 UJ	<2 UJ	<4	<2	<4	<10	<0 000014	<0.000014	<2	<2	<2	<2	<4	<4	<50
	P57-ROX-101414	10/14/2014		45 00	NE	<20 UJ	255	<10	<10	<10	<10	<10	<10 UJ	<2 UJ	<4	<2	<4	<10	<0 000014	<0.000014	<2	<2	<2	<2	<4	<4	<50
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47 52	NE	<5 UJ	107	<2.5	<2.5	<2 5	<2.5	<2.5	<2 5	<0.5	<1	<0 5	<1	<2.5	<0 000015	<0.000015	<0.5	<0.5	<0 5	<0.5	<1	<1	<13
	P57-ROX-042015	4/20/2015		48.73	NE	<0 5	134	<0 25	<0.25	<0.25	<0.25	<0 25	<0 25 UJ	<0.05	<0.1	<0.05	<0.1	<0 25	<0 000013	<0.000013	<0.05	<0 05	<0.05	<0.05	<0.1 UJ	<0.1	<1 3 UJ
	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	<0.000014	<1	<1	<1	<1	<2	<2	<25
	P57-ROX-101515	10/15/2015		45 56	NE	<25	140	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000029	<0.000019	<1	<1	<1	<1	<5	<1	<0.01
	P57-ROX-011216	1/12/2016		45 61	NE	<25	160	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000029	<0.000019	<1	<1	<1	<1	<5	<1	<0.01
	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	<0.000019	<0.25	<0 25	<0.25	<0.25	<1.3	<0.25	<0.01 UJ
	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	<0.000019	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.01
	P57-ROX-101816	10/18/2016		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	<0.000021	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.01
	P57-ROX-011617	1/16/2017		42 82	NE	<6 3	39	<0 25	<6 3	<0.25	<0.25	<0 25	<0.25	<0.25	<0 25	<0.25	<0.25	<0 25	<0.00003	<0.00002	<0.25	<0 25	<0.25	<0.25	<1.3	<0.25	<0.0098
	P57-ROX-040717	4/7/2017		43 05	NE	<5	45	<0.2	<5	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 00003 UJ	<0.00002 UJ	<0.2	<0.2	<0 2	<0.2	<1	<0 2	<0.0097 UJ
	P57-ROX-071317	7/13/2017	44.19 - 54.19	41 95	NE	<5	43	<0.2	<5	<0.2	<0.2	<0 2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0.00003	<0.00002	<0.2	<0.2	<0 2	<0.2	<1	<0 2	<0.0099
P-58	P58-ROX-101514	10/15/2014	40 214 - 65 214	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	<0.000014	<0.5	<0.5	<0 5	<0.5	<1	<1	<13
	P58-ROX-012315	1/23/2015		45 32	NE	<10	304	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000015	<0.000015	<1	<1	<1	<1	<2	<2	<25
	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 UJ	<0.01	<0 02	<0.01	<0.02	0.0051 J	<0 000016	<0.000016	<0 01	<0.01	<0.01	<0.01	<0.02 UJ	<0.02	<0.25 UJ
	P58-ROX-071415	7/14/2015		45 54	NE	<10	266	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000014	<0.000014	<1	<1	<1	<1	<2	<2	<25
	P58-ROX-101615	10/16/2015		43.45	NE	<50	430	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0 000029	<0.000019	<2	<2	<2	<2	<10	<2	<0.01
	P58-ROX-011316	1/13/2016		43.18	NE	<50	510	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0 000029	<0.00002	<2	<2	<2	<2	<10	<2	<0.01
	P58-ROX-041816	4/18/2016		42 68	NE	<25	440	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000028	<0.000019	<1	<1	<1	<1	<5	<1	<0 01 UJ
	P58-ROX-071516	7/15/2016		42 05	NE	<50	250	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.00003	<0.00002	<2	<2	<2	<2	<10	<2	<0.01
	P58-ROX-101816	10/18/2016		41 05	NE	<50	340	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0 000031	<0.00002	<2	<2	<2	<2	<10	<2	<0.0098
	P58-ROX-011617	1/16/2017		40.73	NE	<25	260	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0.00002	<1	<1	<1	<1	<5	<1	<0.0095
	P58-ROX-041117	4/11/2017		40.74	NE	<13	320	<0.5	<13	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0.000031 UJ	<0 000021 UJ	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.0095
	P58-ROX-071317	7/13/2017	40 214 - 65 214	39 88	NE	<25	130	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0.00002	<1	<1	<1	<1	<5	<1	<0 01 UJ
P-59	P59-ROX-101414	10/14/2014	47 911 - 72 911	46.18	NE	<0.01 UJ	12	<0 005	<0.005	0 0278 J	0.0097 J	0.0024 J J	<0 005 UJ	<0.001 UJ	<0.002	<0.001	<0 002	0 0043 J J	<0 000014	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.1	<0.1	<0.1	<0.1	<0.2	<0 2	<2.5
	P59-ROX-041615	4/16/2015		48 83	NE	<0.1 UJ	9.43	<0 05	<0.05 UJ	<0.05	<0.05	<0 05	<0.05	<0.01	<0 02	<0.01	<0.02	<0 05	<0 000014	<0.000014	<0.01	<0 01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000014	<0 025	<0.025	<0.025	<0 025	<0 05	<0.05	<0.63
	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	<0.000019	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0.01
	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	<0.000019	<0 025	<0.025	<0.025	<0 025	<0.13	<0.025	<0.01
	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	<0.000021	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01 UJ
	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	<0.00002	<0 025	<0.025	<0.025	<0 025	<0.13	<0.025	<0.01
	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	<0.000021	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0.0098
	P59-ROX-011617	1/16/2017		42 83	NE	<1 3	7.6	<0 05	<1 3	<0.05	<0.05	<0 05	<0.05	<0.05	<0 05	<0.05	<0.05	<0 05	<0 000031	<0.00002	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0.0099
	P59-ROX-040717	4/7/2017		43 31	NE	<1 3	7.6	<0 05	<1 3	<0.05	<0.05	<0 05	<0.05	<0.05	<0 05	<0.05	<0.05	<0 05	<0.000031 UJ	<0 000021 UJ	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0 0097 UJ
	P59-ROX-071317	7/13/2017	47 911 - 72 911	42.16	NE	<1 3	7.7	<0 05	<1 3	<0.05	<0 05	<0 05	<0.05	<0.05	<0 05	<0.05	<0.05	<0 05	<0 000032	<0.000021	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
	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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
P-66	P66-ROX-101414	10/14/2014	34.72 - 59.72	34.48	NE	<0.01 UJ	0.0212	<0.005	<0.005	0.0135	0.0173	0.0036 J	<0.005	<0.001 UJ	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 0095 UJ
	P66-ROX-011117	1/11/2017		32.41	NE	<0.025	0.0058	<0.001	<0.025	0.0057	0 01	0.004	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	P66-ROX-041317	4/13/2017		32.19	NE	0.012 J	0.00094 J	<0.001	<0.025	0.0054	0 01	0 0028	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.000031 UJ	<0.00002 UJ	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	P66-ROX-071217	7/12/2017	34.72 - 59.72	31 38	NE	<0.025	0.0052	<0.001	<0.025	0.0042	0.0081	0 0039	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
P-74	P74-ROX-101414	10/14/2014	44.427 - 69.427	41.48	NE	<0.01 UJ	0.00068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000019	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P74-ROX-101416	10/14/2016		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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 0095 UJ
	P74-ROX-011217	1/12/2017		38 64	NE	<0.025	0 077	<0.001	<0.025	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P74-ROX-040717	4/7/2017		38 92	NE	<0.025	0.00041 J	<0.001	<0.025	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	P74-ROX-071217	7/12/2017	44.427 - 69.427	38 08	NE	<0.025	0 022	<0.001	<0.025	<0 001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000029	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0099
P-93A	P93A-ROX-101514	10/15/2014	48.166 - 63.166	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	<0.000014	<0.5	<0.5	<0 5	<0.5	<1	<1	<13
	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	<0.000014	<0.5	<0.5	<0 5	<0.5	<1	<1	<13
	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	<0.000019 UJ	<0 000019 UJ	<0.001 UJ	<0 001 UJ	<0.001 UJ	<0.001 UJ	<0 005 UJ	<0.001 UJ	<0 2 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 UJ	<0 001	<0.002	<0.001	<0 002	0.0036 J	<0.000014	<0.000014	<0 001	<0.001	<0.001	<0 001	<0 002 UJ	<0.002	<0.025 UJ
	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	<0.000014	<0.1	<0.1	<0.1	<0.1	<0.2	<0 2	<2.5
	P93A-ROX-101515	10/15/2015		43 69	NE	<25	260	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0.00002	<1	<1	<1	<1	<5	<1	<0.01
	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	<0.000019	<1	<1	<1	<1	<5	<1	<0.01
	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	<0.00002	<2	<2	<2	<2	<10	<2	<0.01
	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	<0.000019	<2	<2	<2	<2	<10	<2	<0.01
	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	<0.000019	<0.25	<0 25	<0.25	<0.25	<1.3	<0.25	<0.01
	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	<0.00002	<0.25	<0 25	<0.25	<0.25	<1.3	<0.25	<0.01
	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	<0.00002	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.01
	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	<0.00002	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.01
	P93A-ROX-101816	10/18/2016		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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	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	<0.00002	<0.02	<0 02	<0.02	<0.02	<0.1	<0.02	<0.01
	P93A-ROX-011217	1/12/2017		41 04	NE	<0.13	0.51 J	<0.005	<0.13	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.00003	<0.00002	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.0098
	P93A-ROX-011217-DUP	1/12/2017		41 04	NE	<0.13	0.69 J	<0.005	<0.13	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.00003	<0.00002	<0.005	<0.005	<0.005	<0 005	<0.025	<0.005	<0 011
	P93A-ROX-040717	4/7/2017		41 26	NE	<0.05	0.72	<0.002	<0.05	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.00003	<0.00002	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0 0095 UJ
	P93A-ROX-040717-DUP	4/7/2017		41 26	NE	<0.05	0.68	<0.002	<0.05	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0 000031	<0.000021	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.011 UJ
	P93A-ROX-071317	7/13/2017	43.07 - 53 07	40.11	NE	<0.025	0 083	<0.001	<0.025	<0 001	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0 019

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
P-93B	P93B-ROX-101514	10/15/2014	74 6 - 76 6	45.15	NE	<5 UJ	241	<2.5	<2.5	<2 5	<2.5	<2.5	<2.5 UJ	<0.5	<1	<0 5	<1	<2.5	<0 000014	<0.000014	<0.5	<0.5	<0 5	<0.5	<1	<1	<13
	P93B-ROX-012315	1/23/2015		47 24	NE	<10	564	<5	<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000014	<0.000014	<1	<1	<1	<1	<2	<2	<25
	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	<0.000015	<1	<1	<1	<1	<2	<2	<25
	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	<0.000019	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<100
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.01 UJ	400	<0.005	<0 005 UJ	<0.005	<0.005	0.001 J	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<10 UJ	388	<5	<5 UJ	<5	<5	<5	<5	<1	<2	<1	<2	<5	<0 000014	<0.000014	<1	<1	<1	<1	<2	<2	<25
	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	<0.000014	<5	<5	<5	<5	<10	<10	<130 UJ
	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	<0.000014	<2	<2	<2	<2	<4	<4	<50 UJ
	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	<0.000021	<2.5	<2.5	<2 5	<2.5	<13	<2 5	<0.01
	P93B-ROX-011316	1/13/2016		44 96	NE	<25	280	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000029	<0.000019	<1	<1	<1	<1	<5	<1	<0.01
	P93B-ROX-041916	4/19/2016		44 54	NE	<25	240	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000029	<0.000019	<1	<1	<1	<1	<5	<1	<0.01
	P93B-ROX-071516	7/15/2016		43 65	NE	<25	100	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.00003	<0.00002	<1	<1	<1	<1	<5	<1	<0.01
	P93B-ROX-101816	10/18/2016		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	<0.00002	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.01
	P93B-ROX-011017	1/10/2017		42.41	NE	<13	87	<0.5	<13	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0.000031	<0.00002	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.01
	P93B-ROX-011017-DUP	1/10/2017		42.41	NE	<13	88	<0.5	<13	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0.000031	<0.00002	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.0098
	P93B-ROX-040617	4/6/2017		42 59	NE	<13	79	<0.5	<13	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0 5	<0.5	<0.5	<0 00003 UJ	<0.00002 UJ	<0.5	<0.5	<0 5	<0.5	<2.5	<0 5	<0.0095
	P93B-ROX-07117	7/11/2017	74 6 - 76 6	41 59	NE	<25	180	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000029	<0.00002	<1	<1	<1	<1	<5	<1	<0.0095
	P93B-ROX-07117-DUP	7/11/2017	74 6 - 76 6	41 59	NE	<25	180	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0 000033	<0.000022	<1	<1	<1	<1	<5	<1	<0.0096
P-93C	P93C-ROX-101514	10/15/2014	94 255 - 96 255	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000015	<0.1	<0.1	<0.1	<0.1	<0.2	<0 2	<2.5
	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	<0.000019	<1	<1	<1	<1	<5	<1	<200
	P93C-ROX-041615	4/16/2015		48 22	NE	<1 UJ	55 3	<0.5	<0.5 UJ	<0 5	<0.5	<0.5	<0 5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000014	<0.000014	<0.1	<0.1	<0.1	<0.1	<0.2	<0 2	<2.5
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01 UJ
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P93C-ROX-101816	10/18/2016		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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	P93C-ROX-011117	1/11/2017		42 20	NE	<0.025	0.00095 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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	P93C-ROX-040517	4/5/2017		42.19	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 000031	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	P93C-ROX-071217	7/12/2017	92.47 - 97.47	41 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 000029	<0.000019	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
P-93D	P93D-ROX-101514	10/15/2014	125.75 - 127.75	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	<0.000014	<0.01	<0 01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000014	<0 001	<0.001	<0.001	<0 001	<0.002	0.0079	<0 025
	P93D-ROX-012315	1/23/2015		42 28	NE	<2.5 UJ	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	<0.000015	<0.25	<0 25	<0.25	<0.25	<0.5	<0 5	<6.3
	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	<0.000019	<2.5	<2.5	<2 5	<2.5	<13	<2 5	<500
	P93D-ROX-042015	4/20/2015		48 52	NE	<1	131	<0.5	<0.5	<0 5	<0.5	<0.5	<0.5 UJ	<0.1	<0.2	<0.1	<0.2	<0.5	<0.000014	<0.000014	<0.1	<0.1	<0.1	<0.1	<0 2 UJ	<0 2	<2 5 UJ
	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	<0.000014	<0.5	<0.5	<0 5	<0.5	<1	<1	<13 UJ
	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	<0.00002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.01
	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	<0.000022	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.01
	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	<0.000019	<0.05	<0 05	<0.05	<0.05	<0 25	<0.05	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P93D-ROX-101716	10/17/2016		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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	P93D-ROX-011017	1/10/2017		42 59	NE	<0.025	0.14	<0.001	<0.025	<0 001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0097
	P93D-ROX-040617	4/6/2017		42 80	NE	<0.025	0.07	<0.001	<0.025	<0 001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0 000031	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	0 001	<0.0095
	P93D-ROX-07117	7/11/2017	125.75 - 127.75	41 64	NE	<0.025	0 012	<0.001	<0.025	<0 001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
P-114	P114-ROX-101714	10/17/2014	32 672 - 52 672	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	<0.000014	<0.001	<0.001	<0.001	<0 001	0.0006 J J	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	P114-ROX-041715	4/17/2015		NM	NE	<0.01	<0.0005	<0.005	<0.005	<0.005	<0 005	<0.005	<0.005 UJ	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	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	<0.000014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.025 UJ
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.05
P-114R	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	P114R-ROX-010617	1/6/2017		24 81	NE	0.073	<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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P114R-ROX-041317	4/13/2017		25 05	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	P114R-ROX-071117	7/11/2017	23.01 - 33 01	22.45	NE	<0.025	0.00047 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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0096
ROST-3-MW	ROST3MW-ROX-100914	10/9/2014	37.81 - 47 81	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.0251 J	0.0057	<0.005	<0.005	<0.005	<0.005 UJ	<0 005 UJ	0.00037 J	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000021	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	ROST3MW-ROX-101316	10/13/2016		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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0098
	ROST3MW-ROX-011117	1/11/2017		37 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	<0.00003	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0093
	ROST3MW-ROX-041417	4/14/2017		38.16	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0095
	ROST3MW-ROX-071117	7/11/2017	37.81 - 47 81	36 61	NE	<0.025	0.00048 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	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
ROST-4-PZ(C)	ROST4PZC-ROX-100914	10/9/2014	34.95 - 44 95	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0.025 UJ
	ROST4PZC-ROX-041315	4/13/2015		43 00	NE	<0.01	0.0694	<0.005	<0.005	<0 005	<0.005 UJ	<0 005 UJ	<0.005	<0 001	<0.002	<0.001	<0 002	<0.005	<0 000014	<0.000014	<0.001	<0.001	<0.001	<0.001 UJ	<0.002	<0.002	<0 025
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.00002	<0 001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.01
	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	<0.000019	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	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	<0.000019	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	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	<0.000021	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.01
	ROST4PZC-ROX-101316	10/13/2016		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	<0.00002	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.0096
	ROST4PZC-ROX-011217	1/12/2017		37 88	NE	<0.025	0 021	<0.001	<0.025	<0 001	<0.001	<0.001	0.0012	<0 001	<0.001	<0.001	<0 001	<0.001	<0.00003	<0.00002	<0.001	<0.001	<0.001	<0 001	<0.005	<0.001	<0.0094
	ROST4PZC-ROX-041717	4/17/2017		38 24	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	<0.00003	<0.00002	<0.002	<0.002	<0.002	<0 002	<0 01	<0.002	<0.0097
	ROST4PZC-ROX-071217	7/12/2017	34.95 - 44 95	37 20	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	<0.00002	<0.001	<0.001	<0.001	0.00084 J	<0.005	<0.001	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**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-Dibromoethane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**	**Dichloromethane (Methylene chloride)**	**1,2-Dichloropropane**	**1,4-Dioxane**
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]	**0.00005** [1]	**0.6** [2]		**0.075** [2]	**0.005** [1]	**0.005** [2]	**0.005** [2]	**0.7** [1]
T-12	T12-ROX-101714	10/17/2014	46.718 - 72.718	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	<0.000014	<0 01	<0.01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000015	<0.01	<0 01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000014	<0.001	<0.001	<0.001	<0 001	<0.002	<0.002	<0 025
	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	<0.000014	<0.01	<0.01	<0.01	<0.01	<0 02	<0.02	<0.25
	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	<0.000019	<0.01	<0 01	<0.01	<0.01	<0 05	<0.01	<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	<0.00002	<0 01	<0.01	<0.01	<0.01	<0 05	<0.01	<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	<0.00002	<0 005	<0.005	<0.005	<0 005	<0.025	<0.005	<0.01
	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	<0.00002	<0.01	<0 01	<0.01	<0.01	<0 05	<0.01	<0.01
	T12-ROX-101716	10/17/2016		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	<0.00002	<0.01	<0 01	<0.01	<0.01	<0 05	<0.01	<0.0098
	T12-ROX-011217	1/12/2017		40.70	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 000031	<0.000021	<0 01	<0.01	<0.01	<0.01	<0 05	<0.01	<0.0098
	T12-ROX-040617	4/6/2017		41.18	NE	<0.25	1.4	<0 01	<0.25	<0.01	<0 01	<0.01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 00003 UJ	<0.00002 UJ	<0 01	<0.01	<0.01	<0.01	<0 05	<0.01	<0.0096
	T12-ROX-071317	7/13/2017	46.83 - 72 83	40.10	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	<0.00003	<0.00002	<0 01	<0.01	<0.01	<0.01	<0 05	<0.01	<0.0095

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)						**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-01	MW1-ROX-100614	10/6/2014	48 8 - 58 8	41.1	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005 UJ	0 00082 J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0 00084 J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0 00059 J	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW1-ROX-010816	1/8/2016		40 93	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW1-ROX-041216	4/12/2016		40 35	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	<0.001	<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		38.79	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW-1-ROX-011217	1/12/2017		38 35	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW1-ROX-041717	4/17/2017		38 58	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW1-ROX-071117	7/11/2017	48 8 - 58 8	37 24	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-02	MW2-ROX-101014	10/10/2014	49.87 - 59 87	42.49	NE	0.386 J	<0.01	<0 01	<0.01 UJ	0.0675	<0.01 UJ	<0.002	0.0512	0 0867	<0.01	<0 001	<0.002	0.006	<0.01	<0 01	<0.002	0.135	0.0901	<0.01	0.26 J	0.0183	0.278 J
	MW2-ROX-011615	1/16/2015		44.1	NE	0.358	<0 005	0.0031 J	0.0039 J	0.0823	0.0061	<0.001	0.0626	0.107	0.00052 J	<0.0005	<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	<0.005	0 0613 J	<0.005	0.0013	0 068 J	0.0802 J	<0.005	<0.0005	<0.001	0 0103	<0 005	<0.005	<0.001	0.185 J	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	<0.005	0.0683	<0.005	<0.001	0.0878	0 0983	<0.005	<0.0005	<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	<0 002	<0 01	<0.05	0 082	<0 05	<0.002	0.039	0.088	<0.002	<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	<0 002	<0 01	<0.05	0 049	<0 05	<0.002	0.027	0.063	<0.002	<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	<0 002	<0 01	<0.05	0 075	<0 05	<0.002	0.029	0.099	<0.002	<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	<0 002	<0 01	<0.05	0 079	<0 05	<0.002	0.048	0.095	<0.002	<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		40.10	NE	0.13	<0 001	<0.005	<0.025	0 036	<0.025	<0.001	0.016	0.044	<0.001	<0 001	<0.001	0.01	<0 001	<0.001	<0.001	0 017	0.044	<0.025	0 056	0.0057	0 061
	MW2-ROX-011217	1/12/2017		39 58	NE	0.097	<0 001	<0.005	<0.025	0 055	<0.025	<0.001	0.015	0.07	<0.001	<0 001	<0.001	0.013	<0 001	<0.001	<0.001	0 031	0.073	<0.025	0 051	0.0062	0 057
	MW2-ROX-041717	4/17/2017		39 69	NE	0.62	<0 005	<0.025	<0.13	0 075	<0.13	<0.005	0.053	0.094	<0.005	<0 005	<0.005	0.012	<0 005	<0.005	<0.005	0.12	0.088	<0.13	0.35	0.028	0.38
	MW2-ROX-071217	7/12/2017	49.87 - 59 87	38 66	NE	0.15	<0 001	<0.005	<0.025	0.06	<0.025	<0.001	0.014	0.079	<0.001	<0 001	<0.001	0.008	<0 001	<0.001	<0.001	0.04	0 07	<0.025	0 086	0.0073	0 093
MW-03	MW3-ROX-100914	10/9/2014	34.67 - 44 67	28.18	NE	<0.001	<0 005	<0.005	<0.005	0 0004 J	<0.005	0.003 J	<0 005	0 00053 J	<0.005	<0.0005	<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	<0.005	0.00065 J	<0.005	0.0101	<0 005	0.0018 J	<0.005	<0.0005	<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 UJ	<0 005 UJ	<0 005	<0.005	0.0012	<0.005 UJ	0 00042 J	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<0.001	<0 005	<0.005	<0 005 UJ	<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	<0.005	<0.001	<0 005	0 00062 J	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0 007	<0.025	<0.001	<0 001	0 0036	<0.001	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW3-ROX-040616	4/6/2016		27 07	NE	0 0031	<0 001	<0.005	<0.025	0 014	<0.025	0.0097	<0 001	0.025	<0.001	<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	<0 001	<0.005	<0.025	0 016	<0.025	0.0054	<0 001	0.034	<0.001	<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		25.79	NE	<0.001	<0 001	<0.005	<0.025	0.0042	<0.025	0.0036	<0 001	0 0085	<0.001	<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
	MW3-ROX-010617	1/6/2017		25 65	NE	0 0035	<0 001	<0.005	<0.025	0 019	<0.025	0.0051	<0 001	0.045	<0.001	<0 001	<0.001	0.039	<0 001	<0.001	<0.001	<0 001	0.00072 J	<0.025	0.12	0.0081	0.12
	MW3-ROX-041117	4/11/2017		26.13	NE	0 0011	<0 001	<0.005	<0.025	0.0098	<0.025	0.0035	<0 001	0.02	<0.001	<0 001	<0.001	0.019	<0 001	<0.001	<0.001	<0 001	<0.001	<0.025	0 086	0.0053	0 091
	MW3-ROX-071217	7/12/2017	34.67 - 44 67	24 25	NE	<0.001	<0 001	<0.005	<0.025	0.0026	<0.025	0.0028	<0 001	0 0078	<0.001	<0 001	<0.001	0 0045	<0 001	<0.001	<0.001	<0 001	<0.001	<0.025	0.02	0.0014 J	0 022

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-04	MW4-ROX-101614	10/16/2014	46.06 - 56 06	39.49	NE	<0.005	<0 025	<0.025	<0.025	0 0026 J	<0.025	0.0379	<0 025	<0.025	<0.025	<0.0025	<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	<0.005	0 0012 J	<0.005	0.0536	<0 005	0 00093 J	<0.005	<0.0005	<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	<0.005	0 0012 J	<0.005	<0.001	<0.005 UJ	0.0013 J	<0.005	<0.0005	<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	<0.005	0 0026 J	<0.005	<0.001	<0 005	0.0029 J	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0.0016	<0.025	0 011	<0 001	0 0015	<0.001	<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	<0 001	<0.005	<0.025	0.0017	<0.025	0 012	<0 001	0 0021	<0.001	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	0.00092 J
	MW4-ROX-071416	7/14/2016		37 85	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	0 0016 J
	MW4-ROX-100616	10/6/2016		37.18	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	0 0019 J
	MW4-ROX-010917	1/9/2017		36 84	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0045	<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
	MW4-ROX-041017	4/10/2017		37 08	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0046	<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
	MW4-ROX-071017	7/10/2017	45.06 - 55 06	35 68	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0078	<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-05	MW-5-ROX-100914	10/9/2014	33.97 - 43 97	27.75	NE	<0 001 UJ	<0 005	<0.005	<0 005 UJ	0 0012 J	<0.005 UJ	0 019	<0 005	<0.005	<0.005	<0.0005	<0.001	0 0015	<0 005	<0.005	<0.001	0.00058 J	<0.005	<0.005	0 0027 J	0.0012 J	0 0039 J
	MW5-ROX-011515	1/15/2015		29 34	NE	<0.001	<0 005	<0.005	<0.005	0.0057	<0.005	0.0215	<0 005	0.0018 J	<0.005	<0.0005	<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	<0.005	0 0076 J	<0.005	0.0349	<0.005 UJ	0.0056 J	<0.005	<0.0005	<0.001	0.00057 J	<0 005	<0.005	<0.001	<0.005 UJ	<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	<0.005	0.00097 J	<0.005	0.0413	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0.0031	<0.025	0 021	<0 001	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	0 0018 J
	MW5-ROX-040616	4/6/2016		26 80	NE	<0.001	<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	<0.001	<0.025	0 0025 J	<0.005	0.003 J
	MW5-ROX-070816	7/8/2016		26 28	NE	<0.001	<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	<0.001	<0.025	0 0017 J	<0.005	0 0021 J
	MW5-ROX-101016	10/10/2016		25.47	NE	<0.001	<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	<0.001	<0.025	0 0017 J	0.00077 J	0 0025 J
	MW5-ROX-010617	1/6/2017		25 33	NE	<0.001	<0 001	<0.005	<0.025	0.0074	<0.025	0.0014	<0 001	0 00096 J	<0.001	<0 001	<0.001	0.00076 J	<0 001	<0.001	<0.001	<0 001	<0.001	<0.025	0.0069	0.0016 J	0 0085 J
	MW5-ROX-041217	4/12/2017		25 69	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW5-ROX-071217	7/12/2017	33.97 - 43 97	23 96	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
MW-06A	MW6A-ROX-100814	10/8/2014	34.83 - 44 83	29 84	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	0.0082 J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0.0077	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	0.0045	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6A-ROX-011116	1/11/2016		29 36	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6A-ROX-040716	4/7/2016		29 07	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW6A-ROX-101116	10/11/2016		27 51	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW6A-ROX-011017	1/10/2017		27.43	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW6A-ROX-041217	4/12/2017		27 69	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0018	<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
	MW6A-ROX-071117	7/11/2017	34.83 - 44 83	26.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-06B	MW6B-ROX-100814	10/8/2014	64.05 - 69 05	29 87	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	0.003 J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.0005	<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	<0.005	0.0052	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	0.0054	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	0.0048	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6B-ROX-040716	4/7/2016		29.11	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW6B-ROX-101116	10/11/2016		27 56	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6B-ROX-011017	1/10/2017		27.49	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6B-ROX-041217	4/12/2017		27.75	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6B-ROX-071117	7/11/2017	64.05 - 69 05	26.18	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-06C	MW6C-ROX-100814	10/8/2014	84.95 - 89 95	29 67	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0 005	0.00052 J J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0.0037	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6C-ROX-010816	1/8/2016		29 31	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW6C-ROX-040716	4/7/2016		28 91	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW6C-ROX-071116	7/11/2016		28 30	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6C-ROX-101016	10/10/2016		27 37	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6C-ROX-011017	1/10/2017		27 26	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6C-ROX-041217	4/12/2017		27 56	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6C-ROX-071117	7/11/2017	84.95 - 89 95	25 99	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-06D	MW6D-ROX-100814	10/8/2014	104.72 - 109.72	29 53	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0.00051 UJ	<0 005	<0.005	<0.005	<0.0005	<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	<0 005	0.00057 J J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6D-ROX-010816	1/8/2016		29 59	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW6D-ROX-010816-DUP	1/8/2016		29 59	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW6D-ROX-040716	4/7/2016		28.76	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.005
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-101016	10/10/2016		27 26	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-101016-DUP	10/10/2016		27 26	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-011017	1/10/2017		27.14	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-011017-DUP	1/10/2017		27.14	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-041217	4/12/2017		27.43	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-041217-DUP	4/12/2017		27.43	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-071117	7/11/2017	104.72 - 109.72	25 83	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW6D-ROX-071117-DUP	7/11/2017	104.72 - 109.72	25 83	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-07	MW7-ROX-101614	10/16/2014	42.92 - 52 92	41 31	NE	<5	<25	<25	<25	<25	<25	<5	<25	<25	<25	<2.5	<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	<25	<5	<25	<25	<25	<2.5	<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	<5	<1	<5	<5	<5	<0.5	<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	<5	<1	<5	<5	<5	<0.5	<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 25	<0.05	<0 25 UJ	<0 25	<0.25	<0 025	<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 25	<0.05	<0 25 UJ	<0 25	<0.25	<0 025	<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	<25	<5	<25	<25	<25	<2.5	<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	<25	<5	<25	<25	<25	<2.5	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW7-ROX-101915	10/19/2015		41.43	NE	<10	<10	<50	<250	<10	<250	<10	<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	<10	<50	<250	<10	<250	<10	<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	<5	<25	<130	<5	<130	<5	<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	<5	<25	<130	<5	<130	<5	<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	<2	<10	<50	<2	<50	<2	<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	<2	<10	<50	<2	<50	<2	<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	<5	<25	<130	<5	<130	<5	<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	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW7-ROX-100616	10/6/2016		39 24	NE	<10	<10	<50	<250	<10	<250	<10	<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	<10	<50	<250	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<250	<50	<50	<100
	MW7-ROX-010917	1/9/2017		38 90	NE	<5	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW7-ROX-041017	4/10/2017		38 92	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	0 8 J	<1	<1	<1	<1	<1	<25	<5	<5	<10
	MW7-ROX-041017-DUP	4/10/2017		38 92	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	0.85 J	<1	<1	<1	<1	<1	<25	<5	<5	<10
	MW7 ROX-071117	7/11/2017	42.92 - 52 92	37.79	NE	<5	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW7 ROX-071117-DUP	7/11/2017	42.92 - 52 92	37.79	NE	<5	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
MW-08	MW8-ROX-101614	10/16/2014	33 6 - 43 6	32 23	NE	0.305 J	<5	<5	<5	<5	<5	1.19	<5	<5	<5	<0.5	<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	<5	0.906 J	<5	<5	<5	<0.5	<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 25	0 506	<0 25 UJ	0.0251 J	<0.25	<0 025	<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	<25	<5	<25	<25	<25	<2.5	<5	<5	<25	<25	<5	<25	<25	<25	<5	<5	<5
	MW8-ROX-101915	10/19/2015		32 30	NE	<5	<5	<25	<130	<5	<130	<5	<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	<2	<10	<50	<2	<50	<2	<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	<1	<5	<25	<1	<25	<1	<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	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
	MW8-ROX-100616	10/6/2016		29 99	NE	<5	<5	<25	<130	<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<130	<25	<25	<50
	MW8-ROX-010917	1/9/2017		29.79	NE	<2 5	<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	<2.5	<63	<13	<13	<25
	MW8-ROX-041017	4/10/2017		30 02	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
	MW8-ROX-071017	7/10/2017	33 6 - 43 6	28.48	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
MW-09	MW9-ROX-100714	10/7/2014	46.45 - 56.45	43 52	NE	<0.001	<0 005	<0 005	<0.005	<0 005	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005	<0 005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0 001	<0.025	<0 005	<0 005	<0.005
	MW9-ROX-011316	1/13/2016		42 63	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.005
	MW9-ROX-041216	4/12/2016		41 98	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.005
	MW9-ROX-071316	7/13/2016		40 93	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	MW9-ROX-101316	10/13/2016		40 39	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	MW9-ROX-011117	1/11/2017		40 06	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	MW9-ROX-041417	4/14/2017		40 67	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	MW9-ROX-071217	7/12/2017	46.45 - 56.45	38 86	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-10	MW10-ROX-100714	10/7/2014	44.43 - 54.43	43 58	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0.005	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW10-ROX-011316	1/13/2016		42 53	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW10-ROX-041116	4/11/2016		41 88	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW10-ROX-071316	7/13/2016		41 00	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW10-ROX-101216	10/12/2016		40 27	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW10-ROX-011117	1/11/2017		39 88	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW10-ROX-041417	4/14/2017		40 50	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW10-ROX-071117	7/11/2017	44.43 - 54.43	38 86	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-11	MW11-ROX-100714	10/7/2014	41.66 - 51 66	40 89	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0.005	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW11-ROX-011216	1/12/2016		40 33	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW11-ROX-041116	4/11/2016		39.49	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW11-ROX-071316	7/13/2016		38 59	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW11-ROX-101216	10/12/2016		37 93	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW11-ROX-011117	1/11/2017		37 63	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW11-ROX-041417	4/14/2017		38.17	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW11-ROX-071017	7/10/2017	41.66 - 51 66	36 39	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-12	MW12-ROX-100614	10/6/2014	41.92 - 51 92	40 98	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005 UJ	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW12-ROX-100815-DUP	10/8/2015		40 54	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW12-ROX-011116	1/11/2016		40 98	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW12-ROX-040716	4/7/2016		39 82	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW12-ROX-071216	7/12/2016		38 89	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW12-ROX-101116	10/11/2016		38 85	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW12-ROX-010917	1/9/2017		38.11	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW12-ROX-041417	4/14/2017		38 50	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW-12-ROX-07072017	7/7/2017	41.92 - 51 92	36 84	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-13	MW13-ROX-101014	10/10/2014	25.57 - 35 57	27.48	NE	<0.001	<0 005	<0.005	<0 005 UJ	<0 005	<0.005	0.0045	<0 005	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005	<0.001	<0 005	<0.005	<0.005	<0.001 UJ	<0.001	0 0011 J
	MW13-ROX-011615	1/16/2015		29 09	NE	0 00097 J	<0 005	<0.005	<0.005	<0 005	<0.005	0 006	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0.0075	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	0.0054	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW13-ROX-010716	1/7/2016		27.16	NE	0 0021	<0 001	<0.005	<0.025	0 008	<0.025	0 013	<0 001	0.011	<0.001	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW13-ROX-071116	7/11/2016		26 01	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW13-ROX100716	10/7/2016		25.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW13-ROX-010617	1/6/2017		25 54	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0067	<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
	MW13-ROX-041317	4/13/2017		25.75	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW13-ROX-070717	7/7/2017	25.57 - 35 57	23 64	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0067	<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-14	MW14-ROX-101414	10/14/2014	33.42 - 43.42	31 65	NE	<0.001	<0 005	<0.005	<0 005 UJ	0.00043 J	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005	<0.001	<0 005	<0.005	<0.005	<0.001 UJ	<0.001	0 00041 J J
	MW14-ROX-011615	1/16/2015		33 58	NE	0 00036 J	<0 005	<0.005	<0.005	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW-14-ROX-010816	1/8/2016		31 64	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW14-ROX-041416	4/14/2016		31 32	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	0.001 J
	MW14-ROX-071116	7/11/2016		30 59	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW14-ROX-101416	10/14/2016		29 62	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW14-ROX-011117	1/11/2017		29 61	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW14-ROX-041317	4/13/2017		29 54	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW14-ROX-070717	7/7/2017	33.42 - 43.42	28 28	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-16	MW16-ROX-100714	10/7/2014	37.06 - 47 06	42 27	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0.0048 U	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW16-ROX-011216	1/12/2016		41 99	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW16-ROX-040816	4/8/2016		41.17	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW16-ROX-071216	7/12/2016		39 93	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW16-ROX-101116	10/11/2016		39 64	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW16-ROX-010917	1/9/2017		39.15	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW16-ROX-041417	4/14/2017		39.45	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW16-ROX-071017	7/10/2017	37.06 - 47 06	38.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

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CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-22	MW22-ROX-101014	10/10/2014	37.88 - 47 88	41.43	NE	1.88 J	<0.05	<0 05	<0.05 UJ	0.0661	<0.05 UJ	<0.01	0.202	0.112	<0.05	<0 005	<0 01	2.3	<0.05	<0 05	<0.01	0 688	0.207	<0.05	3.08 J	1.74	4.82 J
	MW22-ROX-011615	1/16/2015		42.19	NE	2.84	<0.05	<0 05	<0.05	0.11	0.0111 J	<0.01	0.339	0 2	<0.05	<0 005	<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	<0.005	0.124	<0.005	<0.001	0 315 J	0.219	<0.005	<0.0005	<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	<0.1	0 0926 J	<0.1	<0.02	0.219	0.185	<0.1	<0.01	<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	<0.02	<0.1	<0 5	0 048	<0.5	<0.02	0.18	0.075	<0.02	<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	<0.02	<0.1	<0 5	0.08	<0.5	<0.02	0 26	0.13	<0.02	<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	<0.02	<0.1	<0 5	0 075	<0.5	<0.02	0 23	0.12	<0.02	<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	<0 025	<0.13	<0.63	0 097	<0 63	<0.025	0 33	0.17	<0.025	<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	<0 025	<0.13	<0.63	0.1	<0 63	<0.025	0 32	0.17	<0.025	<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	<0 005	<0.025	<0.13	0 024	<0.13	<0.005	0.075	0.045	<0.005	<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	<0 005	<0.025	<0.13	0 025	<0.13	<0.005	0.078	0.042	<0.005	<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		38.17	NE	0.86	<0.01	<0 05	<0.25	0 031	<0 25	<0.01	0.11	0.063	<0.01	<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	<0.01	<0 05	<0.25	0 034	<0 25	<0.01	0.097	0.061	<0.01	<0.01	<0 01	0.12	<0.01	<0 01	<0.01	0.35	0.092	<0.25	1.7	0.8	2.5
	MW22-ROX-011217	1/12/2017		37 80	NE	0 3	<0 005	<0.025	<0.13	0 018	<0.13	<0.005	0.057	0.033	<0.005	<0 005	<0.005	0.032	<0 005	<0.005	<0.005	0.19	0.048	<0.13	0.52	0 29	0.8
	MW22-ROX-011217-DUP	1/12/2017		37 80	NE	0.28	<0 005	<0.025	<0.13	0 017	<0.13	<0.005	0.055	0.029	<0.005	<0 005	<0.005	0.028	<0 005	<0.005	<0.005	0.17	0.046	<0.13	0.48	0 26	0.74
	MW22-ROX-041717	4/17/2017		38 24	NE	0.89	<0.01	<0 05	<0.25	0 032	<0 25	<0.01	0.099	0.057	<0.01	<0.01	<0 01	0.077	<0.01	<0 01	<0.01	0.36	0.085	<0.25	1.7	0.71	2.4
	MW22-ROX-041717-DUP	4/17/2017		38 24	NE	0.98	<0.01	<0 05	<0.25	0 034	<0 25	<0.01	0.11	0.062	<0.01	<0.01	<0 01	0.084	<0.01	<0 01	<0.01	0.39	0.094	<0.25	1.8	0.77	2.6
	MW22-ROX-071217	7/12/2017		36 83	NE	0.17	<0 002	<0 01	<0.05	0.0092	<0 05	<0.002	0.031	0.012	<0.002	<0 002	<0.002	0.017	<0 002	<0.002	<0.002	0 063	0.018	<0.05	0.27	0.13	0.4
	MW22-ROX-071217-DUP	7/12/2017		36 83	NE	0.15	<0 002	<0 01	<0.05	0.0088	<0 05	<0.002	0.029	0.011	<0.002	<0 002	<0.002	0.015	<0 002	<0.002	<0.002	0 052	0.015	<0.05	0.23	0.11	0.34
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39 02	30 90	NE	<0.001	<0 005	<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	<0.001	<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 UJ	<0.005	<0 005	<0.005	0.0039	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<0.001	<0 005	<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	<0.005	<0.001	0 004 J	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW-23-ROX-010716	1/7/2016		28.78	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW-23-ROX-040616	4/6/2016		27 96	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW-23-ROX-070816	7/8/2016		27 54	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW23-ROX-BP-100716	10/7/2016		26 64	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01
	MW23-ROX-011017	1/10/2017		26 83	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW23-ROX-041117	4/11/2017		27 54	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW23-ROX-071017	7/10/2017	29.02 - 39 02	25.13	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
MW-24	MW24-ROX-100814	10/8/2014	38.89 - 48 89	42.16	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0 001 UJ	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW24-ROX-011316	1/13/2016		41.44	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW24-ROX-040816	4/8/2016		40.79	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW24-ROX-071216	7/12/2016		39 67	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW24-ROX-101116	10/11/2016		39.19	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW24-ROX-010917	1/9/2017		38 97	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW24-ROX-041717	4/17/2017		39.42	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW-24-ROX-07072017	7/7/2017		37 68	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45 59	36.44	NE	<2	<10	<10	<10	<10	<10	<2	<10	<10	<10	<1	<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	<1.3	0 282	<1.3	<1.3	<1 3	<0.13	<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 25	0.125	<0 25 UJ	<0 25	<0.25	<0 025	<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	<1	<0 2	<1	<1	<1	<0.1	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	<0.1	<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	<0.1	<2 5	<0.5	<0.5	<0.5
	MW25-ROX-011416	1/14/2016		36.12	NE	<0.02	<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 02	<0 5	<0.1	<0.1	<0.1
	MW25-ROX-041916	4/19/2016		35 67	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	0.00085 J
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.01	<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	<0.01	<0.25	<0.05	<0 05	<0.1
	MW25-ROX-100616	10/6/2016		34 27	NE	<0.002	<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	<0.002	<0.05	<0.01	<0 01	<0.02
	MW25-ROX-011117	1/11/2017		34 00	NE	<0.001	<0 001	<0.005	<0.025	0.00059 J	<0.025	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
	MW25-ROX-041117	4/11/2017		34 31	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0 025	0 023	<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
	MW25-ROX-071017	7/10/2017	35.59 - 45 59	32.75	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0 025	0.02	<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-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0 005	0 0019	<0 005	<0.005	<0.005	<0.0005	<0.001	<0.001	<0 005	<0.005	<0.005	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW26-ROX-010716	1/7/2016		39 55	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW26-ROX-040616	4/6/2016		38.44	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW26-ROX-071216	7/12/2016		37.74	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW26-ROX-101016	10/10/2016		37.13	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW26-ROX-010617	1/6/2017		36.74	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW26-ROX-041417	4/14/2017		36 91	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW-26-ROX-07072017	7/7/2017	38.15 - 48.15	35 61	NE	<0.001	<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	<0.001	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005 UJ	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<0.001	<0 005	<0.005	<0 005 UJ	<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	<0 005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW27-ROX-011316	1/13/2016		40 68	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW27-ROX-041116	4/11/2016		39.73	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW-27-ROX-071316	7/13/2016		38 94	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW27-ROX-101216	10/12/2016		38 50	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW27-ROX-011117	1/11/2017		38 05	NE	<0.001	<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 00094 J	<0 001	<0.001	<0.025	<0.005	<0 005	<0.01
	MW27-ROX-041417	4/14/2017		38.72	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	MW27-ROX-071017	7/10/2017	39.79 - 49.79	37 23	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**Isopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43 61	36.44	NE	<0.001	<0 005	<0.005	<0.005	0.00075 J	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0 005	0 0017 J
	MW28-ROX-101215-DUP	10/12/2015		40 04	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW28-ROX-011416	1/14/2016		39 98	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW28-ROX-041216	4/12/2016		39 20	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0.0011	<0 001	<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		37 86	NE	<0.001	<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	<0.001	<0.025	<0 005	0.0011 J	<0.01
	MW28-ROX-011217	1/12/2017		37.14	NE	<0.001	<0 001	<0.005	<0.025	0.0018	<0.025	0.0028	<0 001	<0.001	<0.001	<0 001	<0.001	0.00082 J	<0 001	<0.001	<0.001	0.0013	0.00071 J	<0.025	0.01	0 02	0.03
	MW28-ROX-041717	4/17/2017		38 05	NE	0.004	<0 001	<0.005	<0.025	0.0041	<0.025	0 00098 J	<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	0.0054	0 0063 J
	MW28-ROX-071217	7/12/2017	33.61 - 43 61	36.48	NE	0 00063 J	<0 001	<0.005	<0.025	0.0025	<0.025	0 003	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.025	<0 005	0.00092 J	0 0017 J
P-54	P54-ROX-100814	10/8/2014	38 - 63	40 88	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0.005	<0 001 UJ	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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 UJ	<0 005 UJ	<0 005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005 UJ	<0.001	<0 005	<0.005	<0 005 UJ	<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	<0.005	<0.001	<0.0037 U	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P54-ROX-011216	1/12/2016		40 22	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P54-ROX-041216	4/12/2016		39.42	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P54-ROX-071216	7/12/2016		38.44	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	P54-ROX-101216	10/12/2016		37 85	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	P54-ROX-010917	1/9/2017		37 80	NE	<0.001	<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 00077 J	<0 001	<0.001	<0.025	<0 005	<0 005	<0.01
	P54-ROX-041717	4/17/2017		38 30	NE	<0.001	<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	<0 001	<0.001	<0.025	<0 005	<0.005	<0.01
	P54-ROX-071017	7/10/2017	38 - 63	36 35	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
P-56	P56-ROX-101314	10/13/2014	40.82 - 65 82	45 05	NE	0.164	<0 005	<0.005	<0 005 UJ	0.0645	<0.005 UJ	<0.001	0.0679	0 0709	<0.005	<0.0005	<0.001	0 0183	<0 005	<0.005	<0.001	0.0657	0.0194	<0.005	0.17 J	0.0066	0.176 J
	P56-ROX-011915	1/19/2015		46 58	NE	0.104	<0 005	<0.005	<0.005	0.0532	<0.005	<0.001	0.0261	0 0574	<0.005	<0.0005	<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	<0.005	0.0768	<0.005	<0.001	0.0754 J	0 0918	<0.005	<0.0005	<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	<0.005	0 057	<0.005	<0.001	0.0158	0 0594	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0 027	0 011 J	<0.001	0.016	0.031	<0.001	<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	<0 005	<0.025	<0.13	0 031	<0.13	<0.005	0.023	0.036	<0.005	<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	<0 005	<0.025	<0.13	0 035	<0.13	<0.005	0.019	0.039	<0.005	<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	<0 002	<0 01	<0.05	0 032	<0 05	<0.002	0.013	0.032	<0.002	<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		42 35	NE	0.051	<0 001	<0.005	<0.025	0 031	<0.025	<0.001	0.023	0.036	<0.001	<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
	P56-ROX-011217	1/12/2017		42 01	NE	0.017	<0 001	<0.005	<0.025	0 028	<0.025	<0.001	0.012	0.031	<0.001	<0 001	<0.001	0 0049	<0 001	<0.001	<0.001	0.04	0 01	<0.025	0 073	0 003 J	0 076
	P56-ROX-040617	4/6/2017		42.46	NE	0.017	<0 001	<0.005	<0.025	0 028	<0.025	<0.001	0.0065	0.032	<0.001	<0 001	<0.001	0 0041	<0 001	<0.001	<0.001	0 038	0.011	<0.025	0 079	0.0018 J	0.08
	P56-ROX-071217	7/12/2017	40.82 - 65 82	41.11	NE	0 0089	0.0028	<0.005	<0.025	0 013	<0.025	<0.001	0.0054	0.015	<0.001	<0 001	<0.001	0 0018	<0 001	<0.001	<0.001	0.0091	0.0025	<0.025	0 026	0.00088 J	0 027

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
P-57	P57-ROX-101414-DUP	10/14/2014	40.46 - 65.46	45 00	NE	1.77 J J	<10	<10	<10 UJ	<10	<10 UJ	<2	<10	<10	<10	<1	<2	0.849 J	<10	<10	<2	1.18 J	<10	<10	2.37 J	0 949 J	3.32 J
	P57-ROX-101414	10/14/2014		45 00	NE	3.86 J	<10	<10	<10 UJ	<10	<10 UJ	<2	2.05 J	<10	<10	<1	<2	2.65	<10	<10	<2	2.37 J	<10	<10	5.79 J	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	<2.5	<0 5	<2.5	<2.5	<2 5	<0.25	<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	<0.25	0 0246 J	<0 25	<0.05	<0 25 UJ	0.0468 J	<0.25	<0 025	<0 05	0 0376 J	<0 25 UJ	<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	<5	<1	<5	<5	<5	<0.5	<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	<1	<5	<25	<1	<25	<1	<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	<1	<5	<25	<1	<25	<1	<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	<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	<0 25	<6 3	<1.3	<1 3
	P57-ROX-071316	7/13/2016		44 02	NE	0.57	<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	<0.5	<13	<2.5	<2.5	<5
	P57-ROX-101816	10/18/2016		43.17	NE	0 3 J	<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	<0.5	<13	<2.5	<2.5	<5
	P57-ROX-011617	1/16/2017		42 82	NE	0 24 J	<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	<0.25	<6.3	<1 3	<1.3	<2 5
	P57-ROX-040717	4/7/2017		43 05	NE	0.14 J	<0.2	<1	<5	<0.2	<5	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<5	<1	<1	<2
	P57-ROX-071317	7/13/2017	44.19 - 54.19	41 95	NE	0.18 J	<0.2	<1	<5	<0.2	<5	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<0 2	<0.2	<0.2	<5	<1	<1	<2
P-58	P58-ROX-101514	10/15/2014	40 214 - 65 214	43.14	NE	0.793 J	<2.5	<2.5	<2 5	1.43 J	<2.5	<0 5	<2.5	0.781 J	<2 5	<0.25	<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	<5	<1	<5	<5	<5	<0.5	<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	<0.05	0.0575	<0 05	<0.01	0.12 J	0 0762	<0.05	<0 005	<0 01	0.101	<0 05 UJ	<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	<5	<1	<5	<5	<5	<0.5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	0.285 J
	P58-ROX-101615	10/16/2015		43.45	NE	<2	<2	<10	<50	<2	<50	<2	<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	<2	<10	<50	<2	<50	<2	<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	<1	<5	<25	<1	<25	<1	<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	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
	P58-ROX-101816	10/18/2016		41 05	NE	<2	<2	<10	<50	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<50	<10	<10	<20
	P58-ROX-011617	1/16/2017		40.73	NE	0 98 J	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
	P58-ROX-041117	4/11/2017		40.74	NE	0.48 J	<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	<0.5	<13	<2 5	<2.5	<5
	P58-ROX-071317	7/13/2017	40 214 - 65 214	39 88	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
P-59	P59-ROX-101414	10/14/2014	47 911 - 72 911	46.18	NE	2.33	<0 005	<0 005	<0 005 UJ	0 0932 J	<0.005 UJ	0.0041 J	0.38 J	0.188 J	<0.005	<0.0005	<0.001	1.13	<0 005	<0 005	<0.001	0 901	0.26 J	<0.005	5.14 J	1 03	6.17 J
	P59-ROX-011915	1/19/2015		47.42	NE	2 2	<0 5	<0.5	<0 5	0 0619 J	<0.5	<0.1	0 572	0.108 J	<0 5	<0.05	<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	<0.05 UJ	0 0432 J	<0 05	<0 01	0.161 J	0 0763	<0.05	<0 005	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	<0.13	0 0111 J	<0.13	<0.025	0.162	0.0211 J	<0.13	<0 013	<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	<0.05	<0 25	<1 3	0.03 J	<1.3	<0 05	0 085	0 04 J	<0.05	<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	<0 025	<0.13	<0 63	0.022 J	<0 63	<0.025	0.11	0.037	<0.025	<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	<0.02	<0.1	<0 5	0.04	<0.5	<0 02	0.14	0.084	<0.02	<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	<0 025	<0.13	<0 63	0 046	<0 63	<0.025	0.18	0.059	<0.025	<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		43 39	NE	2.1	<0.05	<0 25	<1 3	0.05	<1.3	<0 05	0.19	0.1	<0.05	<0.05	<0 05	2 3	<0.05	<0 05	<0 05	0.64	<0 05	<1 3	4.2	0 27	4.5
	P59-ROX-011617	1/16/2017		42 83	NE	2 3	<0.05	<0 25	<1 3	0.07	<1.3	<0 05	0 25	0.14	<0.05	<0.05	<0 05	0.61	<0.05	<0 05	<0 05	0.87	0 22	<1 3	3.5	0.14 J	3.6
	P59-ROX-040717	4/7/2017		43 31	NE	2	<0.05	<0 25	<1 3	0.048 J	<1.3	<0 05	0.18	0.089	<0.05	<0.05	<0 05	0.59	<0.05	<0 05	<0 05	0.55	0.13	<1 3	3.3	0.12 J	3.4
	P59-ROX-071317	7/13/2017	47 911 - 72 911	42.16	NE	1 9	<0.05	<0 25	<1 3	0 051	<1.3	<0 05	0.18	0.1	<0.05	<0.05	<0 05	2.1	<0.05	<0 05	<0 05	0.63	0.15	<1 3	3.5	0.13 J	3.6

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Ethylbenzene	Ethyl methacrylate	Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	sopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	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)							0.007 [3]	0.035 [3]	0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.00043 [3]	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]	0.42 [1]
P-66	P66-ROX-101414	10/14/2014	34.72 - 59.72	34.48	NE	0 0013	<0 005	<0.005	<0 005 UJ	0.129	<0.005	0.0111	<0 005	0.137	<0.005	<0.0005	<0.001	0 0016	<0.005 UJ	<0.005	<0.001	<0 005	<0.005	<0.005	<0.001 UJ	0.0009 J	0 0018 J
	P66-ROX-011615	1/16/2015		36 62	NE	0 0016	<0 005	<0.005	<0.005	0.121	<0.005	0.0171	0.006	0.136	<0.005	<0.0005	<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	<0.005	0.116	<0.005	0.0172	0.0053	0.127	<0.005	<0.0005	<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	<0.005	0.133	<0.005	<0.001	<0.005 UJ	0.134	<0.005	<0.0005	<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	<0.005	0.13	<0.005	<0.001	<0.005 UJ	0.132	<0.005	<0.0005	<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	<0.005	0.133	<0.005	<0.001	<0 005	0.117	<0.005	<0.0005	<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	<0.005	0.132	<0.005	<0.001	<0 005	0.119	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0 072	<0.025	0 019	0.0035	0.068	<0.001	<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	<0 001	<0.005	<0.025	0 085	<0.025	<0.001	<0 001	0.083	<0.001	<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	<0 001	<0.005	<0.025	0 068	<0.025	<0.001	0.017	0.075	<0.001	<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	<0 001	<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	<0.001	0 006	0.00082 J	<0.025	0 0032 J	0 001 J	0 0042 J
	P66-ROX-101416	10/14/2016		32 61	NE	0 0091	<0 001	<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	<0.001	0 024	0.0014	<0.025	0 0039 J	0 001 J	0 0049 J
	P66-ROX-011117	1/11/2017		32.41	NE	0 0049	<0 001	<0.005	<0.025	0 083	<0.025	0.0052	0.051	0.12	<0.001	<0 001	<0.001	0.00087 J	<0 001	<0.001	<0.001	0 024	0.0012	<0.025	0 0031 J	0.0013 J	0 0044 J
	P66-ROX-041317	4/13/2017		32.19	NE	0 00056 J	<0 001	<0.005	<0.025	0 082	<0.025	<0.001	0.0018	0.085	<0.001	<0 001	<0.001	0 0011	<0 001	<0.001	<0.001	0.0014	<0.001	<0.025	<0 005	0.00081 J	<0.01
	P66-ROX-071217	7/12/2017	34.72 - 59.72	31 38	NE	0 0061	<0 001	<0.005	<0.025	0 081	<0.025	0.0086	0.14	0.12	<0.001	0.0018	<0.001	0.00092 J	<0 001	<0.001	<0.001	0 041	0.00087 J	<0.025	0 0047 J	0.0013 J	0.006 J
P-74	P74-ROX-101414	10/14/2014	44.427 - 69.427	41.48	NE	<0.001	<0 005	<0.005	<0 005 UJ	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<0.001	<0.001	<0.005 UJ	<0.005	<0.001	<0 005	<0.005	<0.005	<0.001 UJ	<0 001	0 00043 J J
	P74-ROX-011915	1/19/2015		43.47	NE	0.082	<0 005	<0.005	<0.005	0 0029 J	<0.005	0.0056	0.0193	0 0053	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	0 00042 J	<0.005	<0.0005	<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	<0.005	<0.001	<0 005	<0.005	<0.005	<0.0005	<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	<0 005	<0.025	<0.13	<0 005	<0.13	<0.005	0 02	0.0038 J	<0.005	<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	<0 001	<0.005	<0.025	<0 001	<0.025	<0.001	<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	<0 001	<0.005	<0.025	<0 001	<0.025	0.0018	0.0012	<0.001	<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	<0 001	<0.005	<0.025	<0 001	<0.025	<0.001	0.0018	<0.001	<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		39.44	NE	0.002	<0 001	<0.005	<0.025	0.00063 J	<0.025	<0.001	0.0038	0 0012	<0.001	<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
	P74-ROX-011217	1/12/2017		38 64	NE	0 0016	<0 001	<0.005	<0.025	<0 001	<0.025	0.0055	<0 001	<0.001	<0.001	<0 001	<0.001	0 0017	<0 001	<0.001	<0.001	0.0048	0.0011	<0.025	0 0037 J	0.0015 J	0 0052 J
	P74-ROX-040717	4/7/2017		38 92	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	P74-ROX-071217	7/12/2017	44.427 - 69.427	38 08	NE	0 0017	<0 001	<0.005	<0.025	<0 001	<0.025	<0.001	0.0012	<0.001	<0.001	<0 001	<0.001	0 0018	<0 001	<0.001	<0.001	0 011	0.0053	<0.025	0 0048 J	0.00066 J	0 0055 J
P-93A	P93A-ROX-101514	10/15/2014	48.166 - 63.166	45 06	NE	0 229 J J	<2.5	<2.5	<2 5	<2.5	<2.5	<0 5	<2.5	<2.5	<2 5	<0.25	<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 J	<2.5	<2.5	<2 5	<2.5	<2.5	<0 5	<2.5	<2.5	<2 5	<0.25	<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	<0.005 UJ	<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	<0.001 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	<0.005	0 0049 J	<0.005	<0.001	0 011 J	0 0059	<0.005	<0.0005	<0.001	0.003	<0.005 UJ	<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	<0.5	<0.1	<0.5	<0.5	<0 5	<0.05	<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	<1	<5	<25	<1	<25	<1	<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	<1	<5	<25	<1	<25	<1	<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	<2	<10	<50	<2	<50	<2	<2	<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	<2	<10	<50	<2	<50	<2	<2	<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	<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	<0 25	<6 3	<1.3	<1.3	<1 3
	P93A-ROX-041916-DUP	4/19/2016		43 08	NE	<0.25	<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	<0 25	<6 3	<1.3	<1.3	<1 3
	P93A-ROX-071316	7/13/2016		42 20	NE	<0.1	<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	<0.1	<2 5	<0.5	<0.5	<1
	P93A-ROX-071316-DUP	7/13/2016		42 20	NE	<0.1	<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	<0.1	<2 5	<0.5	<0.5	<1
	P93A-ROX-101816	10/18/2016		41 35	NE	<0.02	<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 02	<0 5	<0.1	<0.1	<0 2
	P93A-ROX-101816-DUP	10/18/2016		41 35	NE	<0.02	<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 02	<0 5	<0.1	<0.1	<0 2
	P93A-ROX-011217	1/12/2017		41 04	NE	<0.005	<0 005	<0.025	<0.13	<0 005	<0.13	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.13	<0 025	<0 025	<0.05
	P93A-ROX-011217-DUP	1/12/2017		41 04	NE	<0.005	<0 005	<0.025	<0.13	<0 005	<0.13	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.005	<0 005	<0.005	<0.13	<0 025	<0 025	<0.05
	P93A-ROX-040717	4/7/2017		41 26	NE	<0.002	<0 002	<0 01	<0.05	<0 002	<0 05	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.05	<0.01	<0 01	<0.02
	P93A-ROX-040717-DUP	4/7/2017		41 26	NE	<0.002	<0 002	<0 01	<0.05	<0 002	<0 05	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.002	<0.05	<0.01	<0 01	<0.02
	P93A-ROX-071317	7/13/2017	43.07 - 53 07	40.11	NE	<0.001	<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	<0.001	<0.025	<0 005	<0 005	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
P-93B	P93B-ROX-101514	10/15/2014	74 6 - 76 6	45.15	NE	<0 5	<2.5	<2.5	<2.5 UJ	<2.5	<2.5	<0 5	<2.5	<2.5	<2 5	<0.25	<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	<5	<1	<5	<5	<5	<0.5	<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	<5	<1	<5	<5	<5	<0.5	<1	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1
	P93B-ROX-021915	2/19/2015		47 24	NE	<0 5	<2.5	<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	<0 005 UJ	0.0226	<0 005	<0.001	0.0033 J J	0 0286	<0.005	<0.0005	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 UJ	<5	<5	<1	<5 UJ	<5	<5	<0.5	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	<25	<5	<25	<25	<25	<2.5	<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	<10	<2	7.01 J	<10	<10	<1	<2	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2
	P93B-ROX-101515	10/15/2015		45.18	NE	<2 5	<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	<2.5	<63	<13	<13	<13
	P93B-ROX-011316	1/13/2016		44 96	NE	<1	<1	<5	<25	<1	<25	<1	<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	<1	<5	<25	<1	<25	<1	<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	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
	P93B-ROX-101816	10/18/2016		42.73	NE	<0 5	<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	<0.5	<13	<2 5	<2.5	<5
	P93B-ROX-011017	1/10/2017		42.41	NE	<0 5	<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	<0.5	<13	<2 5	<2.5	<5
	P93B-ROX-011017-DUP	1/10/2017		42.41	NE	<0 5	<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	<0.5	<13	<2 5	<2.5	<5
	P93B-ROX-040617	4/6/2017		42 59	NE	<0 5	<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	<0.5	<13	<2 5	<2.5	<5
	P93B-ROX-07117	7/11/2017	74 6 - 76 6	41 59	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
	P93B-ROX-07117-DUP	7/11/2017	74 6 - 76 6	41 59	NE	<1	<1	<5	<25	<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<5	<5	<10
P-93C	P93C-ROX-101514	10/15/2014	94 255 - 96 255	44 99	NE	<0.001	<0 005	<0.005	<0.005	<0 005	<0 005	0 0046	<0 005	<0.005	<0.005	<0.0005	<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	<0.5	<0.1	<0.5	<0.5	<0 5	<0.05	<0.1	<0.1	<0.5	<0.5	<0 5	<0.1	<0.5	<0.5	<0 5	<0.1	<0.1
	P93C-ROX-021915	2/19/2015		48 22	NE	<1	<5	<2	<10	<1	<5	<1	<5	<1	<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 UJ	<0 5	<0.5	<0.1	<0.5 UJ	<0.5	<0 5	<0.05	<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	<0 005	0 0016	<0.0037 U	<0.005	<0.005	<0.0005	<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	<0 001	<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	<0 001	<0.025	<0 005	<0 005	<0.005
	P-93C-ROX-010816	1/8/2016		44 68	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.005
	P93C-ROX-041816	4/18/2016		44 06	NE	0 00085 J	<0 001	<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	<0.001	0.0011	<0 001	<0.025	<0 005	<0 005	0.00067 J
	P93C-ROX-071216	7/12/2016		43 37	NE	<0.001	<0 001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	P93C-ROX-101816	10/18/2016		42.49	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	P93C-ROX-011117	1/11/2017		42 20	NE	<0.001	<0 001	<0 005	<0.025	<0 001	<0 025	0 0054	<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
	P93C-ROX-040517	4/5/2017		42.19	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	P93C-ROX-071217	7/12/2017	92.47 - 97.47	41 30	NE	<0.001	<0 001	<0 005	<0.025	<0 001	<0 025	0 0041	<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-93D	P93D-ROX-101514	10/15/2014	125.75 - 127.75	45.14	NE	<0.01	<0.05	<0 05	<0 05	<0.05	<0 05	<0 01	<0.05	<0 05	<0.05	<0 005	<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	<0 005	0 002	<0 005	0 00067 J	<0.005	<0.0005	<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	<1.3	<0 25	<1.3	<1.3	<1 3	<0.13	<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	<13	<5	<25	<2 5	<13	<2 5	<13	<2.5	<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	<0.5	<0.1	<0.5 UJ	<0.5	<0 5	<0.05	<0.1	<0.1	<0.5 UJ	<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	<2.5	<0 5	<2.5	<2.5	<2 5	<0.25	<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	<0.1	<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	<0.1	<2 5	<0.5	<0.5	0.081 J
	P93D-ROX-011316	1/13/2016		45.10	NE	<0.1	<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	<0.1	<2 5	<0 5	<0.5	<0 5
	P93D-ROX-041916	4/19/2016		44 61	NE	<0.05	<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	<0 05	<1 3	<0.25	<0.25	<0.25
	P93D-ROX-071516	7/15/2016		43 83	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	P93D-ROX-101716	10/17/2016		42.78	NE	<0.001	<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	<0 001	<0.025	<0 005	<0 005	<0.01
	P93D-ROX-011017	1/10/2017		42 59	NE	<0.001	<0 001	<0 005	<0.025	<0 001	<0 025	0 0023	<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
	P93D-ROX-040617	4/6/2017		42 80	NE	<0.001	<0 001	<0 005	<0.025	<0 001	<0 025	0 002	<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
	P93D-ROX-07117	7/11/2017	125.75 - 127.75	41 64	NE	<0.001	<0 001	<0 005	<0.025	<0 001	<0 025	0 0041	<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
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
P-114	P114-ROX-101714	10/17/2014	32 672 - 52 672	29.43	NE	0.00045 J J	<0 005	<0.005	<0.005	<0 005	<0.005	0.0098 J	<0 005	0.00087 J J	<0.005	<0.0005	<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	<0.005	0.0268 J	<0 005	<0.005	<0.005	<0.0005	<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	<0.005	0.0237	<0.005 UJ	<0.005	<0.005	<0.0005	<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	<0.005	0.0265	0 002 J	<0.005	<0.005	<0.0005	<0.001	<0.001	<0 005	<0.005	<0.001	<0 005	<0.005	<0.005	<0 001	<0.001	<0.001
	P114R-ROX-100515	10/5/2015	23.01 - 33 01	28.15	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P114R-ROX-010716	1/7/2016				<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P114R-ROX-040816	4/8/2016	-			<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.005
	P114R-ROX-070816	7/8/2016				<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
P-114R	P114R-ROX-100716	10/7/2016	23.01 - 33 01	23 89	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	P114R-ROX-010617	1/6/2017		24 81	NE	<0.001	<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 00098 J	<0 001	<0.001	<0.025	<0 005	<0.005	<0.01
	P114R-ROX-041317	4/13/2017		25 05	NE	<0.001	<0 001	<0.005	<0.025	<0 001	<0.025	0 00085 J	<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
	P114R-ROX-071117	7/11/2017	23.01 - 33 01	22.45	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
ROST-3-MW	ROST3MW-ROX-100914	10/9/2014	37.81 - 47 81	41 31	NE	0 0398	<0 005	<0.005	<0.005	0 0021 J	<0.005	<0 001 UJ	0.0061	0.0028 J	<0.005	<0.0005	<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	<0.005	0 0016 J	<0.005	<0.001	0.0061	0.0021 J	<0.005	<0.0005	<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	<0.005	0.0014 J J	<0.005	<0.001	<0.005 UJ	0.0015 J J	<0.005	<0.0005	<0.001	0 0008 J	<0 005	<0.005	<0.001	0 0055 J	0.00068 J	<0.005	0.0015	0.0029	0.0044
	ROST3MW-ROX-071315	7/13/2015		42 36	NE	0.02	<0 005	<0 00071 U	<0.005	0.00093 J	<0.005	<0.001	0.0052 J	0.0012 J	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0.0023	<0.025	<0.001	0.008	0 0029	<0.001	<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	<0 001	<0.005	<0.025	0.0016	<0.025	<0.001	0.0071	0 0018	<0.001	<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	<0 001	<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	<0.001	<0.025	<0 005	<0.005	0.00064 J
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	0 0042	<0 001	<0.005	<0.025	0.00055 J	<0.025	<0.001	0.0035	<0.001	<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		38.19	NE	0.036	<0 001	<0.005	<0.025	0.0021	<0.025	<0.001	0.0078	0 0031	<0.001	<0 001	<0.001	0 0016	<0 001	<0.001	<0.001	0 022	0.0032	<0.025	0 044	0.0083	0 053
	ROST3MW-ROX-011117	1/11/2017		37 50	NE	0 0058	<0 001	<0.005	<0.025	0.00089 J	<0.025	<0.001	0.0015	0 0014	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	0.0026	<0.001	<0.025	0 0016 J	<0.005	0 0021 J
	ROST3MW-ROX-041417	4/14/2017		38.16	NE	<0.001	<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	<0.001	<0.025	<0 005	<0.005	<0.01
	ROST3MW-ROX-071117	7/11/2017	37.81 - 47 81	36 61	NE	0.025	<0 001	<0.005	<0.025	0.0023	0.0079 J	<0.001	0.0059	0 0035	<0.001	<0 001	<0.001	0 0012	<0 001	<0.001	<0.001	0 018	0.0021	<0.025	0 022	0.0042 J	0 026
ROST-4-PZ(C)	ROST4PZC-ROX-100914	10/9/2014	34.95 - 44 95	41 30	NE	0 0688	<0 005	<0.005	<0.005	0 0011 J	<0.005	<0 001 UJ	0.0169	0.0011 J	<0.005	<0.0005	<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	<0.005	0.00036 J	<0.005	<0.001	<0 005	0 00056 J	<0.005	<0.0005	<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	<0.005	0.0013 J J	<0.005	<0.001	0.0146 J	0.0013 J J	<0.005	<0.0005	<0.001	0 0313	<0 005	<0.005	<0.001	0 0052 J	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	<0.005	0 0037 J	<0.005	<0.001	0.0806	0 0053	<0.005	<0.0005	<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	<0 001	<0.005	<0.025	0.0051	<0.025	<0.001	0.082	0 0059	<0.001	<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	<0 002	<0 01	<0.05	0.0044	<0 05	<0.002	0.071	0.006	<0.002	<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	<0 002	<0 01	<0.05	0.0073	<0 05	<0.002	0.12	0.01	<0.002	<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	<0 002	<0 01	<0.05	0.0089	<0 05	<0.002	0.1	0.012	<0.002	<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		38.45	NE	0.089	<0 002	<0 01	<0.05	0.0049	<0 05	<0.002	0.087	0 0074	<0.002	<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
	ROST4PZC-ROX-011217	1/12/2017		37 88	NE	0.061	<0 001	<0.005	<0.025	0.0064	<0.025	<0.001	0.081	0 0098	<0.001	<0 001	<0.001	0.017	<0 001	<0.001	0 00055 J	0 048	0.011	<0.025	0.13	0.0059	0.14
	ROST4PZC-ROX-041717	4/17/2017		38 24	NE	0.088	<0 002	<0 01	<0.05	0.0073	<0 05	<0.002	0.12	0.012	<0.002	<0 002	<0.002	0.028	<0 002	<0.002	<0.002	0 074	0.013	<0.05	0.3	0 007 J	0.31
	ROST4PZC-ROX-071217	7/12/2017	34.95 - 44 95	37 20	NE	0.13	<0 001	<0.005	<0.025	0.0064	<0.025	<0.001	0.098	0 0097	<0.001	<0 001	<0.001	0.017	<0 001	<0.001	<0.001	0 044	0.014	<0.025	0.24	0.0035 J	0.24

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						VOCs																				
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Ethylbenzene**	**Ethyl methacrylate**	**Hexachlorobutadiene**	**2-Hexanone (Methyl N-Butyl Ketone)**	**sopropylbenzene (Cumene)**	**4-Methyl-2-pentanone (Methyl Isobutyl Ketone)**	**Methyl tert-Butyl Ether (MTBE)**	**Naphthalene[4]**	**n-Propylbenzene**	**Styrene**	**1,1,2,2-Tetrachloroethane**	**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)							**0.007 [3]**	**0.035 [3]**	**0.7 [1]**	**0.56 [3]**	**0.07 [1]**	**0.14 [1]**	**0.7 [3]**	**0.1 [1]**	**0.00043 [3]**	**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]**	**0.42 [1]**
T-12	T12-ROX-101714	10/17/2014	46.718 - 72.718	44.40	NE	1.75	<0.05	<0 05	<0.05	0 0459 J	<0 05	<0.01	0.184 J	0 0707	<0.05	<0 005	<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	<0.05	0 0432 J	<0 05	0.0033 J	0.196	0 0745	<0.05	<0 005	<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	<0.005	0.0662	<0.005	<0.001	0.131 J	0.117	<0.005	<0.0005	<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	<0.05	0 0222 J	<0 05	<0.01	0.0798	0.0455 J	<0.05	<0 005	<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	<0.01	<0 05	<0.25	0 034	<0 25	<0.01	0.081	0.055	<0.01	<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	<0.01	<0 05	<0.25	0 015	<0 25	0 037	0.1	0.019	<0.01	<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	<0 005	<0.025	<0.13	0 015	<0.13	<0.005	0.064	0.021	<0.005	<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	<0.01	<0 05	<0.25	0 026	<0 25	<0.01	0.058	0.04	<0.01	<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		41.19	NE	0.12	<0.01	<0 05	<0.25	0 014	<0 25	0 023	0 09	0.022	<0.01	<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
	T12-ROX-011217	1/12/2017		40.70	NE	0.051	<0.01	<0 05	<0.25	0 012	<0 25	0 041	0.054	0.02	<0.01	<0.01	<0 01	0.065	<0.01	<0 01	<0.01	0 046	0 009 J	<0.25	0.22	0 008 J	0.23
	T12-ROX-040617	4/6/2017		41.18	NE	0.02	<0.01	<0 05	<0.25	0 0072 J	<0 25	0 029	0.016	0.012	<0.01	<0.01	<0 01	0.032	<0.01	<0 01	<0.01	0 015	<0 01	<0.25	0 066	<0 05	0.069 J
	T12-ROX-071317	7/13/2017	46.83 - 72 83	40.10	NE	0.053	<0.01	<0 05	<0.25	0 0064 J	<0 25	0 024	0.061	0.0091 J	<0.01	<0.01	<0 01	0.08	<0.01	<0 01	<0.01	0 033	<0 01	<0.25	0.2	<0 05	0.21

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
	Screening Values (mg/L)					0.21 [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]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]	0.7 [1]	0.14 [2]
MW-01	MW1-ROX-100614	10/6/2014	48 8 - 58 8	41.1	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW1-ROX-011215	1/12/2015		42.73	NE	0 00003 J	0.000027 J	<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	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.00011	<0.00011	<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	<0.00011	<0.00011	<0.0021	<0.0053	<0 011	0.00044 J
	MW1-ROX-070815	7/8/2015		43 35	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW1-ROX-100615	10/6/2015		40 83	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW1-ROX-010816	1/8/2016		40 93	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW1-ROX-041216	4/12/2016		40 35	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	0.011	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW1-ROX-071416	7/14/2016		39.43	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW1-ROX-101316	10/13/2016		38.79	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-1-ROX-011217	1/12/2017		38 35	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW1-ROX-041717	4/17/2017		38 58	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW1-ROX-071117	7/11/2017	48 8 - 58 8	37 24	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
MW-02	MW2-ROX-101014	10/10/2014	49.87 - 59 87	42.49	NE	<0 0001	<0.0001	<0.0001	<0 000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0 01	<0 0051	<0.0051	<0.002	<0.0051	<0.0001	<0 0001	<0.002	<0.0051	<0.01	<0 0051
	MW2-ROX-011615	1/16/2015		44.1	NE	0.00018	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0.00034 U
	MW2-ROX-041315	4/13/2015		45 56	NE	0.000041 J	<0.00011	<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	<0.00011	<0.00011	<0.0022	<0.0054	<0 011	<0.00045 U
	MW2-ROX-071315	7/13/2015		44 53	NE	0.000042 J	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	0.0028 J	<0 0054
	MW2-ROX-101215	10/12/2015		42.15	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW2-ROX-011416	1/14/2016		42 04	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW2-ROX-041316	4/13/2016		41 59	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW2-ROX-071416	7/14/2016		40.79	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW2-ROX101316	10/13/2016		40.10	NE	<0.00019	<0.00019	<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	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW2-ROX-011217	1/12/2017		39 58	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW2-ROX-041717	4/17/2017		39 69	NE	<0.00021	<0.00021	<0 00021	<0.00021	<0.00021	<0 00021	<0 00021	<0.00021	<0.031	<0 01	<0.01	<0.01	<0.0035 U	<0.01	<0.00021	<0.00021	<0 01	<0 01	<0 01	<0.01
	MW2-ROX-071217	7/12/2017	49.87 - 59 87	38 66	NE	<0.00039	<0.00039	<0 00039	<0.00039	<0.00039	<0 00039	<0 00039	<0.00039	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00039	<0 00039	<0.0097	<0.0097	<0.0097	<0 0097
MW-03	MW3-ROX-100914	10/9/2014	34.67 - 44 67	28.18	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0 0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0.00023 U
	MW3-ROX-011515	1/15/2015		29 65	NE	0.000027 J	<0.00011	0 000021 J J	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0 011	0 00028 J J
	MW3-ROX-041015	4/10/2015		31.16	NE	0.000018 J	<0.0001	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 0001	<0.0001	<0.0021	<0.0053	<0 011	0.00054 J
	MW3-ROX-071015	7/10/2015		30 01	NE	<0.00011	<0.00011	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	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0 0056
	MW3-ROX-100915	10/9/2015		27 98	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW3-ROX-010716	1/7/2016		27 92	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW3-ROX-040616	4/6/2016		27 07	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW3-ROX-070816	7/8/2016		26 51	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0.0002 UJ	<0 01	<0 01	<0.01	<0.01
	MW3-ROX100716	10/7/2016		25.79	NE	<0 0002	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW3-ROX-010617	1/6/2017		25 65	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028 UJ	<0.0093	<0 0093	<0.0093	<0.0093	<0 0093	<0.00019	<0 00019	<0.0093	<0.0093 UJ	<0.0093	<0 0093
	MW3-ROX-041117	4/11/2017		26.13	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW3-ROX-071217	7/12/2017	34.67 - 44 67	24 25	NE	<0 0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0004	<0 0004	<0.0099	<0.0099	<0.0099	<0 0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	SVOCs																			
						Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-04	MW4-ROX-101614	10/16/2014	46.06 - 56 06	39.49	NE	<0.00012	<0.00012	<0 00012	<0 000059	<0.00012	<0.000059	<0 00012	<0.00012	<0.012	<0.012	<0 0059	<0.0059	<0.0024	<0.0059	<0.00012	<0 00012	<0.0024	<0.0059	<0 012	<0 0059
	MW4-ROX-012115	1/21/2015		41 27	NE	0.000019 J	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	0 0011 J
	MW4-ROX-042115	4/21/2015	45.06 - 55 06	42 58	NE	0.000027 J	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW4-ROX-071415	7/14/2015		41 30	NE	0.000023 J	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW4-ROX-101915	10/19/2015		39.44	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-011316	1/13/2016		39.10	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-041916	4/19/2016		38 50	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-071416	7/14/2016		37 85	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-100616	10/6/2016		37.18	NE	<0 0002	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-010917	1/9/2017		36 84	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	0.013	<0.0097	<0.00019	<0.00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW4-ROX-041017	4/10/2017		37 08	NE	<0 0002	<0.0002	<0.0002	0 000047 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.031	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	0.000051 J	<0 01	<0 01	<0.01	<0.01
	MW4-ROX-071017	7/10/2017	45.06 - 55 06	35 68	NE	<0.00019	<0.00019	<0 00019	<0.00019	0.000039 J	0 000051 J	<0 00024 U	<0.00019	<0.029	<0.0096	<0 0096	<0.0096 UJ	0 039 J	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096
MW-05	MW-5-ROX-100914	10/9/2014	33.97 - 43 97	27.75	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0.00023 U
	MW5-ROX-011515	1/15/2015		29 34	NE	0.00012	<0.00011	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	0.000025 J J	0.000017 J J	<0.0021	<0.0053	<0 011	<0 0053
	MW5-ROX-041315	4/13/2015		30 97	NE	0.000073 J	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW5-ROX-071315	7/13/2015		29.45	NE	0.000062 J	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011	<0 0054
	MW5-ROX-101215	10/12/2015		27 53	NE	<0 0002	<0.0002	<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	0.000071 J	0.000078 J	<0 01	<0 01	<0 01	<0.01
	MW5-ROX-011416	1/14/2016		27.19	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW5-ROX-040616	4/6/2016		26 80	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW5-ROX-070816	7/8/2016		26 28	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0.0002 UJ	<0 01	<0 01	<0 01	<0.01
	MW5-ROX-101016	10/10/2016		25.47	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098 UJ	<0 0098 UJ	<0 0098
	MW5-ROX-010617	1/6/2017		25 33	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028 UJ	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0.00019	<0.0093	<0.0093 UJ	<0.0093	<0 0093
	MW5-ROX-041217	4/12/2017		25 69	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0.0096	<0.00019	<0.00019	<0.0096	<0.0096	<0.0096	<0 0096
	MW5-ROX-071217	7/12/2017	33.97 - 43 97	23 96	NE	<0 0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0004	<0 0004	<0 01	<0 01	<0.01	<0.01
MW-06A	MW6A-ROX-100814	10/8/2014	34.83 - 44 83	29 84	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW6A-ROX-011415	1/14/2015		31 54	NE	0.000089 J	0.00004 J	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	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW6A-ROX-040715	4/7/2015		33 08	NE	0.000061 J	0.000085 J	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	<0.0001	<0 0001	<0.002	<0.0051	<0 01	<0 0051
	MW6A-ROX-071515	7/15/2015		31 52	NE	0.00011	<0.00011	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	<0.00011	<0 00011	<0.0023	<0.0057	<0.011	<0 0057
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6A-ROX-011116	1/11/2016		29 36	NE	0 00017 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW6A-ROX-040716	4/7/2016		29 07	NE	0 00012 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW6A-ROX-071116	7/11/2016		28.45	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6A-ROX-101116	10/11/2016		27 51	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6A-ROX-011017	1/10/2017		27.43	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0.00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW6A-ROX-041217	4/12/2017		27 69	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0.0096	<0.00019	<0.00019	<0.0096	<0.0096	<0.0096	<0 0096
	MW6A-ROX-071117	7/11/2017	34.83 - 44 83	26.16	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0.0034 U	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-06B	MW6B-ROX-100814	10/8/2014	64.05 - 69 05	29 87	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW6B-ROX-011415	1/14/2015		31 59	NE	<0.00011	0.000016 J	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0 0054	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0 0054
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0 0001	0.000016 J	<0.0001	<0 000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0 01	<0 0051	<0.0051	<0.002	<0.0051	<0.0001	<0 0001	<0.002	<0.0051	<0 01	0.00029 J
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0 0001	0.000016 J	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW6B-ROX-071415	7/14/2015		31 56	NE	0.00012	0.000017 J	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW6B-ROX-100715	10/7/2015		29 80	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6B-ROX-011116	1/11/2016		29.41	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6B-ROX-040716	4/7/2016		29.11	NE	0 00005 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6B-ROX-071116	7/11/2016		28.49	NE	<0 0002	<0.0002	<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	0.00004 J	0.000069 J	<0 01	<0 01	<0.01	<0.01
	MW6B-ROX-101116	10/11/2016		27 56	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW6B-ROX-011017	1/10/2017		27.49	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	0.0025 J	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW6B-ROX-041217	4/12/2017		27.75	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW6B-ROX-071117	7/11/2017	64.05 - 69 05	26.18	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0 01 U	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
MW-06C	MW6C-ROX-100814	10/8/2014	84.95 - 89 95	29 67	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0 0056
	MW6C-ROX-011415	1/14/2015		31.41	NE	0.000017 J	<0.00011	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	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW6C-ROX-040915	4/9/2015		32 80	NE	<0.00011	<0.00011	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	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0 0054
	MW6C-ROX-071415	7/14/2015		31 38	NE	0.000027 J	0.00002 J	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011	<0 0054
	MW6C-ROX-100715	10/7/2015		29 60	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6C-ROX-010816	1/8/2016		29 31	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6C-ROX-040716	4/7/2016		28 91	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6C-ROX-071116	7/11/2016		28 30	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6C-ROX-101016	10/10/2016		27 37	NE	<0.00019	<0.00019	<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	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW6C-ROX-011017	1/10/2017		27 26	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0.00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW6C-ROX-041217	4/12/2017		27 56	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW6C-ROX-071117	7/11/2017	84.95 - 89 95	25 99	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0029 U	<0.0096	<0.00019	<0.00019	<0.0096	<0.0096	<0.0096	<0 0096
MW-06D	MW6D-ROX-100814	10/8/2014	104.72 - 109.72	29 53	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	0 016	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.0054	<0.011	<0 0054
	MW6D-ROX-100814-DUP	10/8/2014		29 53	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW6D-ROX-011415	1/14/2015		31 26	NE	<0.00011	<0.00011	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	<0.00011	<0.00011	<0.0022	<0.0054	<0.011	<0 0054
	MW6D-ROX-011415-DUP	1/14/2015		31 26	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	0 00027 J J
	MW6D-ROX-040715	4/7/2015		32.74	NE	0.000016 J	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-010816	1/8/2016		29 59	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-010816-DUP	1/8/2016		29 59	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-040716	4/7/2016		28.76	NE	0.000058 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-040716-DUP	4/7/2016		28.76	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-071116	7/11/2016		28.16	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	0.013	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-071116-DUP	7/11/2016		28.16	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW6D-ROX-101016	10/10/2016		27 26	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.0098 UJ	<0 0098 UJ	<0.01
	MW6D-ROX-101016-DUP	10/10/2016		27 26	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.0098 UJ	<0 0098 UJ	<0.01
	MW6D-ROX-011017	1/10/2017		27.14	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0.00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW6D-ROX-011017-DUP	1/10/2017		27.14	NE	<0.00019	<0.00019	<0 00019	0 000062 J	0.000057 J	0.00007 J	0.000075 J	0.000072 J	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0 0093	0.000068 J	0.000086 J	<0.0093	<0.0093	<0.0093	<0 0093
	MW6D-ROX-041217	4/12/2017		27.43	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0.0096	<0.00019	<0.00019	<0.0096	<0.0096	<0.0096	<0 0096
	MW6D-ROX-041217-DUP	4/12/2017		27.43	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW6D-ROX-071117	7/11/2017	104.72 - 109.72	25 83	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0 00016 J	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0022 U	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW6D-ROX-071117-DUP	7/11/2017	104.72 - 109.72	25 83	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
	Screening Values (mg/L)					0.21 [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]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]	0.7 [1]	0.14 [2]
MW-07	MW7-ROX-101614	10/16/2014	42.92 - 52 92	41 31	NE	0.00024	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0 0056
	MW7-ROX-101614-DUP	10/16/2014		41 31	NE	0.00022	<0.00011	<0 00011	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.011	<0.011	<0 0057	<0.0057	<0.0023	<0.0057	<0.00011	<0 00011	<0.0023	<0.0057	<0.011	<0 0057
	MW7-ROX-012215	1/22/2015		43.45	NE	0.00026	0.000051 J	0 000056 J 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	<0.000046 U	0.000025 J	<0.0021	<0.0053	0.00072 J	0.00035 J
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00025	0.000044 J	0 00046 J	<0 000052	<0.0001	<0.000052 UJ	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	0.00039 J	<0 0052	<0.000021 U	<0.0001	<0.0021	<0.0052	0.00071 J	0.00027 J
	MW7-ROX-042115	4/21/2015		44 63	NE	0.00038	0.000059 J	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	0.000022 J	<0.0001	0.00028 J	<0.0051	0.0014 J	<0 0051
	MW7-ROX-042115-DUP	4/21/2015		44 63	NE	0.00036	0.000053 J	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	0.000028 J	0.000016 J	<0.002	<0.0051	0.0012 J	<0 0051
	MW7-ROX-071515	7/15/2015		43 54	NE	0.00027	0.000038 J	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	0.000033 J	<0.0001	<0.002	<0.0051	<0 01	0.00063 J
	MW7-ROX-071515-DUP	7/15/2015		43 54	NE	0.00025	0.000043 J	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	0.000034 J	<0.0001	<0.0021	<0.0052	<0 01	0.00057 J
	MW7-ROX-101915	10/19/2015		41.43	NE	0 00012 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.0043 J	<0.01
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	0.0044 J	<0.01
	MW7-ROX-011416	1/14/2016		41 02	NE	0 00019 J	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	0.0035 J	<0.01
	MW7-ROX-011416-DUP	1/14/2016		41 02	NE	0.00023	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	0.0036 J	<0.01
	MW7-ROX-041916	4/19/2016		40 68	NE	0.00024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0 031	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.0048 J	<0.01
	MW7-ROX-041916-DUP	4/19/2016		40 68	NE	0.00021	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	0.0042 J	<0.01
	MW7-ROX-071416	7/14/2016		39 99	NE	0.00031	0.000058 J	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW7-ROX-071416-DUP	7/14/2016		39 99	NE	0.00023	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW7-ROX-100616	10/6/2016		39 24	NE	0 00017 J	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW7-ROX-100616-DUP	10/6/2016		39 24	NE	0 00016 J	<0.0002 UJ	<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	<0.0002	<0 0002	<0 01	<0 01	0.0038 J	<0.01
	MW7-ROX-010917	1/9/2017		38 90	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW7-ROX-041017	4/10/2017		38 92	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	0.015 J *	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0.00019	<0.0097	<0.0097	0.0051 J	<0 0097
	MW7-ROX-041017-DUP	4/10/2017		38 92	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	0.016 J *	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0.00019	<0.0097	<0.0097	0 005 J	<0 0097
	MW7 ROX-071117	7/11/2017	42.92 - 52 92	37.79	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0 0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW7 ROX-071117-DUP	7/11/2017	42.92 - 52 92	37.79	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0077 U	<0 0097	<0.00019	<0 00019	<0.0097	<0.0097	0.0038 J	<0 0097
MW-08	MW8-ROX-101614	10/16/2014	33 6 - 43 6	32 23	NE	0.00021	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0 0056	<0.00011	<0 00011	<0.0022	<0.0056	0.0099 J	<0 0056
	MW8-ROX-012215	1/22/2015		34 22	NE	0.00027	0.000073 J	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 0001	<0 0001	<0.0021	<0.0052	0.0172	0.00027 J
	MW8-ROX-042115	4/21/2015		35.41	NE	0.00018	0.000052 J	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	<0.00011	<0 00011	0.00045 J	<0.0053	0.0201	<0 0053
	MW8-ROX-071515	7/15/2015		34 07	NE	0.00018	<0.00011	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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW8-ROX-101915	10/19/2015		32 30	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.0065 J	<0.01
	MW8-ROX-011416	1/14/2016		31.79	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0 008 J	<0.01
	MW8-ROX-041916	4/19/2016		31.45	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.012	<0.01
	MW8-ROX-071416	7/14/2016		30 80	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW8-ROX-100616	10/6/2016		29 99	NE	<0 0002	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	0.0035 J	<0.01
	MW8-ROX-010917	1/9/2017		29.79	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	0 0083 J
	MW8-ROX-041017	4/10/2017		30 02	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.0061 J	<0.01
	MW8-ROX-071017	7/10/2017	33 6 - 43 6	28.48	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096 UJ	<0.0096	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	0.0067 J	<0 0096
MW-09	MW9-ROX-100714	10/7/2014	46.45 - 56.45	43 52	NE	<0.00012	<0.00012	<0 00012	<0 000059	<0.00012	<0.000059	<0 00012	<0.00012	<0.012	<0.012	<0 0059	<0.0059	<0.0024	<0 0059	<0.00012	<0 00012	<0.0024	<0.0059	<0 012	<0 0059
	MW9-ROX-011315	1/13/2015		44 21	NE	<0 0001	<0.0001	<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	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	0.00023 J
	MW9-ROX-040915	4/9/2015		45 38	NE	0 00002 J	<0.0001	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 0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW9-ROX-070915	7/9/2015		44 81	NE	<0.00011	<0.00011	<0 00011	<0 000055	<0.00011	<0.000055	<0 00011	<0.00011	<0.011	<0.011	<0 0055	<0.0055	<0.0022	<0 0055	<0.00011	<0 00011	<0.0022	<0.0055	<0.011	0.00042 J
	MW9-ROX-100815	10/8/2015		42 64	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW9-ROX-011316	1/13/2016		42 63	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW9-ROX-041216	4/12/2016		41 98	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW9-ROX-071316	7/13/2016		40 93	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW9-ROX-101316	10/13/2016		40 39	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW9-ROX-011117	1/11/2017		40 06	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.005 U	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW9-ROX-041417	4/14/2017		40 67	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096
	MW9-ROX-071217	7/12/2017	46.45 - 56.45	38 86	NE	<0.00038	<0.00038	<0 00038	<0.00038	<0.00038	<0 00038	<0 00038	<0.00038	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0 0096	<0.00038	<0 00038	<0.0096	<0.0096	<0.0096	<0 0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-10	MW10-ROX-100714	10/7/2014	44.43 - 54.43	43 58	NE	<0.00011	<0.00011	<0 00011	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.011	<0.011	<0 0057	<0.0057	<0.0023	<0.0057	<0.00011	<0 00011	<0.0023	<0.0057	<0 011	<0 0057
	MW10-ROX-011315	1/13/2015		44 27	NE	<0.00011	<0.00011	<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	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW10-ROX-040815	4/8/2015		45 30	NE	<0 0001	<0.0001	<0.0001	<0 000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0 01	<0 0051	<0.0051	<0.002	<0.0051	<0.0001	<0 0001	<0.002	<0.0051	<0.01	<0 0051
	MW10-ROX-070915	7/9/2015		44 93	NE	0.000023 J	<0.00011	0.000039 J	0 000035 J	0.000022 J	0 000028 J	0.000027 J	0.000041 J J	<0.011	<0.011	<0 0054	<0.0054	0.00045 J	0.00028 J	0.000045 J	0 00002 J	<0.0022	<0.0054	<0 011	0.00064 J
	MW10-ROX-100915	10/9/2015		42.79	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW10-ROX-011316	1/13/2016		42 53	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW10-ROX-041116	4/11/2016		41 88	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW10-ROX-071316	7/13/2016		41 00	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW10-ROX-101216	10/12/2016		40 27	NE	<0.00021	<0.00021	<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	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.011
	MW10-ROX-011117	1/11/2017		39 88	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW10-ROX-041417	4/14/2017		40 50	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	0.0025 J	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW10-ROX-071117	7/11/2017		38 86	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
MW-11	MW11-ROX-100714	10/7/2014	41.66 - 51 66	40 89	NE	<0 0001	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW11-ROX-011315	1/13/2015		41 93	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0 0054
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	MW11-ROX-100815	10/8/2015		40.15	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW11-ROX-011216	1/12/2016		40 33	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW11-ROX-041116	4/11/2016		39.49	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW11-ROX-071316	7/13/2016		38 59	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	0.011	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW11-ROX-101216	10/12/2016		37 93	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW11-ROX-011117	1/11/2017		37 63	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	0.0045 J	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW11-ROX-041417	4/14/2017		38.17	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0095	<0 0095	<0.0095	0.0027 J	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW11-ROX-071017	7/10/2017	41.66 - 51 66	36 39	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0 01 UJ	0.003 J J	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
MW-12	MW12-ROX-100614	10/6/2014	41.92 - 51 92	40 98	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW12-ROX-011215	1/12/2015		42 33	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	0.00023 J
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW12-ROX-070815	7/8/2015		42 86	NE	0.000018 J	<0.00011	<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	0.00008 J	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW12-ROX-100815	10/8/2015		40 54	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-100815-DUP	10/8/2015		40 54	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-011116	1/11/2016		40 98	NE	<0 0002	<0.0002	<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	0.00028	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-040716	4/7/2016		39 82	NE	0.000069 J	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-071216	7/12/2016		38 89	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-101116	10/11/2016		38 85	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-010917	1/9/2017		38.11	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	0.0028 J	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW12-ROX-041417	4/14/2017		38 50	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-12-ROX-07072017	7/7/2017	41.92 - 51 92	36 84	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-13	MW13-ROX-101014	10/10/2014	25.57 - 35 57	27.48	NE	<0.00012	0 00019	<0 00012	<0.00006	<0.00012	<0 00006	<0 00012	<0.00012	<0.012	<0.012	<0.006	<0 006	<0.0024	<0 006	<0.00012	<0.00012	<0.0024	<0.006	<0.012	<0.006
	MW13-ROX-011615	1/16/2015		29 09	NE	0.00014	0.00009 J	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	0.00003 J	<0.00011	<0.0021	<0.0053	<0.011	<0.00034 U
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.00011	0.000075 J	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	<0.00011	<0 00011	<0.0022	<0.0056	0.0013 J	<0 0056
	MW13-ROX-070815	7/8/2015		29.16	NE	0.000089 J	0.000057 J	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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW13-ROX-100515	10/5/2015		27 34	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW13-ROX-010716	1/7/2016		27.16	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW13-ROX-040816	4/8/2016		26 81	NE	0 00015 J	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW13-ROX-071116	7/11/2016		26 01	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW13-ROX100716	10/7/2016		25.16	NE	<0 0002	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW13-ROX-010617	1/6/2017		25 54	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.01 UJ	<0.01	<0.01
	MW13-ROX-041317	4/13/2017		25.75	NE	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0 001	<0.001	<0 01	<0 01	<0 01	<0.01
	MW13-ROX-070717	7/7/2017	25.57 - 35 57	23 64	NE	<0.00095	<0.00095	<0 00095	<0.00095	<0.00095	<0 00095	<0 00095	<0.00095	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00095	<0 00095	<0.0095	<0.0095	<0.0095	<0 0095
MW-14	MW14-ROX-101414	10/14/2014	33.42 - 43.42	31 65	NE	0.00054	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0.00056 U
	MW14-ROX-011615	1/16/2015		33 58	NE	0.00027	0.00006 J	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	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	MW14-ROX-041415	4/14/2015		35.16	NE	0.00026	0.000057 J	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	<0.00011	<0 00011	<0.0021	<0.0052	<0 01	<0 0052
	MW14-ROX-070915	7/9/2015		34 06	NE	0 0002	0.000051 J	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	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	0.00044 J
	MW14-ROX-101315	10/13/2015		31 88	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-14-ROX-010816	1/8/2016		31 64	NE	0 00015 J	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW14-ROX-041416	4/14/2016		31 32	NE	0.000074 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW14-ROX-071116	7/11/2016		30 59	NE	0.000059 J	0.00002 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW14-ROX-101416	10/14/2016		29 62	NE	0.000054 J *	<0.00019	<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	<0.00019	<0.00019	<0.0095 UJ	<0.0095 UJ	<0 0095 UJ	<0.0095 UJ
	MW14-ROX-011117	1/11/2017		29 61	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	0.0039 J	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW14-ROX-041317	4/13/2017		29 54	NE	0.000025 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	0.0022 J	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW14-ROX-070717	7/7/2017	33.42 - 43.42	28 28	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	0.000042 J	<0.0095	<0.0095	<0.0095	<0 0095
MW-16	MW16-ROX-100714	10/7/2014	37.06 - 47 06	42 27	NE	<0.00012	<0.00012	<0 00012	<0.00006	<0.00012	<0 00006	<0 00012	<0.00012	<0.012	<0.012	<0.006	<0 006	<0.0024	<0 006	<0.00012	<0.00012	<0.0024	<0.006	<0 012	<0.006
	MW16-ROX-011315	1/13/2015		43 59	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW16-ROX-040915	4/9/2015		44 87	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	MW16-ROX-070915	7/9/2015		44 26	NE	0.000026 J	0.00002 J	<0 00011	<0 000055	<0.00011	<0.000055	<0 00011	<0.00011	<0.011	<0.011	<0 0055	<0.0055	<0.0022	<0 0055	<0.00011	<0 00011	<0.0022	<0.0055	<0.011	0.00043 J
	MW16-ROX-070915-DUP	7/9/2015		44 26	NE	<0.00011	<0.00011	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	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0 0056
	MW16-ROX-100715	10/7/2015		41 83	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW16-ROX-011216	1/12/2016		41 99	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW16-ROX-040816	4/8/2016		41.17	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW16-ROX-071216	7/12/2016		39 93	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW16-ROX-101116	10/11/2016		39 64	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW16-ROX-010917	1/9/2017		39.15	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW16-ROX-041417	4/14/2017		39.45	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW16-ROX-071017	7/10/2017	37.06 - 47 06	38.16	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096 UJ	<0.0096	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-22	MW22-ROX-101014	10/10/2014	37.88 - 47 88	41.43	NE	0.00029	0 00019	0.00019	<0 000063	<0.00013	<0.000063	<0 00013	<0.00013	<0.013	<0.013	<0 063	<0.063	<0.0025	<0.0063	<0.00013	<0 00013	<0.0025	<0.0063	<0.013	<0 0063
	MW22-ROX-011615	1/16/2015		42.19	NE	0.00015	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	0.0329	<0 0053
	MW22-ROX-041415	4/14/2015		43.71	NE	0.00014	<0.0001	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	<0.0001	<0 0001	<0.0021	<0.0052	0.0143	<0 0052
	MW22-ROX-071515	7/15/2015		42 64	NE	0.00013	0.000028 J	<0 00011	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.057	<0.057	<0.029	<0 029	<0.011	<0 029	<0.00011	<0.00011	<0.011	<0.029	<0.057	<0.029
	MW22-ROX-101415	10/14/2015		40 54	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.015	<0.01
	MW22-ROX-011516	1/15/2016		40.42	NE	<0.002	<0 002	<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	<0 002	<0.002	<0 01	<0 01	0.021	<0.01
	MW22-ROX-011516-DUP	1/15/2016		40.42	NE	<0.002	<0 002	<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	<0 002	<0.002	<0 01	<0 01	0.019	<0.01
	MW22-ROX-041316	4/13/2016		39 56	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.01 UJ	0.0041 J H J	0 035 H J	<0 01 UJ
	MW22-ROX-041316-DUP	4/13/2016		39 56	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	0.0031 J	0.037	<0.01
	MW22-ROX-071516	7/15/2016		38 97	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	0.0055 J J	0.0071 J	<0.01
	MW22-ROX-071516-DUP	7/15/2016		38 97	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW22-ROX-101716	10/17/2016		38.17	NE	<0.00098	<0.00098	<0 00098	<0.00098	<0.00098	<0 00098	<0 00098	<0.00098	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.00098	<0 00098	<0.0098	<0.0098	0.035	<0 0098
	MW22-ROX-101716-DUP	10/17/2016		38.17	NE	<0.00098	<0.00098	<0 00098	<0.00098	<0.00098	<0 00098	<0 00098	<0.00098	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.00098	<0 00098	<0.0098	<0.0098	0.042	<0 0098
	MW22-ROX-011217	1/12/2017		37 80	NE	<0.00093	<0.00093	<0 00093	<0.00093	<0.00093	<0 00093	<0 00093	<0.00093	0 028 *	<0.0093	<0 0093	<0.0093	0.0024 J	<0.0093	<0.00093	<0 00093	<0.0093	<0.0093	<0.0093	<0 0093
	MW22-ROX-011217-DUP	1/12/2017		37 80	NE	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	0 031 *	<0 01	<0.01	<0.01	<0 01	<0.01	<0 001	<0.001	<0 01	<0 01	<0 01	<0.01
	MW22-ROX-041717	4/17/2017		38 24	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0 0095	<0.00019	<0 00019	<0.0095	<0.0095	0.0046 J	<0 0095
	MW22-ROX-041717-DUP	4/17/2017		38 24	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	0.0053 J	<0 0096
	MW22-ROX-071217	7/12/2017	37.88 - 47 88	36 83	NE	<0.00041	<0.00041	<0 00041	<0.00041	<0.00041	<0 00041	<0 00041	<0.00041	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.00041	<0.00041	<0 01	<0 01	<0.01	<0.01
	MW22-ROX-071217-DUP	7/12/2017	37.88 - 47 88	36 83	NE	<0 0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0 01	<0.01	<0.01	<0.01 UJ	<0 01 UJ	<0.0004	<0 0004	<0 01	<0 01	0.0069 J	<0.01
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39 02	30 90	NE	<0.001	<0 001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0 005	<0.005	<0 005	<0.0002	<0 0002	<0.005	<0.005	<0.005	<0.005
	MW23-ROX-040815	4/8/2015		32 24	NE	0.000076 J	<0.0001	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	0.000028 J	<0.0001	<0.002	<0.0051	<0 01	<0 0051
	MW23-ROX-071015-BP	7/10/2015		30 54	NE	0.000036 J	<0.00011	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	0.000018 J	<0 00011	<0.0022	<0.0056	<0.011	<0 0056
	MW23-ROX-100515	10/5/2015		28 89	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-23-ROX-010716	1/7/2016		28.78	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-23-ROX-040616	4/6/2016		27 96	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-23-ROX-070816	7/8/2016		27 54	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW23-ROX-BP-100716	10/7/2016		26 64	NE	<0 0002	<0.0002 UJ	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW23-ROX-011017	1/10/2017		26 83	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	0 0089 J	<0.0096	<0 0096	<0.0096	<0.0096	<0 0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	0.004 J
	MW23-ROX-041117	4/11/2017		27 54	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW23-ROX-071017	7/10/2017	29.02 - 39 02	25.13	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095 UJ	0 003 J	<0 0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
MW-24	MW24-ROX-100814	10/8/2014	38.89 - 48 89	42.16	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0 0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	MW24-ROX-011315	1/13/2015		43.17	NE	0.000074 J	0.000077 J	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	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	0.00023 J
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW24-ROX-070915	7/9/2015		44 65	NE	<0 0001	<0.0001	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	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW24-ROX-100715	10/7/2015		41.45	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW24-ROX-011316	1/13/2016		41.44	NE	<0 0002	<0.0002	<0.0002	0 000078 J	0.000059 J	0.00006 J	0 000067 J J	0.000096 J	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	0.000092 J	0.000081 J	<0 01	<0 01	<0 01	<0.01
	MW24-ROX-040816	4/8/2016		40.79	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW24-ROX-071216	7/12/2016		39 67	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW24-ROX-101116	10/11/2016		39.19	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW24-ROX-010917	1/9/2017		38 97	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW24-ROX-041717	4/17/2017		39.42	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW-24-ROX-07072017	7/7/2017	38.89 - 48 89	37 68	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0099	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45 59	36.44	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0056	0.0025 J	<0 0056
	MW25-ROX-012215	1/22/2015		38.45	NE	<0 0001	<0.0001	<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	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	0.00028 J
	MW25-ROX-042115	4/21/2015		39.71	NE	0.000032 J	<0.0001	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	<0.0001	<0 0001	<0.002	<0.0051	<0 01	<0 0051
	MW25-ROX-071515	7/15/2015		38.40	NE	0.000036 J	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW25-ROX-101915	10/19/2015		36 55	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW25-ROX-011416	1/14/2016		36.12	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW25-ROX-041916	4/19/2016		35 67	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.0002 UJ	<0.0002 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	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ
	MW25-ROX-100616	10/6/2016		34 27	NE	<0 0002	<0.0002 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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW25-ROX-011117	1/11/2017		34 00	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	0.0034 J	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	MW25-ROX-041117	4/11/2017		34 31	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW25-ROX-071017	7/10/2017	35.59 - 45 59	32.75	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029 UJ	<0 0096 UJ	<0.0096 UJ	<0.0096 UJ	<0 0096 UJ	<0.0096 UJ	<0.00019	<0.00019	<0.0096 UJ	<0.0096 UJ	<0 0096 UJ	<0.0096 UJ
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW26-ROX-011215	1/12/2015		41 09	NE	<0 0001	<0.0001	<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	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW26-ROX-040815	4/8/2015		42 52	NE	<0 0001	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW26-ROX-100615	10/6/2015		39.19	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW26-ROX-010716	1/7/2016		39 55	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW26-ROX-040616	4/6/2016		38.44	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW26-ROX-071216	7/12/2016		37.74	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW26-ROX-101016	10/10/2016		37.13	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW26-ROX-010617	1/6/2017		36.74	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028 UJ	<0.0093	<0 0093	<0.0093	<0.0093	<0 0093	<0.00019	<0 00019	<0.0093	<0.0093 UJ	<0.0093	<0 0093
	MW26-ROX-041417	4/14/2017		36 91	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-26-ROX-07072017	7/7/2017	38.15 - 48.15	35 61	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.004 U	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41 57	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	MW27-ROX-011515	1/15/2015		42 06	NE	<0.00011	<0.00011	<0 00011	<0 000053	0.0001 J J	0.00013 J	0 000029 J J	0.000078 J J	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	0 000051 J J	<0.0021	<0 00029 U	<0 011	0 00026 J J
	MW27-ROX-041015	4/10/2015		43 22	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0 0054
	MW27-ROX-071015	7/10/2015		43 00	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0 0056	<0.00011	<0 00011	<0.0022	<0.0056	<0 011	<0 0056
	MW27-ROX-100815	10/8/2015		40 32	NE	<0 0002	<0.0002	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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	MW27-ROX-011316	1/13/2016		40 68	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW27-ROX-041116	4/11/2016		39.73	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW-27-ROX-071316	7/13/2016		38 94	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW27-ROX-101216	10/12/2016		38 50	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW27-ROX-011117	1/11/2017		38 05	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0 00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW27-ROX-041417	4/14/2017		38.72	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	MW27-ROX-071017	7/10/2017	39.79 - 49.79	37 23	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099 UJ	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
Screening Values (mg/L)						0.21 [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]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]	0.7 [1]	0.14 [2]
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43 61	36.44	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	0.00026 J
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0055	0.0012 J	0 00033 J J
	MW28-ROX-041415	4/14/2015		42 34	NE	<0.00011	<0.00011	<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	<0.00011	<0.00011	<0.0023	<0.0057	<0.011	<0 0057
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	<0 0056
	MW28-ROX-101215	10/12/2015		40 04	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW28-ROX-101215-DUP	10/12/2015		40 04	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW28-ROX-011416	1/14/2016		39 98	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW28-ROX-041216	4/12/2016		39 20	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW28-ROX-071416	7/14/2016		38.49	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	MW28-ROX-101316	10/13/2016		37 86	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	MW28-ROX-011217	1/12/2017		37.14	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	0.014 J *	<0.0093	<0 0093	<0.0093	<0.0093	<0.0093	<0.00019	<0.00019	<0.0093	<0.0093	<0.0093	<0 0093
	MW28-ROX-041717	4/17/2017		38 05	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
	MW28-ROX-071217	7/12/2017	33.61 - 43 61	36.48	NE	<0 0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0004	<0 0004	<0.0099	<0.0099	<0.0099	<0 0099
P-54	P54-ROX-100814	10/8/2014	38 - 63	40 88	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0 011	<0 0056
	P54-ROX-011415	1/14/2015		41.79	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0 011	<0 0056
	P54-ROX-041015	4/10/2015		43 20	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	P54-ROX-070915	7/9/2015		42 25	NE	<0 0001	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	P54-ROX-100915	10/9/2015		40 20	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P54-ROX-011216	1/12/2016		40 22	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P54-ROX-041216	4/12/2016		39.42	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P54-ROX-071216	7/12/2016		38.44	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P54-ROX-101216	10/12/2016		37 85	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P54-ROX-010917	1/9/2017		37 80	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P54-ROX-041717	4/17/2017		38 30	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0.0027 U	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P54-ROX-071017	7/10/2017	38 - 63	36 35	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099 UJ	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
P-56	P56-ROX-101314	10/13/2014	40.82 - 65 82	45 05	NE	0.00057	0 00011	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	<0.00011	<0.00011	0 00055 J	<0.0054	<0.011	<0.00035 U
	P56-ROX-011915	1/19/2015		46 58	NE	0.00068	0.000079 J	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	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	<0 0054
	P56-ROX-041515	4/15/2015		48 05	NE	0.00061	0 0001 J	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	<0.00011	<0.00011	0 00055 J	<0.0054	0.0026 J	<0 0054
	P56-ROX-071015	7/10/2015		47 34	NE	0.00065	0.000095 J	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	<0 0053
	P56-ROX-101415	10/14/2015		44 85	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P56-ROX-011116	1/11/2016		44.78	NE	0.00057	0.000092 J	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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P56-ROX-041416	4/14/2016		43.73	NE	0.00069	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	0 00054 J	<0 01	<0 01	<0.01
	P56-ROX-071216	7/12/2016		42 87	NE	0.00026	<0.0002	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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P56-ROX-101716	10/17/2016		42 35	NE	0.00043	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P56-ROX-011217	1/12/2017		42 01	NE	0.00061	0 0001 J	0 00007 J	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	P56-ROX-040617	4/6/2017		42.46	NE	0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	0 0027 J * J	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P56-ROX-071217	7/12/2017	40.82 - 65 82	41.11	NE	<0.00041	<0.00041	<0 00041	<0.00041	<0.00041	<0 00041	<0 00041	<0.00041	<0.031	<0 01	<0.01	<0.01	<0 01	<0.01	<0.00041	<0.00041	<0 01	<0 01	<0.01	<0.01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
				Screening Values (mg/L)		0.21 [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]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]	0.7 [1]	0.14 [2]
P-57	P57-ROX-101414-DUP	10/14/2014	40.46 - 65.46	45 00	NE	0 0003	<0.00012	<0 00012	<0 000058	<0.00012	<0.000058	<0 00012	<0.00012	<0.012	<0.012	<0 0058	<0.0058	<0.0023	<0.0058	<0.00012	<0 00012	<0.0023	<0.0058	<0.012	<0.00082 U
	P57-ROX-101414	10/14/2014		45 00	NE	0.00036	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0.00086 U
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47 52	NE	0.00059	0 00014	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	<0.00011	<0.00011	0.0013 J	<0.0053	<0.011	0.00039 J
	P57-ROX-042015	4/20/2015		48.73	NE	0.00054	0 00012	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	<0.0001	<0 0001	0.0011 J	<0.0052	<0 01	0.00037 J
	P57-ROX-071315	7/13/2015		47 81	NE	0.00049	0 0001 J	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0.011	0.00044 J
	P57-ROX-101515	10/15/2015		45 56	NE	0.00029	<0.0002	<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	<0.0002	<0 0002	0 00067 J	<0 01	<0.01	<0.01
	P57-ROX-011216	1/12/2016		45 61	NE	0 00046 J	0.00022 J	<0.001	<0 001	<0 001	<0.001	<0.001	<0 001	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0 001	<0.001	0.001 J	<0 01	<0.01	<0.01
	P57-ROX-041816	4/18/2016		44 80	NE	0 00028 H J	<0.0002 UJ	<0.0002 UJ	0.000041 J H 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	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ
	P57-ROX-071316	7/13/2016		44 02	NE	0 00041 J	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.03	<0 01	<0.01	<0.01	0.038	<0.01	<0 001	<0.001	<0 01	<0 01	<0.01	<0.01
	P57-ROX-101816	10/18/2016		43.17	NE	0.00058	0.00013 J	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	<0.0002	<0 0002	0 00054 J	<0.01 UJ	<0 01	<0.01
	P57-ROX-011617	1/16/2017		42 82	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P57-ROX-040717	4/7/2017		43 05	NE	0 00025 J	<0 001	<0.001	0.00023 J	<0 001	<0.001	<0.001	<0 001	<0.029 UJ	<0 0097 UJ	<0.0097 UJ	<0.0097 UJ	<0 0097 UJ	<0.0097 UJ	<0 001	<0.001	<0.0097 UJ	<0.0097 UJ	<0 0097 UJ	<0.0097 UJ
	P57-ROX-071317	7/13/2017	44.19 - 54.19	41 95	NE	0.00056	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0 03 UJ	<0.0099	<0 0099	<0.0099	<0.0041 U	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	0.025	<0 0099
P-58	P58-ROX-101514	10/15/2014	40 214 - 65 214	43.14	NE	0.00058	0 00023	<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 00018	<0.00011	0 0022	<0.0054	<0.011	<0 0054
	P58-ROX-012315	1/23/2015		45 32	NE	0 0006	0 00018	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	0.000032 J	<0 00011	0.0019 J	<0.0053	<0 011	0.00038 J
	P58-ROX-042015	4/20/2015		46 67	NE	0.00064	0 00017	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	0.000095 J	<0.0001	0.002 J	<0.0052	<0 01	0.00028 J
	P58-ROX-071415	7/14/2015		45 54	NE	0.00059	0 00018	<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 00015	<0.00011	0.002 J	<0.0055	<0.011	0.00081 J
	P58-ROX-101615	10/16/2015		43.45	NE	0.00021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	0 00059 J	<0 01	<0 01	<0.01
	P58-ROX-011316	1/13/2016		43.18	NE	0.00069	0 00022	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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P58-ROX-041816	4/18/2016		42 68	NE	0 00081 H J	<0.0002 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	0.00015 J H J	<0.0002 UJ	0.0018 J H J	<0.01 UJ	<0.01 UJ	<0 01 UJ
	P58-ROX-071516	7/15/2016		42 05	NE	0 0003	0.00013 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	0.004 J
	P58-ROX-101816	10/18/2016		41 05	NE	0 00051 J	0.00021 J	<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	<0.00098	<0 00098	0.0014 J	<0.0098 UJ	<0.0098	<0 0098
	P58-ROX-011617	1/16/2017		40.73	NE	<0.00095	<0.00095	<0 00095	<0.00095	<0.00095	<0 00095	<0 00095	<0.00095	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00095	<0 00095	0.0015 J	0.0013 J	<0.0095	<0 0095
	P58-ROX-041117	4/11/2017		40.74	NE	0 00063 J	0.00017 J	<0 00095	<0.00095	<0.00095	<0 00095	<0 00095	<0.00095	<0.028	<0.0095	<0 0095	<0.0095	<0.0095	<0 0095	0.00027 J	<0 00095	0.0013 J	<0.0095	<0.0095	<0 0095
	P58-ROX-071317	7/13/2017	40 214 - 65 214	39 88	NE	0 00058 H J	<0 00039 UJ	<0.00039 UJ	<0.00039 UJ	0.000083 J H J	<0.00039 UJ	<0.00039 UJ	<0 00039 UJ	<0 03 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ	<0.01 UJ	<0 01 UJ	<0 00039 UJ	<0.00039 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ
P-59	P59-ROX-101414	10/14/2014	47 911 - 72 911	46.18	NE	0 00045 J	<0.00054	<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	<0.00054	<0 00054	<0.0022	<0.0054	0.0492	<0.00042 U
	P59-ROX-011915	1/19/2015		47.42	NE	0.00075	0 00013	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	0.000047 J	<0.00011	<0.0022	<0.0054	0.153	<0 0054
	P59-ROX-041615	4/16/2015		48 83	NE	0.00031	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	0.165	<0 0054
	P59-ROX-071315	7/13/2015		47 85	NE	0.00058	<0.00011	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 00013	<0.00011	<0.0022	<0.0054	0.113	<0 0054
	P59-ROX-101515	10/15/2015		45.75	NE	<0.002	<0 002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.077	<0.01
	P59-ROX-011216	1/12/2016		46.10	NE	0 00036 J	0.00019 J	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	<0 001	<0.001	<0 01	<0 01	0.0095 J	<0.01
	P59-ROX-041816	4/18/2016		44 28	NE	<0.0002 UJ	0.00013 J J	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	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	0.01 J	<0 01 UJ
	P59-ROX-071316	7/13/2016		44 01	NE	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0 001	<0.001	<0 01	<0 01	0.063	<0.01
	P59-ROX-101816	10/18/2016		43 39	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0.0098	<0.0098 UJ	0.045	<0 0098
	P59-ROX-011617	1/16/2017		42 83	NE	<0.00099	<0.00099	<0 00099	<0.00099	<0.00099	<0 00099	<0 00099	<0.00099	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.00099	<0 00099	<0.0099	<0.0099	<0.0099	<0 0099
	P59-ROX-040717	4/7/2017		43 31	NE	0 00017 J	<0.00095	<0 00095	<0.00095	<0.00095	<0 00095	<0 00095	<0.00095	<0.029 UJ	<0 0097 UJ	<0.0097 UJ	<0.0097 UJ	0 0063 J H J	<0.0097 UJ	<0.00095	<0.00095	<0.0097 UJ	<0.0097 UJ	0 012 H J	<0.0097 UJ
	P59-ROX-071317	7/13/2017	47 911 - 72 911	42.16	NE	0.00042	<0.0002	<0.0002	<0.0002	0.000051 J	0 000051 J	<0.0002	<0.0002	<0 03 UJ	<0 01	<0.01	<0.01	<0.014 U	<0.01	0.000056 J	<0 0002	<0 01	<0 01	0.012	<0.01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	2,4-Dimethylphenol	Di-n-butyl phthalate
	Screening Values (mg/L)					0.21 [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]	0.012 [1]	0.0003 [1]	0.007 [3]	5.6 [1]	0.14 [2]	0.7 [1]	0.14 [2]
P-66	P66-ROX-101414	10/14/2014	34.72 - 59.72	34.48	NE	0.00045	0 00018	<0 00011	<0 000055	<0.00011	<0.000055	<0 00011	<0.00011	<0.011	<0.011	<0 0055	<0.0055	<0.0022	<0.0055	<0.00011	<0 00011	0.0012 J	<0.0055	<0.011	<0.00066 U
	P66-ROX-011615	1/16/2015		36 62	NE	0.00067	0 00026	0 000065 J J	0.00003 J J	<0 00011 UJ	<0.000053 UJ	<0 00011	<0 00011 UJ	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	0.000029 J J	<0.00011	<0.0021	<0.0053	<0.011	<0.00022 U
	P66-ROX-011615-DUP	1/16/2015		36 62	NE	0.00068	0 00027	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	0.00032 J	0.000062 J	<0.0022	<0.0054	<0.011	<0 0054
	P66-ROX-041415	4/14/2015		38 27	NE	0 0006	0 00022	<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	0.000024 J	<0.00011	0.0016 J	<0.0054	<0.011	<0 0054
	P66-ROX-041415-DUP	4/14/2015		38 27	NE	0.00066	0 00021	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	<0.00011	<0.00011	0.0016 J	<0.0053	<0.011	<0 0053
	P66-ROX-070815	7/8/2015		37 24	NE	0.00054	0 00017	<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	<0.00011	<0.00011	0.001 J	<0.0053	<0.011	<0 0053
	P66-ROX-070815-DUP	7/8/2015		37 24	NE	0.00051	0 00021	<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	0.000017 J	<0.00011	0.0011 J	<0.0053	<0.011	<0 0053
	P66-ROX-101315	10/13/2015		34 84	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P-66-ROX-010816	1/8/2016		34 64	NE	0.00071	0 00022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	0.0012 J	<0 01	<0 01	<0.01
	P66-ROX-041516	4/15/2016		34 33	NE	0.00039	<0.0002	<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	<0.0002	<0 0002	0.0014 J	<0 01	<0.01	<0.01
	P66-ROX-071116	7/11/2016		33 58	NE	0.0006 J	0.00028 J	<0.001	<0 001	<0 001	<0.001	<0.001	<0 001	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0 001	<0.001	<0 01	0.0019 J	<0.01	<0.01
	P66-ROX-101416	10/14/2016		32 61	NE	0 001 *	<0.00095	<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	<0.00095	<0.00095	<0.0095 UJ	<0.0095 UJ	<0 0095 UJ	<0.0095 UJ
	P66-ROX-011117	1/11/2017		32.41	NE	<0.00097	<0.00097	<0 00097	<0.00097	<0.00097	<0 00097	<0 00097	<0.00097	<0.029	<0.0097	<0 0097	<0.0097	0.0026 J	<0.0097	<0.00097	<0 00097	<0.0097	<0.0097	<0.0097	<0 0097
	P66-ROX-041317	4/13/2017		32.19	NE	0.00041	0.00014 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P66-ROX-071217	7/12/2017	34.72 - 59.72	31 38	NE	<0 0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.03	<0 01	<0.01	<0.01	0.0045 J	<0.01	<0.0004	<0 0004	<0 01	<0 01	<0 01	<0.01
P-74	P74-ROX-101414	10/14/2014	44.427 - 69.427	41.48	NE	<0 0001	<0.0001	<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	<0.0001	<0 0001	<0.002	<0.005	<0.01	<0 0019 U
	P74-ROX-011915	1/19/2015		43.47	NE	0.00018	0.000061 J	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	<0.00011	<0 00011	<0.0021	<0.0053	0 02	<0 0053
	P74-ROX-041515	4/15/2015		44 61	NE	<0 0001	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	P74-ROX-071015	7/10/2015		43 28	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	P74-ROX-101415	10/14/2015		41.75	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.021	<0.01
	P74-ROX-011116	1/11/2016		40 67	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P74-ROX-041516	4/15/2016		40.40	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P74-ROX-071216	7/12/2016		39 56	NE	0.000042 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P74-ROX-101416	10/14/2016		39.44	NE	0.000064 J *	<0.00019	<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	<0.00019	<0.00019	<0.0095 UJ	<0.0095 UJ	<0 0095 UJ	<0.0095 UJ
	P74-ROX-011217	1/12/2017		38 64	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.011 J *	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P74-ROX-040717	4/7/2017		38 92	NE	<0.00022	<0.00022	<0 00022	<0.00022	<0.00022	<0 00022	<0 00022	<0.00022	<0.031 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ	<0.01 UJ	<0 01 UJ	<0.00022	<0.00022	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ
	P74-ROX-071217	7/12/2017	44.427 - 69.427	38 08	NE	0.000038 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.0099	<0 0099	<0.0099	<0.0099	<0.0099	<0.0002	<0 0002	<0.0099	<0.0099	<0.0099	<0 0099
P-93A	P93A-ROX-101514	10/15/2014	48.166 - 63.166	45 06	NE	0 0002	<0.0001	<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	<0.0001	<0 0001	0.0003 J	<0.0052	<0 01	0.00024 J
	P93A-ROX-101514-DUP	10/15/2014		45 06	NE	0 00022 J	<0 00011 UJ	<0.00011 UJ	<0.000054 UJ	<0 00011 UJ	<0.000054 UJ	<0.00011 UJ	<0 00011 UJ	<0.011 UJ	<0.011 UJ	<0.0054 UJ	0.0044 J J	<0 0041 UJ	<0.0054 UJ	<0 00011 UJ	<0.00011 UJ	0.00033 J J	<0.0054 UJ	<0.011 UJ	0 00046 J J
	P93A-ROX-012715	1/27/2015	43.07 - 53 07	46 05	NE	<0.001	<0 001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0 005	<0.005	<0 005	<0.0002	<0 0002	<0.005	<0.005	<0.005	<0.005
	P93A-ROX-041715	4/17/2015		47 02	NE	0.00011	<0.00011	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	<0.00011	<0.00011	0 00029 J	<0.0053	<0.011	<0 0053
	P93A-ROX-071315	7/13/2015		45 93	NE	0.00011	0.000029 J	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 0001	<0.0001	<0.0021	<0.0052	<0 01	0.00064 J
	P93A-ROX-101515	10/15/2015		43 69	NE	0.000079 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P93A-ROX-101515-DUP	10/15/2015		43 69	NE	0 00008 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P-93A-ROX-011216	1/12/2016		43.73	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P-93A-ROX-011216-DUP	1/12/2016		43.73	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93A-ROX-041916	4/19/2016		43 08	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93A-ROX-041916-DUP	4/19/2016		43 08	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93A-ROX-071316	7/13/2016		42 20	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93A-ROX-071316-DUP	7/13/2016		42 20	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93A-ROX-101816	10/18/2016		41 35	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.01 UJ	<0.01	<0.01
	P93A-ROX-101816-DUP	10/18/2016		41 35	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.01 UJ	<0.01	<0.01
	P93A-ROX-011217	1/12/2017		41 04	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	0.0028 J	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P93A-ROX-011217-DUP	1/12/2017		41 04	NE	<0.00021	<0.00021	<0 00021	<0.00021	<0.00021	<0 00021	<0 00021	<0.00021	<0.032	<0.011	<0.011	<0 011	<0.011	<0 011	<0.00021	<0.00021	<0.011	<0.011	<0 011	<0.011
	P93A-ROX-040717	4/7/2017		41 26	NE	<0.00019	<0.00019	<0 00019	0.00014 J	0.00012 J	0.00015 J	0 0002	0.00015 J	<0.029 UJ	<0 0095 UJ	<0.0095 UJ	<0.0095 UJ	<0 0095 UJ	<0.0095 UJ	0.00013 J	0.00019	<0.0095 UJ	<0.0095 UJ	<0 0095 UJ	<0.0095 UJ
	P93A-ROX-040717-DUP	4/7/2017		41 26	NE	<0.00021	<0.00021	<0 00021	0 000044 J	<0.00021	0 000053 J	<0 00021	<0.00021	<0.032 UJ	<0.011 UJ	<0 011 UJ	<0.011 UJ	<0 011 UJ	<0.011 UJ	<0.00021	<0.00021	<0 011 UJ	<0 011 UJ	<0.011 UJ	<0.011 UJ
	P93A-ROX-071317	7/13/2017	43.07 - 53 07	40.11	NE	<0.00037	<0.00037	<0 00037	<0.00037	<0.00037	<0 00037	<0 00037	<0.00037	<0.056 UJ	<0.019	<0.019	<0 019	<0.0094 U	<0 019	<0.00037	<0 00037	<0.019	<0.019	<0.019	<0.019

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
P-93B	P93B-ROX-101514	10/15/2014	74 6 - 76 6	45.15	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	0.00024 J
	P93B-ROX-012315	1/23/2015		47 24	NE	<0.00011	<0.00011	<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	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	0.00025 J
	P93B-ROX-012315-DUP	1/23/2015		47 24	NE	0.000019 J	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	0.00031 J
	P93B-ROX-021915	2/19/2015		47 24	NE																				
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	0.00099 J	<0 0053
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	0.00084 J	<0 0053
	P93B-ROX-070915	7/9/2015		47.74	NE	<0 0001	<0.0001	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	0.000017 J	<0 0001	<0.002	<0.0051	0.0009 J	<0 0051
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	0.000062 J	0.00004 J	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	0.000016 J	<0.0001	<0.002	<0.0051	0.00082 J	<0 0051
	P93B-ROX-101515	10/15/2015		45.18	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93B-ROX-011316	1/13/2016		44 96	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93B-ROX-041916	4/19/2016		44 54	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93B-ROX-071516	7/15/2016		43 65	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93B-ROX-101816	10/18/2016		42.73	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.01 UJ	<0 01	<0.01
	P93B-ROX-011017	1/10/2017		42.41	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93B-ROX-011017-DUP	1/10/2017		42.41	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P93B-ROX-040617	4/6/2017		42 59	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	0 0044 J * J	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0 0095
	P93B-ROX-07117	7/11/2017	74 6 - 76 6	41 59	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	P93B-ROX-07117-DUP	7/11/2017	74 6 - 76 6	41 59	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0052 U	<0.0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096
P-93C	P93C-ROX-101514	10/15/2014	94 255 - 96 255	44 99	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0 00011	<0.0022	<0.0056	<0 011	<0 0056
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48 22	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	P93C-ROX-021915	2/19/2015		48 22	NE																				
	P93C-ROX-041615	4/16/2015		48 22	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	P93C-ROX-071315	7/13/2015		47 09	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0 011	<0 0054
	P93C-ROX-101415	10/14/2015		44 91	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93C-ROX-010816	1/8/2016		44 68	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93C-ROX-041816	4/18/2016		44 06	NE	<0.0002 UJ	<0.0002 UJ	0 000025 J 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	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0 01 UJ
	P93C-ROX-071216	7/12/2016		43 37	NE	<0 0002	<0.0002	<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	<0.0002	0.000048 J	<0 01	<0 01	<0 01	<0.01
	P93C-ROX-101816	10/18/2016		42.49	NE	<0.00019	<0.00019	<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	<0.00019	<0 00019	<0.0095	<0.0095 UJ	<0.0095	<0 0095
	P93C-ROX-011117	1/11/2017		42 20	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0 0089 J	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	P93C-ROX-040517	4/5/2017		42.19	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	0.000048 J	<0.0095	<0.0095	<0.0095	<0 0095
	P93C-ROX-071217	7/12/2017	92.47 - 97.47	41 30	NE	<0.00039	<0.00039	<0 00039	<0.00039	<0.00039	<0 00039	<0 00039	<0.00039	<0.03	<0.0098	<0 0098	<0.0098	0.0042 J	<0.0098	<0.00039	<0 00039	<0.0098	<0.0098	<0.0098	<0 0098
P-93D	P93D-ROX-101514	10/15/2014	125.75 - 127.75	45.14	NE	<0.00011	<0.00011	<0 00011	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	<0.011	0.00031 J
	P93D-ROX-110414	11/4/2014		45.14	NE																				
	P93D-ROX-012315	1/23/2015		42 28	NE	<0.00011	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0 00011	<0.0021	<0.0053	<0 011	<0 0053
	P93D-ROX-021915	2/19/2015		42 28	NE																				
	P93D-ROX-042015	4/20/2015		48 52	NE	<0 0001	<0.0001	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	0.000021 J	<0.0001	<0.0021	<0.0052	<0 01	<0 0052
	P93D-ROX-070915	7/9/2015		47 96	NE	<0 0001	<0.0001	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	0.000016 J	<0 0001	<0.002	<0.0051	<0 01	<0 0051
	P93D-ROX-101515	10/15/2015		45 28	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93D-ROX-011316	1/13/2016		45.10	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93D-ROX-041916	4/19/2016		44 61	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93D-ROX-071516	7/15/2016		43 83	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P93D-ROX-101716	10/17/2016		42.78	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	P93D-ROX-011017	1/10/2017		42 59	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0.0097	<0.00019	<0 00019	<0.0097	<0.0097	<0.0097	<0 0097
	P93D-ROX-040617	4/6/2017		42 80	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	P93D-ROX-07117	7/11/2017	125.75 - 127.75	41 64	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0087 U	<0.0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
P-114	P114-ROX-101714	10/17/2014	32 672 - 52 672	29.43	NE	0.000078 J	<0.00011	<0 00011	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.011	<0.011	<0 0057	<0.0057	<0.0023	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011	<0 0057
	P114-ROX-012115	1/21/2015		31 53	NE	0.00019	<0.00011	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	<0.00011	<0.00011	<0.0022	<0.0056	<0.011	0.00091 J
	P114-ROX-041715	4/17/2015		NM	NE	0.00021	0.000044 J	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	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	0.00031 J
	P114-ROX-070815	7/8/2015		29.16	NE	0 0002	<0.0001	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	<0.0001	<0 0001	<0.002	<0.005	<0 01	<0.005
	P114R-ROX-100515	10/5/2015	23.01 - 33 01	28.15	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P114R-ROX-010716	1/7/2016	-			<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01	<0.01
	P114R-ROX-040816	4/8/2016				<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P114R-ROX-070816	7/8/2016				<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.15	<0 05	<0.05	<0.05	<0 05	<0.05	<0.0002	<0 0002	<0 05	<0 05	<0.05	<0.05
P-114R	P114R-ROX-100716	10/7/2016	23.01 - 33 01	23 89	NE	<0.00019	<0 00019 UJ	<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	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0 0095
	P114R-ROX-010617	1/6/2017		24 81	NE	<0 0002	<0.0002	<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	<0.0002	<0 0002	<0 01	<0.01 UJ	<0.01	<0.01
	P114R-ROX-041317	4/13/2017		25 05	NE	<0 0002	<0.0002	0.000062 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	0.0042 J	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	P114R-ROX-071117	7/11/2017	23.01 - 33 01	22.45	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0034 U	<0.0096	<0.00019	<0 00019	<0.0096	<0.0096	<0.0096	<0 0096
ROST-3-MW	ROST3MW-ROX-100914	10/9/2014	37.81 - 47 81	41 31	NE	<0.00011	<0.00011	<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	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0.00026 U
	ROST3MW-ROX-011515	1/15/2015		41 83	NE	0.000027 J	<0.00011	0 000019 J J	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.011	<0.011	<0 0057	<0.0057	<0.0023	<0.0057	<0.00011	<0.00011	<0.0023	<0.0057	<0.011	0 00045 J J
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.000028 J	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	<0 01	<0 0052
	ROST3MW-ROX-071315	7/13/2015		42 36	NE	0.000037 J	<0.00011	<0 00011	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.0053	<0.011	<0 0053
	ROST3MW-ROX-101215	10/12/2015		40 29	NE	0.000081 J	<0.0002	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	0.000095 J	0.000094 J	<0 01	<0 01	<0 01	<0.01
	ROST3MW-ROX-011416	1/14/2016		40 30	NE	<0 0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	ROST3MW-ROX-041216	4/12/2016		39 69	NE	0 00017 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0.0002 UJ	<0 01	<0 01	<0 01	<0.01
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	0.000079 J	<0.0002	<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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	ROST3MW-ROX-101316	10/13/2016		38.19	NE	0 00013 J	0.000023 J	<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	<0.0002	<0 0002	<0.0098	<0.0098	<0.0098	<0 0098
	ROST3MW-ROX-011117	1/11/2017		37 50	NE	0.00034	0.00008 J	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0093	<0 0093	<0.0093	<0.0093	<0 0093	<0.00019	<0 00019	<0.0093	0 00068 J	<0.0093	<0 0093
	ROST3MW-ROX-041417	4/14/2017		38.16	NE	0.00027	0.000039 J	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0095	<0 0095	<0.0095	<0.0095	<0 0095	<0.00019	<0 00019	<0.0095	<0.0095	<0.0095	<0 0095
	ROST3MW-ROX-071117	7/11/2017	37.81 - 47 81	36 61	NE	0 00016 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0.0024 U	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
ROST-4-PZ(C)	ROST4PZC-ROX-100914	10/9/2014	34.95 - 44 95	41 30	NE	<0.00011	<0.00011	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0 0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	<0.00032 U
	ROST4PZC-ROX-011515	1/15/2015		41 65	NE	<0.00011	<0.00011	<0 00011	<0 000057	<0.00011	<0.000057	<0 00011	<0.00011	<0.011	<0.011	<0 0057	<0.0057	0.0042	<0 0057	<0.00011	<0 00011	<0.0023	<0.0057	<0.011	0.0003 J J
	ROST4PZC-ROX-041315	4/13/2015		43 00	NE	<0 0001	<0.0001	0.000018 J	<0 000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0 01	<0 0051	<0.0051	<0.002	<0.0051	<0.0001	<0 0001	<0.002	<0.0051	0.0013 J	<0 0051
	ROST4PZ-ROX-071315	7/13/2015		42 59	NE	0.000093 J	<0.0001	<0.0001	<0 000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0 01	<0 0052	<0.0052	<0.0021	<0.0052	<0.0001	<0 0001	<0.0021	<0.0052	0.0028 J	<0 0052
	ROST4PZC-ROX-101215	10/12/2015		40 35	NE	0 00019 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	ROST4PZC-ROX-011516	1/15/2016		40 54	NE	0 00046 J	<0 002	<0.002	<0.002	<0 002	<0.002	<0.002	<0 002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0 002	<0.002	<0 01	<0 01	0.0046 J	<0.01
	ROST4PZC-ROX-041316	4/13/2016		39 61	NE	0.00051	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0.0072 J	<0.01
	ROST4PZC-ROX-071516	7/15/2016		38 93	NE	0.00025	0.000041 J	<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 0002	<0.0002	<0 01	0.0014 J J	0.013	<0.01
	ROST4PZC-ROX-101316	10/13/2016		38.45	NE	0.00099	0 0001 J	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	<0.00019	<0 00019	0.00083 J	0 00074 J	<0.0096	<0 0096
	ROST4PZC-ROX-011217	1/12/2017		37 88	NE	0 0014	0 00019	0.00021	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.028	<0.0094	<0 0094	<0.0094	<0.0094	<0 0094	<0.00019	<0 00019	0 00077 J	0 00084 J	<0.0094	<0 0094
	ROST4PZC-ROX-041717	4/17/2017		38 24	NE	0 0012	0.00016 J	0 00017 J	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0097	<0 0097	<0.0097	<0.0097	<0 0097	<0.00019	<0 00019	<0.0097	0 00075 J	<0.0097	<0 0097
	ROST4PZC-ROX-071217	7/12/2017	34.95 - 44 95	37 20	NE	0.00024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0 03 UJ	<0.01 UJ	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	<0.01 UJ	<0.01

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Acenaphthene**	**Acenaphthylene**	**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**	**Chrysene (1,2-Benzphenanthracene)**	**Dibenzo(a,h)anthracene**	**Dibenzofuran**	**Diethyl phthalate**	**2,4-Dimethylphenol**	**Di-n-butyl phthalate**
Screening Values (mg/L)						**0.21** [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]	**0.012** [1]	**0.0003** [1]	**0.007** [3]	**5.6** [1]	**0.14** [2]	**0.7** [1]	**0.14** [2]
T-12	T12-ROX-101714	10/17/2014	46.718 - 72.718	44.40	NE	0.00036	0.000072 J	<0 00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0 0056	<0.00011	<0 00011	<0.0022	<0.0056	<0.011	0.00061 J
	T12-ROX-011915	1/19/2015	46.83 - 72 83	45 27	NE	0.00039	0.000064 J	0.00013	<0 000053	<0.00011	<0.000053	<0 00011	<0.00011	<0.011	<0.011	<0 0053	<0.0053	<0.0021	<0 0053	<0.00011	<0 00011	<0.0021	<0.0053	0.0069 J	<0 0053
	T12-ROX-041515	4/15/2015		46.73	NE	0.00036	0.000065 J	0.00011	<0 000056	<0.00011	<0.000056	<0 00011	<0.00011	<0.011	<0.011	<0 0056	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	0 00033 J	0.00036 J J	0.0044 J	0.00033 J
	T12-ROX-071015	7/10/2015		46 09	NE	0.00034	<0.00011	0.00015	<0 000054	<0.00011	<0.000054	<0 00011	<0.00011	<0.011	<0.011	<0 0054	<0.0054	<0.0022	<0.0054	<0.00011	<0 00011	<0.0022	<0.0054	0.0041 J	<0 0054
	T12-ROX-101515	10/15/2015		43.72	NE	0.00022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0 01	<0.01	<0.01	<0 01	<0.01	<0.0002	<0 0002	<0 01	<0 01	0 004 J	<0.01
	T12-ROX-011216	1/12/2016		44.13	NE	0.00042	<0.0004	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	<0.0004	<0 0004	<0 01	<0 01	<0 01	<0.01
	T12-ROX-041516	4/15/2016		42 07	NE	0.00037	0.000062 J	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	<0.0002	<0 0002	<0 01	<0 01	0.0037 J	<0.01
	T12-ROX-071216	7/12/2016		41 50	NE	0.00035	0.000053 J	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	<0.0002	<0 0002	<0 01	<0 01	<0 01	<0.01
	T12-ROX-101716	10/17/2016		41.19	NE	0.00038	0.000067 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	0 02	<0 0098
	T12-ROX-011217	1/12/2017		40.70	NE	0.00046	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.029	<0.0098	<0 0098	<0.0098	<0.0098	<0.0098	<0.0002	<0 0002	<0.0098	<0.0098	0.0047 J	<0 0098
	T12-ROX-040617	4/6/2017		41.18	NE	<0.00019	<0.00019	<0 00019	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029	<0.0096	<0 0096	<0.0096	<0.0096	<0.0096	<0.00019	<0.00019	<0.0096	<0.0096	<0.0096	0 0038 J
	T12-ROX-071317	7/13/2017	46.83 - 72 83	40.10	NE	0.00046	<0.00019	0 00014 J	<0.00019	<0.00019	<0 00019	<0 00019	<0.00019	<0.029 UJ	<0.0095	<0 0095	<0.0095	<0.0095	<0.0095	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	0 0035 J

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CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-01	MW1-ROX-100614	10/6/2014	48 8 - 58 8	41.1	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW1-ROX-011215	1/12/2015		42.73	NE	<0 0053	<0.021	0.000017 J	0.000027 J		<0.00011	<0 00003 U	<0.000036 U	<0.011	<0.011	<0 0053	<0 011	<0.011	0.00003 J	<0.0053	<0.00011	<0.011 UJ
	MW1-ROX-040615	4/6/2015		44.11	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.000018 J	0.000035 J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW1-ROX-070815	7/8/2015		43 35	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.000038 J	0.000066 J	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000022 J	<0.0053	<0.00011	<0.011
	MW1-ROX-100615	10/6/2015		40 83	NE	0.00056 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000057 J	0.000096 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000062 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 00005 J	0.000068 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW1-ROX-071416	7/14/2016		39.43	NE	<0.00086 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW1-ROX-101316	10/13/2016		38.79	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000033 J	0.000041 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW-1-ROX-011217	1/12/2017		38 35	NE	0.00048 J B	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW1-ROX-041717	4/17/2017		38 58	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW1-ROX-071117	7/11/2017	48 8 - 58 8	37 24	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000041 J	0.000063 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
MW-02	MW2-ROX-101014	10/10/2014	49.87 - 59 87	42.49	NE	<0 0051	<0 02	<0.0001	<0.0001		<0.0001	0.01	0.0214	<0 01	<0.01	<0.0051	<0 01	<0.01	<0.000051	<0.0051	<0 0001	<0 01
	MW2-ROX-011615	1/16/2015		44.1	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0 0108	0.0236	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000025 J	<0.0053	<0.00011	<0.011
	MW2-ROX-041315	4/13/2015		45 56	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0 0124	0.0253	<0.011	0 00066 J	<0 0054	<0 011	<0.011	0 000023 J	<0.0054	<0.00011	<0.011
	MW2-ROX-071315	7/13/2015		44 53	NE	<0 0054	<0.022	<0 00011	0.000036 J		<0.00011	0 0129	0.0283	<0.011	<0.011	<0 0054	<0 011	<0.011	0.000027 JB J	<0.0054	<0.00011	<0.011
	MW2-ROX-101215	10/12/2015		42.15	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.01	0 017	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.011	0 013	<0 01	0.001 J	<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	0.0082 J	<0.0002	<0.0002	<0.01	<0.0002	0 0093	0.0065	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW2-ROX-071416	7/14/2016		40.79	NE	<0.00089 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 0068	0 014	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW2-ROX101316	10/13/2016		40.10	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0 0088	0.0095	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	MW2-ROX-011217	1/12/2017		39 58	NE	0.00091 J B	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	0.013	0.0074	<0.0093	<0.019	<0.0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW2-ROX-041717	4/17/2017		39 69	NE	<0.01	<0.031	<0 00021	<0.00021	<0.01	<0.00021	0.012	0.02	<0 01	<0.021	<0.01	<0 01	0.0019 J	<0 00021	<0.01	<0.00021	<0 01
	MW2-ROX-071217	7/12/2017	49.87 - 59 87	38 66	NE	0.00048 J	<0.029	<0 00039	<0.00039	<0 0097	<0.00039	0.01	0.0057	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00039	<0.0097	<0.00039	<0.0097
MW-03	MW3-ROX-100914	10/9/2014	34.67 - 44 67	28.18	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-011515	1/15/2015		29 65	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0 00033 J	0 0003 J	<0.011	<0.011	<0 0056	<0 011	<0.011	0.000018 J J	<0.0056	<0.00011	<0.011
	MW3-ROX-041015	4/10/2015		31.16	NE	<0 0053	<0.021	0 000024 J J	<0.0001		<0.0001	0 00013 J	0.000097 J	<0.011	<0.011	<0 0053	<0 011	<0.011	0.000026 JB J	<0.0053	0.000018 J	<0 01
	MW3-ROX-071015	7/10/2015		30 01	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0 00028 JB	0.00026 JB	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-100915	10/9/2015		27 98	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00035	0.00029	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00053	0.00045	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00082	0.00068	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW3-ROX-070816	7/8/2016		26 51	NE	<0 0013 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00044	0.00029	<0 01	<0.02	<0.01	<0.01	0.0018 J H	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW3-ROX100716	10/7/2016		25.79	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00041	0.00022	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW3-ROX-010617	1/6/2017		25 65	NE	0.00058 J	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	0 0016	0.00081	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW3-ROX-041117	4/11/2017		26.13	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0.00097	0.00057	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	MW3-ROX-071217	7/12/2017	34.67 - 44 67	24 25	NE	0.00055 J	<0 03	<0.0004	<0.0004	<0 0099	<0.0004	0.00094	0.00067	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0004	<0.0099	<0 0004	<0.0099

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-04	MW4-ROX-101614	10/16/2014	46.06 - 56 06	39.49	NE	<0 0059	<0.024	<0 00012	<0.00012		<0.00012	<0.0024	<0 0024	<0.012	<0.012	<0.0059	<0 012	<0.012	0 000029 J	0.0115	<0.00012	<0.012 UJ
	MW4-ROX-012115	1/21/2015		41 27	NE	<0 0053	<0.021	<0.000018 U	<0.00011		<0.00011	0 00012 JB	<0.00011 U	<0.011	<0.011	<0.0053	<0.011	<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	<0.021	0.000018 J	<0.0001		<0.0001	0 00024 J	0.00021 J	<0 01	<0.01	<0 0052	<0.01	<0 01	0.00002 J	<0.0052	0.000018 J	<0 01
	MW4-ROX-071415	7/14/2015		41 30	NE	<0 0056	<0.022	<0 00011	0.000018 J		<0.00011	0 00032 J	0 00035 JB J	<0.011	<0.011	<0 0056	<0 011	<0.011	0 000018 JB	<0.0056	<0.00011	<0.011
	MW4-ROX-101915	10/19/2015		39.44	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00017 J	0.00013 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00028	0.0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 00015 J	0.000089 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW4-ROX-071416	7/14/2016		37 85	NE	<0.00072 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00015 J	0.000069 J	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW4-ROX-100616	10/6/2016		37.18	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00016 J	0.000069 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW4-ROX-010917	1/9/2017		36 84	NE	<0.00064 U	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0.000066 J	<0.00019	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	MW4-ROX-041017	4/10/2017		37 08	NE	<0.01	<0.031	0.000036 J	<0.0002	<0.01	0.000041 J	0.000088 J	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	0.000038 J	<0 01
	MW4-ROX-071017	7/10/2017	45.06 - 55 06	35 68	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	0.000095 J	0 00018 J	0.000029 J	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
MW-05	MW-5-ROX-100914	10/9/2014	33.97 - 43 97	27.75	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0 00099 J	<0 0022	<0.011	<0.011	<0 0054	<0 011	<0.011	<0 00003 U	0.00072 J	<0.00011	<0.011
	MW5-ROX-011515	1/15/2015		29 34	NE	<0 0053	<0.021	0 000037 J J	<0.00011		0.000023 J J	0 00071 J	<0 0021	<0.011	<0.011	<0 0053	<0 011	<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	<0.021	<0 00011	<0.00011		<0.00011	0 000099 JB J	0.000031 JB J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW5-ROX-071315	7/13/2015		29.45	NE	<0 0054	<0.022	<0 00011	0.000026 J		<0.00011	0 000087 JB J	0 00018 JB J	<0.011	<0.011	<0 0054	<0 011	<0.011	0.000024 JB J	<0.0054	<0.00011	<0.011
	MW5-ROX-101215	10/12/2015		27 53	NE	<0.01	<0 03	0.000055 J	<0.0002	<0.01	0.000086 J	0 00016 J	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00034	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW5-ROX-070816	7/8/2016		26 28	NE	<0.001 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW5-ROX-101016	10/10/2016		25.47	NE	<0 0098	<0.029 UJ	<0.0002	<0.0002	<0 0098	<0.0002	0 00012 J	0.000041 J	<0 0098 UJ	<0.02 UJ	<0 0098	<0 0098 UJ	<0.02 UJ	<0.0002	<0.0098 UJ	<0 0002	<0.0098
	MW5-ROX-010617	1/6/2017		25 33	NE	0.00067 J	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	0.00063	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW5-ROX-041217	4/12/2017		25 69	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW5-ROX-071217	7/12/2017	33.97 - 43 97	23 96	NE	<0.01	<0 03	<0.0004	<0.0004	<0.01	<0.0004	0 00013 J	<0 0004	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0004	<0.01	<0 0004	<0 01
MW-06A	MW6A-ROX-100814	10/8/2014	34.83 - 44 83	29 84	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6A-ROX-011415	1/14/2015		31 54	NE	<0 0053	<0.021	0 000037 J J	0.000076 J		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0.011	<0.011	0.000046 J	<0.0053	0.000027 J	<0.011
	MW6A-ROX-040715	4/7/2015		33 08	NE	<0 0051	<0 02	<0.0001	<0.0001		<0.0001	0.000019 J	0.000023 J	<0 01	<0.01	<0.0051	<0.01	<0.01	<0.000051	<0.0051	<0 0001	<0 01
	MW6A-ROX-071515	7/15/2015		31 52	NE	<0 0057	<0.023	<0 00011	0.000058 J		<0.00011	0.000056 J	0.000076 JB J	<0.011	<0.011	<0.0057	<0 011	<0.011	0 000026 J	<0.0057	<0.00011	<0.011
	MW6A-ROX-100715	10/7/2015		29.77	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000036 J	0.000047 J	<0 01	<0.02	<0.01	<0 01	<0.02	0 00005 J	<0.01	<0 0002	<0 01
	MW6A-ROX-071116	7/11/2016		28.45	NE	0.00086 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW6A-ROX-101116	10/11/2016		27 51	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW6A-ROX-011017	1/10/2017		27.43	NE	<0.00066 U	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW6A-ROX-041217	4/12/2017		27 69	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW6A-ROX-071117	7/11/2017	34.83 - 44 83	26.16	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000023 J	0.000024 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-06B	MW6B-ROX-100814	10/8/2014	64.05 - 69 05	29 87	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6B-ROX-011415	1/14/2015		31 59	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	0.000017 J	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0 0051	<0 02	<0.0001	<0.0001		<0.0001	<0.002	<0.002	<0 01	<0.01	<0.0051	<0 01	<0.01	<0.000051	<0.0051	<0 0001	<0 01
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	<0.0021	<0 0021	<0 01	<0.01	<0.0052	<0 01	<0.01	<0.000052	<0.0052	<0 0001	<0 01
	MW6B-ROX-071415	7/14/2015		31 56	NE	<0 0053	<0.021	<0 00011	0.00013		<0.00011	0 0036	0.0068	<0.011	<0.011	<0 0053	<0 011	<0.011	0.000045 JB J	<0.0053	<0.00011	<0.011
	MW6B-ROX-100715	10/7/2015		29 80	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000059 J	0.000088 J J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000029 J	0.000067 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000045 J	0.000088 J	<0 01	<0.02	<0.01	<0 01	<0.02	0.000079 J	<0.01	<0 0002	<0 01
	MW6B-ROX-071116	7/11/2016		28.49	NE	0.00055 J	<0 03	<0.0002	<0.0002	<0.01	0.00011 J	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW6B-ROX-101116	10/11/2016		27 56	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000038 J	0.00006 J	<0.01 UJ	<0.02 UJ	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW6B-ROX-011017	1/10/2017		27.49	NE	<0.00051 U	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW6B-ROX-041217	4/12/2017		27.75	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW6B-ROX-071117	7/11/2017	64.05 - 69 05	26.18	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0.000037 J	0.000071 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0 0099 UJ
MW-06C	MW6C-ROX-100814	10/8/2014	84.95 - 89 95	29 67	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0 0056	<0.022	0 000022 J J	<0.00011		<0.00011	<0.0022	0.000028 J	<0.011	<0.011	<0.0056	<0.011	<0.011	0 000025 J	<0.0056	0.000021 J	<0.011
	MW6C-ROX-040915	4/9/2015		32 80	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	0.000025 JB J	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-071415	7/14/2015		31 38	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0 000064 JB J	0 00014 JB J	<0.011	<0.011	<0.0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-100715	10/7/2015		29 60	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000056 J	0.000083 J J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 00003 J	0.000055 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW6C-ROX-071116	7/11/2016		28 30	NE	0.00059 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000043 J	0.000047 J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW6C-ROX-101016	10/10/2016		27 37	NE	<0.0095 UJ	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	0.000049 J	0.000077 J	<0.0095	<0 019 UJ	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW6C-ROX-011017	1/10/2017		27 26	NE	<0.00049 U	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW6C-ROX-041217	4/12/2017		27 56	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW6C-ROX-071117	7/11/2017	84.95 - 89 95	25 99	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	0.000034 J	0.000056 J	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0 0096 UJ
MW-06D	MW6D-ROX-100814	10/8/2014	104.72 - 109.72	29 53	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW6D-ROX-100814-DUP	10/8/2014		29 53	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0 0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6D-ROX-011415	1/14/2015		31 26	NE	<0 0054	<0.022	0 000031 J J	0.000018 J		<0.00011	0.000015 J	0.000033 J	<0.011	<0.011	<0 0054	<0 011	<0.011	0 000033 J	<0.0054	0.000027 J	<0.011
	MW6D-ROX-011415-DUP	1/14/2015		31 26	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0 0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	0.000026 J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0.00011 JB J	0 00023 JB J	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-100715	10/7/2015		29.45	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000081 J	0 00012 J J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	0.00005 J	<0.01	<0.0002	0.000051 J	0 0001 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000034 J	0.000064 J	<0 01	<0.02	<0.01	<0 01	<0 02	0 000045 J	<0.01	<0 0002	<0 01
	MW6D-ROX-071116	7/11/2016		28.16	NE	0.00079 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000045 J	0.000051 J	<0 01	<0.02	<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	0.00082 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW6D-ROX-101016	10/10/2016		27 26	NE	<0.01	<0.029 UJ	<0.0002	<0.0002	<0.01	<0.0002	0.000032 J	0.000058 J	<0 0098 UJ	<0.02 UJ	<0.01	<0 0098 UJ	<0.02 UJ	<0.0002	<0.0098 UJ	<0 0002	<0 01
	MW6D-ROX-101016-DUP	10/10/2016		27 26	NE	<0.01	<0.029 UJ	<0.0002	<0.0002	<0.01	<0.0002	0.000038 J	0.000064 J	<0 0098 UJ	<0.02 UJ	<0.01	<0 0098 UJ	<0.02 UJ	<0.0002	<0.0098 UJ	<0 0002	<0 01
	MW6D-ROX-011017	1/10/2017		27.14	NE	<0 0093	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW6D-ROX-011017-DUP	1/10/2017		27.14	NE	<0.00075 U	<0.028	<0 00019	<0.00019	<0 0093	0.00009 J	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW6D-ROX-041217	4/12/2017		27.43	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW6D-ROX-041217-DUP	4/12/2017		27.43	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW6D-ROX-071117	7/11/2017	104.72 - 109.72	25 83	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	0.000051 J	0 00003 J	0.000034 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0 0099 UJ
	MW6D-ROX-071117-DUP	7/11/2017	104.72 - 109.72	25 83	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0.000038 J	0.000066 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0 0099 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Di-n-octyl phthalate	2,4-Dinitrophenol	Fluoranthene	Fluorene	ndene	ndeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
Screening Values (mg/L)						0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
MW-07	MW7-ROX-101614	10/16/2014	42.92 - 52 92	41 31	NE	<0 0056	<0.022	<0 00011	0.0002		<0.00011	0 0049	0.0074	<0.011	<0.011	<0.0056	<0.011	<0.011	0 00028	0.155	<0.00011	<0.011 UJ
	MW7-ROX-101614-DUP	10/16/2014		41 31	NE	<0 0057	<0.023	<0 00011	0.00019		<0.00011	0 0047	0 007	<0.011	<0.011	<0.0057	<0 011	<0.011	0 00027	0.133	<0.00011	<0.011 UJ
	MW7-ROX-012215	1/22/2015		43.45	NE	<0 0053	<0.021	<0.000063 U	0.00024		0.00003 J	0 0053	0.0068	<0.011	0 00059 J	<0 0053	<0 011	<0.011	0 00049	0.145	<0.000099 U	<0.011
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<0 0052	<0.021	<0.000021 U	0.00022		<0.0001	0 0052	0.0066	<0 01	0 00056 J	<0 0052	<0.01	<0 01	0 00045	0.136	<0.000058 U	<0 01
	MW7-ROX-042115	4/21/2015		44 63	NE	<0 0051	<0 02	<0.0001	0.00033		<0.0001	0.008	0.01	0.00037 J	0.0011 J	<0.0051	<0.01	<0 01	0 00066	0.0707	0.000057 J	<0 01
	MW7-ROX-042115-DUP	4/21/2015		44 63	NE	<0 0051	<0 02	0.000026 J	0.0003		<0.0001	0 0074	0.0093	0.00032 J	0.0011 J	<0 0051	<0.01	<0 01	0 00063	0.0766	0.000066 J	<0 01
	MW7-ROX-071515	7/15/2015		43 54	NE	<0 0051	<0 02	0.000019 J	0.00021		<0.0001	0 0047	0.0065	<0 01	0.0031 J	<0 0051	<0.01	<0 01	0 00031	0.104	0.000052 J	<0 01
	MW7-ROX-071515-DUP	7/15/2015		43 54	NE	<0 0052	<0.021	0.000023 J	0.00018		<0.0001	0 0055	0.0082	<0 01	0.0032 J	<0 0052	<0.01	<0 01	0 00034	0.117	0.000053 J	<0 01
	MW7-ROX-101915	10/19/2015		41.43	NE	<0.01	<0 03	<0.0002	<0.0002	0.0018 J	<0.0002	0 0029	0.0041	<0 01	0.0018 J	<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 03	<0.0002	0.00011 J	0.0018 J	<0.0002	0 0026	0.0037	<0 01	0.0018 J	<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 03	<0.0002	<0.0002	0.0018 J	<0.0002	0.004	0.0053	<0 01	0.0017 J	<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 03	<0.0002	<0.0002	0.0019 J	<0.0002	0 0048	0.0061	<0 01	0.002 J	<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 03	<0.0002	<0.0002	0.0023 J	<0.0002	0 0034	0.0051	<0 01	0.0034 J	<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 03	<0.0002	<0.0002	0.0022 J	<0.0002	0.004	0.0059	<0 01	0.0026 J	<0.01	<0 01	<0.02	0 00025	0.18	<0 0002	<0 01
	MW7-ROX-071416	7/14/2016		39 99	NE	<0.00075 U	<0 03	<0.0002	0.00026	<0.01	<0.0002	0.004 J	0.005 J	<0 01	<0.02	<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 03	<0.0002	0.00018 J	0.0014 J	<0.0002	0.0028 J	0 0034 J	<0 01	0.0026 J	<0.01	<0.01	<0.02	0 00031	0.19	<0 0002	<0 01
	MW7-ROX-100616	10/6/2016		39 24	NE	<0 01 UJ	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 0031	0.0043	0 004 J	0.0049 J	<0.01	<0 01	<0.02	<0.0002	0.46	<0 0002	<0 01
	MW7-ROX-100616-DUP	10/6/2016		39 24	NE	0.00046 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 0029	0.0039	0.0044 J	<0.02	<0.01	<0 01	<0.02	<0.0002	0.43	<0 0002	<0 01
	MW7-ROX-010917	1/9/2017		38 90	NE	<0.00049 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.002	0 003	0.0039 J	0.0044 J	<0.01	<0 01	<0.02	0 00014 J	0.17	<0 0002	<0 01
	MW7-ROX-041017	4/10/2017		38 92	NE	<0 0097	<0.029	<0 00019	<0.00019	0.0024 J	0.00004 J	0 0019	0.0027	0.0043 J	0.0056 J	<0 0097	<0.0097	<0.019	<0 00019	0 27	<0.00019	<0.0097
	MW7-ROX-041017-DUP	4/10/2017		38 92	NE	<0 0097	<0.029	<0 00019	<0.00019	0.0022 J	0.000039 J	0 0019	0.0027	0.0045 J	0.0059 J	<0 0097	<0.0097	<0.019	<0 00019	0 31	<0.00019	<0.0097
	MW7 ROX-071117	7/11/2017		37.79	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0 0019	0 003	0.0035 J	0.0042 J	<0 0097	<0.0097	<0.019	0.00013 J	0 27	<0.00019	<0 0097 UJ
	MW7 ROX-071117-DUP	7/11/2017		37.79	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0 0016	0.0025	0.0034 J	0.0047 J	<0 0097	<0.0097	<0.019	<0 00019	0 24	<0.00019	<0 0097 UJ
MW-08	MW8-ROX-101614	10/16/2014	33 6 - 43 6	32 23	NE	<0 0056	<0.022	<0 00011	0.00054		<0.00011	0 0145	0.0045	0.019	0 0558	<0 0056	<0 011	<0.011	0 00023	0.126	<0.00011	<0.011 UJ
	MW8-ROX-012215	1/22/2015		34 22	NE	<0 0052	<0.021	<0.0001	0.00037		<0.0001	0.011	0.0046	0.0102	0 0242	<0.0052	<0.01	<0.01	0.00016 B	0.146	<0 0001	<0 01
	MW8-ROX-042115	4/21/2015		35.41	NE	<0 0053	<0.021	<0 00011	0.00041		<0.00011	0 0126	0.0053	0.0049 J	0.0063 J	<0 0053	<0 011	<0.011	0 00014	0.129	<0.00011	<0.011
	MW8-ROX-071515	7/15/2015		34 07	NE	<0 0053	<0.021	<0 00011	0.0003		<0.00011	0 0113	0.0083	0.0018 J	0.0046 J	<0 0053	<0 011	<0.011	0 00016	0.135	<0.00011	<0.011
	MW8-ROX-101915	10/19/2015		32 30	NE	<0.01	<0 03	<0.0002	0.00018 J	0.0015 J	<0.0002	0 0087	0.0052	0.0024 J	0.0054 J	<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 03	<0.0002	<0.0002	0.0023 J	<0.0002	0.015	0 007	0.0077 J	0.016 J	<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 03	<0.0002	0.00035	0.0019 J	<0.0002	0.014	0.0063	0.0028 J	0.0036 J	<0.01	<0 01	<0.02	0 00013 J	0 27	<0 0002	<0 01
	MW8-ROX-071416	7/14/2016		30 80	NE	<0.00071 U	<0 03	<0.0002	0.00024	0.0014 J	<0.0002	0 0082	0.0038	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.13	<0 0002	<0 01
	MW8-ROX-100616	10/6/2016		29 99	NE	<0 01 UJ	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 0098	0.0028	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0 29	<0 0002	<0 01
	MW8-ROX-010917	1/9/2017		29.79	NE	<0.00061 U	<0.029	<0.0002	<0.0002	0.0039 J	<0.0002	0.015	0.0038	<0.0098	<0.02	<0.0098	<0.0098	0.0018 J	<0.0002	0 22	<0 0002	<0.0098
	MW8-ROX-041017	4/10/2017		30 02	NE	<0.01	<0 03	<0.0002	<0.0002	0.0017 J	<0.0002	0 0087	0.0036	<0 01	0.0014 J	<0.01	<0 01	0.0021 J	<0.0002	0 22	<0 0002	<0 01
	MW8-ROX-071017	7/10/2017		28.48	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	0 0092	0.0052	<0.0096	0.0023 J	<0 0096	<0.0096	0.0018 J	<0 00019	0.14	<0.00019	<0.0096
MW-09	MW9-ROX-100714	10/7/2014	46.45 - 56.45	43 52	NE	<0 0059	<0.024	<0 00012	<0.00012		<0.00012	<0.0024	<0 0024	<0.012	<0.012	<0.0059	<0.012	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW9-ROX-011315	1/13/2015		44 21	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	<0.0021	<0 0021	<0 01	<0.01	<0.0052	<0.01	<0 01	0 000016 JB	<0.0052	<0 0001	<0.01 UJ
	MW9-ROX-040915	4/9/2015		45 38	NE	<0 0052	<0.021	<0.0001	0.000027 J		<0.0001	<0.0021	0.000018 JB J	<0 01	<0.01	<0 0052	<0.01	<0 01	0 000026 J	<0.0052	<0 0001	<0 01
	MW9-ROX-070915	7/9/2015		44 81	NE	<0 0055	<0.022	<0 00011	<0.00011		<0.00011	0.000073 J	0.00013 J	<0.011	<0.011	<0 0055	<0 011	<0.011	0 000044 J	<0.0055	<0.00011	<0.011
	MW9-ROX-100815	10/8/2015		42 64	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000034 J	0.000053 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000025 J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW9-ROX-071316	7/13/2016		40 93	NE	<0.00066 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000027 J	0.000027 J	<0 01	<0.02	<0.01	<0.01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW9-ROX-101316	10/13/2016		40 39	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000026 J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW9-ROX-011117	1/11/2017		40 06	NE	<0 0093	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW9-ROX-041417	4/14/2017		40 67	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW9-ROX-071217	7/12/2017		38 86	NE	<0 0096	<0.029	<0 00038	<0.00038	<0 0096	<0.00038	<0 00038	<0.00038	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00038	<0.0096	<0.00038	<0.0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-10	MW10-ROX-100714	10/7/2014	44.43 - 54.43	43 58	NE	<0 0057	<0.023	<0 00011	<0.00011		<0.00011	<0.0023	<0 0023	<0.011	<0.011	<0.0057	<0 011	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW10-ROX-011315	1/13/2015		44 27	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0.000018 U	<0.011	<0.011	<0 0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW10-ROX-040815	4/8/2015		45 30	NE	<0 0051	<0 02	0.000016 J	<0.0001		<0.0001	<0.002	0.00002 JB	<0 01	<0.01	<0.0051	<0.01	<0 01	0 000019 J	<0.0051	<0 0001	<0 01
	MW10-ROX-070915	7/9/2015		44 93	NE	<0 0054	<0.022	0.000057 J	0.000037 J		0.000024 J	0.000035 J	0.000058 J	<0.011	<0.011	<0.0054	<0.011	<0.011	0.000077	<0.0054	0.000059 J	<0.011
	MW10-ROX-100915	10/9/2015		42.79	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000039 J	0.000063 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000034 J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW10-ROX-071316	7/13/2016		41 00	NE	<0.00056 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00003 J	0.000033 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW10-ROX-101216	10/12/2016		40 27	NE	<0.011	<0.032	<0 00021	<0.00021	<0.011	<0.00021	<0 00021	<0.00021	<0.011	<0.021	<0 011	<0 011	<0.021	<0 00021	<0 011	<0.00021	<0.011
	MW10-ROX-011117	1/11/2017		39 88	NE	<0 0093	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW10-ROX-041417	4/14/2017		40 50	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW10-ROX-071117	7/11/2017	44.43 - 54.43	38 86	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00002 J	0.000021 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
MW-11	MW11-ROX-100714	10/7/2014	41.66 - 51 66	40 89	NE	<0 0052	<0.021	<0 0001	<0.0001		<0.0001	<0.0021	<0 0021	<0 01	<0.01	<0.0052	<0 01	<0.01	<0.000052	<0.0052	<0 0001	<0 01
	MW11-ROX-011315	1/13/2015		41 93	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0.00002 U	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW11-ROX-040815	4/8/2015		43.19	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	0.000022 JB	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW11-ROX-070915	7/9/2015		42.45	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0.000029 J	0.000045 J	<0.011	<0.011	<0 0054	<0 011	<0.011	0 000029 J	<0.0054	<0.00011	<0.011
	MW11-ROX-100815	10/8/2015		40.15	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000029 J	0.000034 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW11-ROX-071316	7/13/2016		38 59	NE	<0.00065 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW11-ROX-101216	10/12/2016		37 93	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0.0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW11-ROX-011117	1/11/2017		37 63	NE	<0.00097 U	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW11-ROX-041417	4/14/2017		38.17	NE	<0.00051 U	<0.028	<0 00019	<0.00019	<0 0095	<0.00019	0 00004 J	0.000057 J J	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW11-ROX-071017	7/10/2017	41.66 - 51 66	36 39	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
MW-12	MW12-ROX-100614	10/6/2014	41.92 - 51 92	40 98	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW12-ROX-011215	1/12/2015		42 33	NE	<0 0056	<0.022	0 00002 J	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0 0056	<0 011	<0.011	0 000018 J	<0.0056	<0.00011	<0.011 UJ
	MW12-ROX-040615	4/6/2015		43.75	NE	<0 0053	<0.021	0.000019 J	<0.00011		<0.00011	0.000018 J	0.000031 J	<0.011	<0.011	<0.0053	<0.011	<0.011	<0 00002 U	<0.0053	0.000016 J	<0.011
	MW12-ROX-070815	7/8/2015		42 86	NE	<0 0056	<0.022	0.00012	0.00003 J		0.000059 J	0.000035 J	0.000079 J	<0.011	<0.011	<0 0056	<0 011	<0.011	0 000067 J	<0.0056	0.000081 J	<0.011
	MW12-ROX-100815	10/8/2015		40 54	NE	<0.01	<0 03	0.000039 J	<0.0002	<0.01	<0.0002	0 00006 J	0.000081 J	<0 01	<0.02	<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 03	0.000039 J	<0.0002	<0.01	<0.0002	0.000036 J	0.000055 J	<0 01	<0.02	<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 03	0.00037	<0.0002	<0.01	0.00014 J	<0.0002	<0 0002	<0 01	<0.02	<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 03	0.000074 J	0.000069 J	<0.01	0.000064 J	0.000046 J	0.000086 J	<0 01	<0.02	<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 00055 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000051 J J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW12-ROX-101116	10/11/2016		38 85	NE	<0.01	<0 03	0.000052 J	<0.0002	<0.01	<0.0002	0.000025 J	0.000036 J	<0.01 UJ	<0.02 UJ	<0.01	<0.01	<0 02	<0.0002	<0.01	0.000029 J	<0 01
	MW12-ROX-010917	1/9/2017		38.11	NE	0.00051 J B	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW12-ROX-041417	4/14/2017		38 50	NE	<0.01	<0 03	0.000021 J	<0.0002	<0.01	<0.0002	0.000025 J	0.000036 J J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW-12-ROX-07072017	7/7/2017	41.92 - 51 92	36 84	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0.000031 J	0.000045 J	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-13	MW13-ROX-101014	10/10/2014	25.57 - 35 57	27.48	NE	<0.006	<0.024	<0 00012	<0.00012		<0.00012	<0.0024	<0 0024	<0.012	<0.012	<0 006	<0.012	<0.012	0.000032 J	<0 006	<0.00012	<0.012
	MW13-ROX-011615	1/16/2015		29 09	NE	<0 0053	<0.021	0.000022 J	0.000035 J		<0.00011	0 00004 J	0.00008 J	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000025 J	<0.0053	0.000046 J	<0.011
	MW13-ROX-041415	4/14/2015		30.71	NE	<0 0056	<0.022	0.000025 J	0.000066 J		<0.00011	0.000029 J	0.000055 J	<0.011	<0.011	<0.0056	<0.011	<0.011	0 00007	<0.0056	0.000023 J	<0.011
	MW13-ROX-070815	7/8/2015		29.16	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.000031 J	0.000047 J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	0.00032 J	0.000016 J	<0.011
	MW13-ROX-100515	10/5/2015		27 34	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00085	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00021	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW13-ROX100716	10/7/2016		25.16	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW13-ROX-010617	1/6/2017		25 54	NE	0 0005 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW13-ROX-041317	4/13/2017		25.75	NE	<0.01	<0 03	<0.001	<0 001	<0.01	<0 001	<0.001	<0.001	<0 01	<0.02	<0.01	<0 01	<0.02	<0.001	<0.01	<0.001	<0 01
	MW13-ROX-070717	7/7/2017	25.57 - 35 57	23 64	NE	<0 0095	<0.029	<0 00095	<0.00095	<0 0095	<0.00095	<0 00095	<0.00095	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00095	<0.0095	<0.00095	<0.0095
MW-14	MW14-ROX-101414	10/14/2014	33.42 - 43.42	31 65	NE	<0 0056	<0.022	<0 00011	0.00024		<0.00011	0.0014 J	<0 0022	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000021 U	<0.0056	<0.00011	<0.011
	MW14-ROX-011615	1/16/2015		33 58	NE	<0 0053	<0.021	<0 00011	0.00013		<0.00011	0 00012 J	0.000026 J	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000021 J	<0.0053	<0.00011	<0.011
	MW14-ROX-041415	4/14/2015		35.16	NE	<0 0052	<0.021	<0 00011	0.00017		<0.00011	0 00007 J	0.000018 J	<0 01	<0.01	<0 0052	<0.01	<0 01	<0.000054	<0.0052	<0.00011	<0 01
	MW14-ROX-070915	7/9/2015		34 06	NE	<0 0052	<0.021	0.000016 J	0.00017		<0.0001	0 00019 J	0.00012 J	<0 01	<0.01	<0 0052	<0.01	<0 01	0.000062	<0.0052	0.000017 J	<0 01
	MW14-ROX-101315	10/13/2015		31 88	NE	<0.01	<0 03	<0.0002	0.00013 J	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	0.000095 J	<0.01	0.000066 J	0 00013 J	<0 0002	<0 01	<0.02	<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 03	<0.0002	0.000084 J	<0.01	<0.0002	0.000084 J	0.00004 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW14-ROX-071116	7/11/2016		30 59	NE	0 00054 J J	<0 03	<0.0002	0.000029 J	<0.01	<0.0002	0.000057 J	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW14-ROX-101416	10/14/2016		29 62	NE	0 00055 J H J	<0.029 UJ	<0 00019	0.00004 J *	<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	<0 019 UJ	<0 00019	<0 0095 UJ	<0.00019	<0 0095 UJ
	MW14-ROX-011117	1/11/2017		29 61	NE	0 0005 J	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0 0002	<0.0098
	MW14-ROX-041317	4/13/2017		29 54	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0.000026 J	<0 0002	<0.0099	<0.02	<0.0099	<0.0099	<0.02	<0.0002	<0.0099	<0 0002	<0.0099
	MW14-ROX-070717	7/7/2017	33.42 - 43.42	28 28	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	0.000056 J	<0.00019	<0.0095	<0.019	<0.0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
MW-16	MW16-ROX-100714	10/7/2014	37.06 - 47 06	42 27	NE	<0.006	<0.024	<0 00012	<0.00012		<0.00012	<0.0024	<0 0024	<0.012	<0.012	<0 006	<0.012	<0.012	<0 00006	<0 006	<0.00012	<0.012
	MW16-ROX-011315	1/13/2015		43 59	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.000016 U	<0.000022 U	<0.011	<0.011	<0.0053	<0.011	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW16-ROX-040915	4/9/2015		44 87	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0 000026 JB J	0.000039 JB J	<0.011	<0.011	<0.0053	<0.011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW16-ROX-070915	7/9/2015		44 26	NE	<0 0055	<0.022	<0 00011	0.000037 J		<0.00011	0.000067 J	0.00012 J	<0.011	<0.011	<0.0055	<0.011	<0.011	0.000043 J	<0.0055	<0.00011	<0.011
	MW16-ROX-070915-DUP	7/9/2015		44 26	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0.000047 J	0.000074 J	<0.011	<0.011	<0.0056	<0.011	<0.011	0.000023 J	<0.0056	<0.00011	<0.011
	MW16-ROX-100715	10/7/2015		41 83	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000045 J	0.000073 J J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW16-ROX-071216	7/12/2016		39 93	NE	0 00072 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW16-ROX-101116	10/11/2016		39 64	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0 00002 J	0.000033 J	<0 0099 UJ	<0.02 UJ	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0.0099
	MW16-ROX-010917	1/9/2017		39.15	NE	<0.00052 U	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0.0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW16-ROX-041417	4/14/2017		39.45	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	<0 00019	<0.00019	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	MW16-ROX-071017	7/10/2017	37.06 - 47 06	38.16	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-22	MW22-ROX-101014	10/10/2014	37.88 - 47 88	41.43	NE	<0 0063	<0.025	<0 00013	0.00014		<0.00013	0 0193	0.0339	0.0064 J	0.011 J	<0 0063	<0 013	<0.013	0 00036	0.0079	<0.00013	<0.013
	MW22-ROX-011615	1/16/2015		42.19	NE	<0 0053	<0.021	<0 00011	0.00051		<0.00011	0 0153	0.0184	<0.011	<0.011	<0.0053	<0.011	<0.011	0.000064	0.0119	<0.00011	<0.011
	MW22-ROX-041415	4/14/2015		43.71	NE	<0 0052	<0.021	0.000016 J	0.00021	0.047 JN	<0.0001	0.024	0.0397	<0 01	0 0201	<0 0052	<0.01	<0 01	0 00013	0.0108	0.00002 J	<0 01
	MW22-ROX-071515	7/15/2015		42 64	NE	<0.029	<0.11	<0 00011	0.00011	0.033 JN	<0.00011	0 0216	0.0374	0.0075 J	<0.057	<0 029	<0.057	<0.057	0.000099	<0 029	<0.00011	<0.057
	MW22-ROX-101415	10/14/2015		40 54	NE	<0.01	<0 03	<0.0002	<0.0002	0.021	<0.0002	0.015	0 026	0.0055 J	0.0097 J	<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 03	<0.002	<0 002	0.029	<0 002	0.022	0 038	0.0095 J	0.021	<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 03	<0.002	<0 002	0.027	<0 002	0.019	0 033	0.0083 J	0.019 J	<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	<0.03 UJ	<0.0002	<0.0002	0.032 H J	<0.0002	0.019	0 026	<0.01 UJ	0 018 J H J	<0 01 UJ	<0.01 UJ	<0.02 UJ	<0.0002	<0.01 UJ	<0 0002	<0.01 UJ
	MW22-ROX-041316-DUP	4/13/2016		39 56	NE	<0.01	<0 03	<0.0002	<0.0002	0.02	<0.0002	0.014	0 016	0.016	0.014 J	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW22-ROX-071516	7/15/2016		38 97	NE	<0.00072 U	<0 03	<0.0002	<0.0002	0.0043 J	<0.0002	0.0032 J	0.0048	<0 01	<0.02	<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	<0.00086 U	<0 03	<0.0002	<0.0002	0.005 J	<0.0002	0.0041 J	0 006	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW22-ROX-101716	10/17/2016		38.17	NE	<0 0098	<0.029	<0 00098	<0.00098	<0 0098	<0.00098	0 0061	0 0079 J	<0.0098	<0.02	<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 UJ	<0.029	<0 00098	<0.00098	0.0076 J	<0.00098	0 0048	0.006 J	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0 00098	<0.0098	<0.00098	<0.0098
	MW22-ROX-011217	1/12/2017		37 80	NE	<0.00056 U	<0.028	<0 00093	<0.00093	0.0064 J	<0.00093	0 0055	0.0089	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00093	<0.0093	<0.00093	<0.0093
	MW22-ROX-011217-DUP	1/12/2017		37 80	NE	0.00073 J B	<0.031	<0.001	<0 001	0.0067 J	<0 001	0 0057	0.0093	<0 01	<0.02	<0.01	<0 01	<0.02	<0.001	<0.01	<0.001	<0 01
	MW22-ROX-041717	4/17/2017		38 24	NE	<0 0095	<0.029	<0 00019	<0.00019	0.0084 J	<0.00019	0 0072	0.011 J	<0.0095	0.0025 J	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW22-ROX-041717-DUP	4/17/2017		38 24	NE	<0 0096	<0.029	<0 00019	<0.00019	0.01	<0.00019	0 0091	0.015 J	<0.0096	0.0023 J	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW22-ROX-071217	7/12/2017	37.88 - 47 88	36 83	NE	<0.01	<0 03	<0 00041	<0.00041	0.0047 J	<0.00041	0.005	0.0065	<0 01	<0.02	<0.01	<0 01	<0.02	<0 00041	<0.01	<0.00041	<0 01
	MW22-ROX-071217-DUP	7/12/2017	37.88 - 47 88	36 83	NE	<0 01 UJ	<0 03	<0.0004	<0.0004	0.0048 J	<0.0004	0 0053	0.0071	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0004	<0.01	<0 0004	<0 01
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39 02	30 90	NE	<0.005	<0.025	<0.001	0.00096 J		<0.0002	0 0019	0.00056 J	<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 02	0.000029 J	0.000053 J		<0.0001	0 000036 JB J	0.000028 JB J	<0 01	<0.01	<0 0051	<0.01	<0 01	0 00057	<0.0051	0.00015	<0 01
	MW23-ROX-071015-BP	7/10/2015		30 54	NE	<0 0056	<0.022	0 00002 J	0.000025 J		<0.00011	0 000045 JB J	0.000079 JB J	<0.011	<0.011	<0 0056	<0 011	<0.011	0 000052 J	<0.0056	0.000068 J	<0.011
	MW23-ROX-100515	10/5/2015		28 89	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000072 J	0.00011 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000022 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 0015 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000033 J	0.000039 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW23-ROX-BP-100716	10/7/2016		26 64	NE	<0.0098 UJ	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0 00002 J	0.000024 J	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW23-ROX-011017	1/10/2017		26 83	NE	<0.00052 U	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0.0096
	MW23-ROX-041117	4/11/2017		27 54	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0.000049 J	0.000049 J	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW23-ROX-071017	7/10/2017	29.02 - 39 02	25.13	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
MW-24	MW24-ROX-100814	10/8/2014	38.89 - 48 89	42.16	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0 0054	<0.011	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW24-ROX-011315	1/13/2015		43.17	NE	<0 0053	<0.021	<0 00011	0.000059 J		<0.00011	0 00009 JB	<0.000099 U	<0.011	<0.011	<0.0053	<0.011	<0.011	0.000037 J	<0.0053	<0.00011	<0.011 UJ
	MW24-ROX-040915	4/9/2015		44.45	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.00002 JB J	0.000035 JB J	<0.011	<0.011	<0.0053	<0.011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-070915	7/9/2015		44 65	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	0.000049 J	0.000081 J	<0 01	<0.01	<0.0052	<0 01	<0.01	0.000041 J	<0.0052	<0 0001	<0 01
	MW24-ROX-100715	10/7/2015		41.45	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000057 J	0.000087 J J	<0 01	<0.02	<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 03	0.000036 J	<0.0002	<0.01	0.000057 J	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW24-ROX-071216	7/12/2016		39 67	NE	0 00073 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00003 J	0.000035 J J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW24-ROX-101116	10/11/2016		39.19	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000021 J	0.000029 J	<0.01 UJ	<0.02 UJ	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	MW24-ROX-010917	1/9/2017		38 97	NE	<0.00072 U	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	<0.0002	<0 0002	<0.0099	<0.02	<0.0099	<0.0099	<0.02	<0.0002	<0.0099	<0 0002	<0.0099
	MW24-ROX-041717	4/17/2017		39.42	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0 00003 J	0.000048 J	<0.0099	<0.02	<0.0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0.0099
	MW-24-ROX-07072017	7/7/2017	38.89 - 48 89	37 68	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	0.000023 J	<0.0098	<0.02	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0 0002	<0.0098

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45 59	36.44	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0 00093 J	0.00057 J	0.0011 J	0.0028 J	<0 0056	<0 011	<0.011	0 000033 J	0.173	<0.00011	<0.011
	MW25-ROX-012215	1/22/2015		38.45	NE	<0 0052	<0.021	<0.000018 U	<0.0001		<0.0001	0 00036 J	0.00015 J	<0 01	<0.01	<0 0052	<0.01	<0 01	<0.000052	0.107	<0.000019 U	<0 01
	MW25-ROX-042115	4/21/2015		39.71	NE	<0 0051	<0 02	<0.0001	<0.0001		<0.0001	0 00067 J	0.00035 J	<0 01	<0.01	<0.0051	<0 01	<0.01	<0.000051	0.0592	<0 0001	<0 01
	MW25-ROX-071515	7/15/2015		38.40	NE	<0 0052	<0.021	<0.0001	0.000019 J		<0.0001	0 00088 J	0.00049 J	<0 01	<0.01	<0 0052	<0.01	<0 01	0 000017 J	0.112	<0 0001	<0 01
	MW25-ROX-101915	10/19/2015		36 55	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00026	0.00014 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 0004	0.00017 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00031	0.00015 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.031	<0 0002	<0 01
	MW25-ROX-071816	7/18/2016		35.19	NE	<0.0023 UJ	<0.03 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.0002 UJ	0 000067 J H J	0.000047 J H J	<0.01 UJ	<0.02 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		34 27	NE	0.00064 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00021	0.000049 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.0095 J	<0 0002	<0 01
	MW25-ROX-011117	1/11/2017		34 00	NE	0.00046 J	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0.00019	<0.00019	<0.0097	<0.019	<0.0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	MW25-ROX-041117	4/11/2017		34 31	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	0.00024	0.000033 J	<0.0095	<0.019	<0.0095	<0.0095	<0.019	<0 00019	0.0042 J	<0.00019	<0.0095
	MW25-ROX-071017	7/10/2017	35.59 - 45 59	32.75	NE	<0.0096 UJ	<0.029 UJ	<0 00019	<0.00019	<0.0096 UJ	<0.00019	0.000063 J	0.000032 J	<0 0096 UJ	<0 019 UJ	<0.0096 UJ	<0 0096 UJ	<0 019 UJ	<0 00019	<0 0096 UJ	<0.00019	<0 0096 UJ
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0.011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW26-ROX-011215	1/12/2015		41 09	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	<0.0021	<0.000017 U	<0 01	<0.01	<0.0052	<0 01	<0.01	0.000015 J	<0.0052	<0 0001	<0.01 UJ
	MW26-ROX-040815	4/8/2015		42 52	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	<0.0021	<0 0021	<0 01	<0.01	<0.0052	<0 01	<0.01	<0.000052	<0.0052	<0 0001	<0 01
	MW26-ROX-070815	7/8/2015		41.76	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.000046 J	0.000065 J	<0.011	<0.011	<0.0053	<0.011	<0.011	0 00003 J	<0.0053	<0.00011	<0.011
	MW26-ROX-100615	10/6/2015		39.19	NE	0.00055 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000083 J	0.00013 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW26-ROX-071216	7/12/2016		37.74	NE	0 00058 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW26-ROX-101016	10/10/2016		37.13	NE	0 00051 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.0001 J	0.00016 J	<0 01	<0.02 UJ	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW26-ROX-010617	1/6/2017		36.74	NE	0.00042 J	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW26-ROX-041417	4/14/2017		36 91	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW-26-ROX-07072017	7/7/2017	38.15 - 48.15	35 61	NE	<0 0097	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	<0 00019	0.000028 J	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41 57	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW27-ROX-011515	1/15/2015		42 06	NE	<0.0053 UJ	<0.021	<0 00011	0.000023 J J		0.000047 J J	<0.0021	<0 0021	<0.011	<0.011	<0.0053	<0 011	<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	<0.022	0 000024 J J	<0.00011		<0.00011	0.000036 J	0.00007 J	<0.011	<0.011	<0 0054	<0 011	<0.011	0.000019 JB J	<0.0054	0.000018 J	<0.011
	MW27-ROX-071015	7/10/2015		43 00	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0.00005 JB J	0.000086 JB J	<0.011	<0.011	<0 0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW27-ROX-100815	10/8/2015		40 32	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000035 J	0.000051 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000034 J	0.000051 J	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW-27-ROX-071316	7/13/2016		38 94	NE	<0.00054 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00002 J	0.000028 J	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	MW27-ROX-101216	10/12/2016		38 50	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW27-ROX-011117	1/11/2017		38 05	NE	<0 0093	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	MW27-ROX-041417	4/14/2017		38.72	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	0.000025 J	0.000032 J J	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	MW27-ROX-071017	7/10/2017	39.79 - 49.79	37 23	NE	<0.0099 UJ	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0.000029 J	0.000036 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0.0099

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43 61	36.44	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0 00075 J	<0 0021	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000017 J	<0.0053	<0.00011	<0.011
	MW28-ROX-011515	1/15/2015		41.14	NE	<0 0055	<0.022	<0 00011	<0.00011		<0.00011	0 00047 J	<0 0022	<0.011	<0.011	<0 0055	<0 011	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW28-ROX-041415	4/14/2015		42 34	NE	<0 0057	<0.023	<0 00011	<0.00011		0.000035 J	0 00024 J	0.000037 J	<0.011	<0.011	<0 0057	<0 011	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW28-ROX-071515	7/15/2015		42.19	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0.00021 J J	0.0001 JB J	<0.011	<0.011	<0.0056	<0.011	<0.011	0 00002 J	<0.0056	<0.00011	<0.011
	MW28-ROX-101215	10/12/2015		40 04	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000069 J	0.00007 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000033 J	0.000028 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.000048 J	0.000055 J	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW28-ROX-071416	7/14/2016		38.49	NE	<0.00084 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	MW28-ROX-101316	10/13/2016		37 86	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0.000057 J	0.000034 J	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	MW28-ROX-011217	1/12/2017		37.14	NE	0.00049 J B	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	<0 00019	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	0.0028 J	<0.00019	<0.0093
	MW28-ROX-041717	4/17/2017		38 05	NE	<0 0099	<0 03	<0.0002	<0.0002	<0 0099	<0.0002	0 00016 J	0.000092 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0.0099
	MW28-ROX-071217	7/12/2017	33.61 - 43 61	36.48	NE	0.00049 J	<0 03	<0.0004	<0.0004	<0 0099	<0.0004	<0.0004	<0 0004	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0004	<0.0099	<0 0004	<0.0099
P-54	P54-ROX-100814	10/8/2014	38 - 63	40 88	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	P54-ROX-011415	1/14/2015		41.79	NE	<0 0056	<0.022	0 000021 J J	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0.011	<0.011	0 00002 J	<0.0056	0.00003 J	<0.011
	P54-ROX-041015	4/10/2015		43 20	NE	<0 0053	<0.021	0.00002 J J	<0.00011		<0.00011	0.000024 J	0.000046 J	<0.011	<0.011	<0 0053	<0 011	<0.011	0.000025 JB J	<0.0053	0.000018 J	<0.011
	P54-ROX-070915	7/9/2015		42 25	NE	<0 0052	<0.021	<0.0001	0.000019 J		<0.0001	0.000089 J	0.00015 J	<0 01	<0.01	<0 0052	<0.01	<0 01	0 000041 J	<0.0052	<0 0001	<0 01
	P54-ROX-100915	10/9/2015		40 20	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000037 J	0.000063 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	P54-ROX-071216	7/12/2016		38.44	NE	0 00083 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000038 J	0.000049 J J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	P54-ROX-101216	10/12/2016		37 85	NE	0.00086 J	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0.000038 J	0.000043 J	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	P54-ROX-010917	1/9/2017		37 80	NE	<0.00053 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	P54-ROX-041717	4/17/2017		38 30	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	P54-ROX-071017	7/10/2017	38 - 63	36 35	NE	<0 0099	<0 03	0.000041 J	<0.0002	<0 0099	<0.0002	0.000044 J	0.000055 J	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	0.000031 J	<0.0099
P-56	P56-ROX-101314	10/13/2014	40.82 - 65 82	45 05	NE	<0 0054	<0.022	<0 00011	0.00041		<0.00011	0 0235	0.0296	<0.011	<0.011	<0 0054	<0 011	<0.011	0.0015	<0.0054	<0.00011	<0.011 UJ
	P56-ROX-011915	1/19/2015		46 58	NE	<0 0054	<0.022	<0 00011	0.0003		<0.00011	0 0197	0.0223	<0.011	<0.011	<0.0054	<0.011	<0.011	0.0011	<0.0054	0.00003 J	<0.011
	P56-ROX-041515	4/15/2015		48 05	NE	<0 0054	<0.022	<0 00011	0.00041		<0.00011	0.026	0.0293	<0.011	0.0011 J	<0 0054	<0 011	<0.011	0.0013	<0.0054	0.000027 J J	<0.011
	P56-ROX-071015	7/10/2015		47 34	NE	<0 0053	<0.021	<0 00011	0.00033		<0.00011	0 0262	0.0119	<0.011	<0.011	<0.0053	<0.011	<0.011	0.0014	<0.0053	0.000029 J	<0.011
	P56-ROX-101415	10/14/2015		44 85	NE	<0.01	<0 03	<0.0002	0.00018 J	<0.01	<0.0002	0.013	0.011 J	<0 01	0.29	<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 03	<0.0002	0.00044	<0.01	<0.0002	0.021	0 019	<0 01	0.0028 J	<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 03	<0.0002	0.00014 J	<0.01	<0.0002	0.02	0 021	<0 01	<0.02	<0.01	<0 01	<0.02	0.0011	<0.01	<0 0002	<0 01
	P56-ROX-071216	7/12/2016		42 87	NE	0 00093 J J	<0 03	<0.0002	0.00019 J	<0.01	<0.0002	0.011	0 011	<0 01	<0.02	<0.01	<0 01	<0.02	0 00053	<0.01	<0 0002	<0.01 UJ
	P56-ROX-101716	10/17/2016		42 35	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 0069	0.0029	<0 01	<0.02	<0.01	<0.01	<0.02	0 00079	<0.01	<0 0002	<0 01
	P56-ROX-011217	1/12/2017		42 01	NE	<0.00078 U	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	0.023	0 025	<0.0097	0.0024 J	<0.0097	<0.0097	<0.019	0.0012	<0.0097	0.000029 J	<0.0097
	P56-ROX-040617	4/6/2017		42.46	NE	<0 01 UJ	<0 03	<0.0002	0.000095 J	<0.01	<0.0002	0 0037	0 001	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	P56-ROX-071217	7/12/2017	40.82 - 65 82	41.11	NE	<0.01	<0.031	<0 00041	<0.00041	<0.01	<0.00041	0.014	0 014	<0 01	0.029	<0.01	<0 01	<0.021	0 00074	<0.01	<0.00041	<0 01

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Di-n-octyl phthalate	2,4-Dinitrophenol	Fluoranthene	Fluorene	ndene	ndeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	Nitrobenzene	2-Nitrophenol	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
			Screening Values (mg/L)			0.014 [2]	0.0077 [1]	0.28 [1]	0.28 [1]		0.00043 [1]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]		0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
P-57	P57-ROX-101414-DUP	10/14/2014	40.46 - 65.46	45 00	NE	<0 0058	<0.023	<0 00012	0.00065		<0.00012	0 0243	0.0338	<0.012	0 0138	<0 0058	<0 012	<0.012	0 00058	0 271 J	<0.00012	<0.012
	P57-ROX-101414	10/14/2014		45 00	NE	<0 0056	<0.022	<0 00011	0.00068		<0.00011	0.026	0.0345	<0.011	0 0152	<0.0056	<0.011	<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 0053	<0.021	<0 00002 U	0.00098		<0.00011	0 0385	0.0507	<0.011	0.0044 J	<0 0053	<0 011	<0.011	0 00062	0.159	<0.000027 U	<0.011 UJ
	P57-ROX-042015	4/20/2015		48.73	NE	<0 0052	<0.021	<0.0001	0.00089		<0.0001	0 0312	0 045	<0 01	<0.01	<0.0052	<0 01	<0.01	0.0007	0.164	0.000021 J	<0 01
	P57-ROX-071315	7/13/2015		47 81	NE	<0 0053	<0.021	<0 00011	0.00082		<0.00011	0 0302	0.0464	<0.011	<0.011	<0.0053	<0.011	<0.011	0 00064	0.189	0.00002 J	<0.011
	P57-ROX-101515	10/15/2015		45 56	NE	<0.01	<0 03	<0.0002	0.00045	<0.01	<0.0002	0.018	0 026	<0 01	0.038	<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 03	<0.001	0.00089 J	0.0037 J	<0 001	0.038	0 057	<0 01	<0.02	<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	<0.03 UJ	<0.0002 UJ	0.00044 H J	0.0012 J H J	<0.0002 UJ	0.019 H J	0.027 H J	<0.01 UJ	0.0012 J H J	<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	<0.00069 U	<0 03	<0.001	0.00053 J	<0.01	<0 001	0.026	0 036	<0 01	<0.02	<0.01	<0 01	<0.02	0 00053 J	0.73	<0.001	<0.01 UJ
	P57-ROX-101816	10/18/2016		43.17	NE	<0.01	<0 03	<0.0002	0.00064	0.0013 J	<0.0002	0.027	0 037	<0 01	<0.02	<0.01	<0 01	<0.02	0 00064	1.1	<0 0002	<0 01
	P57-ROX-011617	1/16/2017		42 82	NE	<0 0098	<0.029	<0.0002	0.00045	<0 0098	<0.0002	0.023	0.03	<0.0098	<0.02	<0.0098	<0.0098	<0.02	0 00041	2.1	<0 0002	<0.0098
	P57-ROX-040717	4/7/2017		43 05	NE	<0.0097 UJ	<0.029 UJ	<0.001	0 00038 J J	0 001 J H J	<0 001	0.019	0 025	<0 0097 UJ	<0 019 UJ	<0.0097 UJ	<0 0097 UJ	<0 019 UJ	0.0002 J	0.95 H J	<0.001	<0 0097 UJ
	P57-ROX-071317	7/13/2017	44.19 - 54.19	41 95	NE	<0 0099	<0.03 UJ	<0.0002	0.00054	<0 0099	<0.0002	0.023	0.03	<0.0099	<0.02	<0.0099	<0.0099	<0.02 UJ	0 00038	0 63	0.000066 J	<0.0099
P-58	P58-ROX-101514	10/15/2014	40 214 - 65 214	43.14	NE	<0 0054	<0.022	0.000064 J	0.0015		<0.00011	0 0504	0.0674	<0.011	0 0237	<0 0054	<0 011	<0.011	0.001	0.145	0.00024	<0.011
	P58-ROX-012315	1/23/2015		45 32	NE	<0 0053	<0.021	<0.000028 U	0.0011		<0.00011	0 0428	0.0565	<0.011	0.0025 J	<0 0053	<0 011	<0.011	0 00064	0.162	0.000097 JB	<0.011 UJ
	P58-ROX-042015	4/20/2015		46 67	NE	<0 0052	<0.021	0.000048 J	0.0012		<0.0001	0 0444	0.0563	<0 01	0.0047 J	<0.0052	<0 01	<0.01	0 00075	0.112	0.00019	<0 01
	P58-ROX-071415	7/14/2015		45 54	NE	<0 0055	<0.022	0.000054 J	0.0011		<0.00011	0.04	0 055	<0.011	0 0165	<0.0055	<0.011	<0.011	0 00083	0.153	0.00023	<0.011
	P58-ROX-101615	10/16/2015		43.45	NE	<0.01	<0 03	<0.0002	0.00038	<0.01	<0.0002	0.016	0 021	<0 01	0.013 J	<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 03	0.000063 J	0.0012	0.0025 J	<0.0002	0.062	0 083	<0 01	0.015 J	<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	<0.03 UJ	<0.0002 UJ	0 0012 H J	0 002 J H J	<0.0002 UJ	0.061 H J	0.077 H J	<0.01 UJ	0.0035 J H J	<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	<0.00098 U	<0 03	<0.0002	0.00063	0.0013 J	<0.0002	0.024	0 033	<0 01	<0.02	<0.01	<0 01	0.002 J	0 00032	0 21	<0 0002	<0.01 UJ
	P58-ROX-101816	10/18/2016		41 05	NE	<0 0098	<0.029	<0 00098	0.00094 J	0.0014 J	<0.00098	0.042	0 052	<0.0098	0.0034 J	<0 0098	<0.0098	<0 02	0 00087 J	0.6	0.00018 J	<0.0098
	P58-ROX-011617	1/16/2017		40.73	NE	0.00072 J	<0.029	<0 00095	0.00098	0.0015 J	<0.00095	0.038	0 045	<0.0095	0.0041 J	<0 0095	<0.0095	<0.019	0.0008 J	0 33	0.00024 J	<0.0095
	P58-ROX-041117	4/11/2017		40.74	NE	<0 0095	<0.028	<0 00095	0.0012	<0 0095	<0.00095	0.051	0 053	<0.0095	<0.019	<0.0095	<0.0095	<0.019	0.0011	0.15	0.00027 J	<0.0095
	P58-ROX-071317	7/13/2017	40 214 - 65 214	39 88	NE	<0 01 UJ	<0.03 UJ	<0.00039 UJ	0.00088 H J	<0.01 UJ	<0 00039 UJ	0.037 H J	0.038 H J	<0.01 UJ	<0.02 UJ	<0 01 UJ	<0.01 UJ	<0.02 UJ	0 00097 H J	0.46	0.00064 H J	<0.01 UJ
P-59	P59-ROX-101414	10/14/2014	47 911 - 72 911	46.18	NE	<0 0054	<0.022	<0 00054	0.00087		<0.00054	0 0268	0.0425	0.0387	0.0092 J	<0 0054	<0 011	<0.011	0.0015	0.0361	<0.00054	<0.011
	P59-ROX-011915	1/19/2015		47.42	NE	<0 0054	<0.022	0.00014	0.00073		<0.00011	0 0145	0.0216	0.0789	0 0145	<0 0054	<0 011	<0.011	0.0013	0.0169	0.00027	<0.011
	P59-ROX-041615	4/16/2015		48 83	NE	<0 0054	<0.022	0.000078 J	0.00028	0.057 JN	<0.00011	0 0136	0.0189	0.0661	0.168	<0.0054	<0.011	<0.011	0 00081	0.0909	0.00014	<0.011
	P59-ROX-071315	7/13/2015		47 85	NE	<0 0054	<0.022	0 0002	0 00045		<0.00011	0 0045	0.0049	0.044	0 0123	<0 0054	<0 011	<0.011	0 00064	0.0062	0.00039	<0.011
	P59-ROX-101515	10/15/2015		45.75	NE	<0.01	<0 03	<0.0002	<0 002	0 0091 J	<0.0002	0.014	0 014	0.093	0.061	<0.01	<0 01	<0.02	<0.0002	0.072	<0 0002	<0.01 UJ
	P59-ROX-011216	1/12/2016		46.10	NE	0.00049 J	<0 03	0 00017 J	0.00055 J	0.018	<0 001	0.017	0 026	0.012	0.0068 J	<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	<0.03 UJ	0 00022 J	0.00024 J	0.011 J	0.000044 J J	0.011 J	0.017 J	0 0021 J J	0.0033 J J	<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	<0.00079 U	<0 03	<0.001	<0 001	<0.01	<0 001	0.018	0 021	<0 01	<0.02	<0.01	<0 01	<0.02	<0.001	<0.01	<0.001	<0.01 UJ
	P59-ROX-101816	10/18/2016		43 39	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0.022	0 037	<0.0098	<0.02	<0.0098	<0.0098	<0.02	<0.0002	0.094	<0 0002	<0.0098
	P59-ROX-011617	1/16/2017		42 83	NE	0.00077 J	<0 03	<0 00099	0.00041 J	0.016	<0.00099	0.019	0 027	<0.0099	<0.02	<0.0099	<0.0099	<0.02	0.001	0.075	0.00014 J	<0.0099
	P59-ROX-040717	4/7/2017		43 31	NE	<0.0097 UJ	<0.029 UJ	0 00012 J	0.00023 J	0.016 H J	<0.00095	0.018	0 028	<0 0097 UJ	0.0034 J H J	<0.0097 UJ	<0 0097 UJ	<0 019 UJ	0 00043 J	0 047 H J	<0.00095	<0 0097 UJ
	P59-ROX-071317	7/13/2017	47 911 - 72 911	42.16	NE	<0.01	<0.03 UJ	0 00016 J	<0.0002	0.018	<0.0002	0.021	0 034	<0 01	<0.02	<0.01	<0 01	<0.02 UJ	0 00054	0.066	<0 0002	<0 01

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
P-66	P66-ROX-101414	10/14/2014	34.72 - 59.72	34.48	NE	<0 0055	<0.022	<0 00011	0.0011		<0.00011	0 0595	0.0075	<0.011	<0.011	<0.0055	<0.011	<0.011	0 00064	<0.0055	0.000043 J	<0.011
	P66-ROX-011615	1/16/2015		36 62	NE	<0 0053	<0.021	0 000047 J J	0.0014		<0.00011	0 0739	0.0178	<0.011	<0.011	<0 0053	<0 011	<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	<0.022	0.001 J	0.0015		0 00014	0 0682	0.0165	<0.011	<0.011	<0 0054	<0 011	<0.011	0.0016 J	<0.0054	0.00086 J	<0.011
	P66-ROX-041415	4/14/2015		38 27	NE	<0 0054	<0.022	0 00005 J	0.0013		<0.00011	0 0665	0.02	<0.011	<0.011	<0 0054	<0 011	<0.011	0 00062	<0.0054	0.000053 J	<0.011
	P66-ROX-041415-DUP	4/14/2015		38 27	NE	<0 0053	<0.021	0.000038 J	0.0013		<0.00011	0 0627	0.0187	<0.011	<0.011	<0 0053	<0 011	<0.011	0 00059	<0.0053	0.000041 J	<0.011
	P66-ROX-070815	7/8/2015		37 24	NE	<0 0053	<0.021	0.000027 J	0.0011		<0.00011	0 0546	0.0075	<0.011	<0.011	<0 0053	<0 011	<0.011	0 00053	<0.0053	0.000028 J	<0.011
	P66-ROX-070815-DUP	7/8/2015		37 24	NE	<0 0053	<0.021	0.000024 J	0.0011		<0.00011	0 0574	0.0077	<0.011	<0.011	<0 0053	<0 011	<0.011	0 00056	<0.0053	0.00004 J	<0.011
	P66-ROX-101315	10/13/2015		34 84	NE	<0.01	<0 03	<0.0002	<0.0002	0.001 J	<0.0002	0.034	0.0025	<0 01	<0.02	<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 03	0.000037 J	0.0012	<0.01	0.000049 J	0.084 E J	0.01	<0 01	<0.02	<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 03	0.000042 J	0.00049	<0.01	<0.0002	0.027	0.0099	<0 01	<0.02	<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 03	<0.001	0.00091 J	<0.01	<0 001	0.062	0 013	<0 01	<0.02	<0.01	<0 01	<0.02	0 00054 J	<0.01	<0.001	<0.01 UJ
	P66-ROX-101416	10/14/2016		32 61	NE	<0.0095 UJ	<0.029 UJ	<0 00095	0 001 *	0.0028 J H J	<0.00095	0.056	0 028	<0 0095 UJ	<0 019 UJ	<0.0095 UJ	<0 0095 UJ	<0 019 UJ	<0 00095	<0.0095 UJ	0.00011 J *	<0 0095 UJ
	P66-ROX-011117	1/11/2017		32.41	NE	<0 0097	<0.029	<0 00097	<0.00097	0.006 J	<0.00097	0.011	<0.00097	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00097	<0.0097	0.00015 J	<0.0097
	P66-ROX-041317	4/13/2017		32.19	NE	<0 0098	<0 03	<0.0002	0.00053	0.001 J	<0.0002	0.022	0.0058	<0.0098	<0.02	<0 0098	<0.0098	<0 02	0.0001 J	<0.0098	0.000058 J	<0.0098
	P66-ROX-071217	7/12/2017	34.72 - 59.72	31 38	NE	<0.01	<0 03	<0.0004	<0.0004	0.0019 J	<0.0004	0.051 H J	0.03	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0004	<0.01	0 00022 J J	<0 01
P-74	P74-ROX-101414	10/14/2014	44.427 - 69.427	41.48	NE	<0.005	<0 02	<0.0001	<0.0001		<0.0001	<0.002	<0.002	<0 01	<0.01	<0 005	<0 01	<0.01	<0 00005	<0 005	<0 0001	<0 01
	P74-ROX-011915	1/19/2015		43.47	NE	<0 0053	<0.021	0.000053 J	0.00023		<0.00011	0 0077	0.0107	<0.011	<0.011	<0 0053	<0 011	<0.011	0.00015 B	0.0169	0.000038 J	<0.011
	P74-ROX-041515	4/15/2015		44 61	NE	<0 0052	<0.021	<0.0001	<0.0001		<0.0001	<0.0021	<0 0021	<0 01	<0.01	<0.0052	<0 01	<0.01	<0.000052	<0.0052	<0 0001	<0 01
	P74-ROX-071015	7/10/2015		43 28	NE	<0 0054	<0.022	0.000019 J	<0.00011		<0.00011	0.00002 JB J	0.000029 JB J	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P74-ROX-101415	10/14/2015		41.75	NE	0.00089 J	<0 03	<0.0002	0.00012 J	0.0022 J	<0.0002	0 0032	0.0031	<0 01	<0.02	<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	0.00063 J B	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	0.000022 J	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 0011	0.0011	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0.01 UJ
	P74-ROX-101416	10/14/2016		39.44	NE	0 00047 J H J	<0.029 UJ	<0 00019	0.000086 J *	<0.0095 UJ	<0.00019	0 0017	0.0018	<0 0095 UJ	<0 019 UJ	<0.0095 UJ	<0 0095 UJ	<0 019 UJ	0.000034 J * J	<0 0095 UJ	<0.00019	<0 0095 UJ
	P74-ROX-011217	1/12/2017		38 64	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	0.000037 J	<0 01
	P74-ROX-040717	4/7/2017		38 92	NE	<0 01 UJ	<0.031 UJ	<0 00022	<0.00022	<0.01 UJ	<0.00022	<0 00022	<0.00022	<0.01 UJ	<0 021 UJ	<0 01 UJ	<0.01 UJ	<0 021 UJ	<0 00022	<0.01 UJ	<0.00022	<0.01 UJ
	P74-ROX-071217	7/12/2017	44.427 - 69.427	38 08	NE	<0 0099	<0 03	<0.0002	0.000065 J	<0 0099	<0.0002	0.00059	0.00042	<0.0099	<0.02	<0 0099	<0.0099	<0 02	<0.0002	<0.0099	<0 0002	<0.0099
P-93A	P93A-ROX-101514	10/15/2014	48.166 - 63.166	45 06	NE	<0 0052	<0.021	<0.0001	0.00037		<0.0001	0 0114	0.0095	<0 01	<0.01	<0.0052	<0 01	<0.01	0.0003	0.0471	<0 0001	<0 01
	P93A-ROX-101514-DUP	10/15/2014		45 06	NE	<0.0054 UJ	<0.022 UJ	<0.00011 UJ	0.00039 J		<0 00011 UJ	0.0122 J	0 0101 J	<0.011 UJ	<0 011 UJ	0.0011 J J	<0.011 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	<0.025	<0.001	<0 001		<0.0002	0.008	0.0038	<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	<0.021	0.000017 J	0.00021		<0.00011	0 0061	0.0028	<0.011	0 00063 J	<0 0053	<0 011	<0.011	0 00018	0.0251	0.000026 J	<0.011
	P93A-ROX-071315	7/13/2015		45 93	NE	<0 0052	<0.021	0.000025 J	0.00022		<0.0001	0 0056	0.0032	<0 01	<0.01	<0.0052	<0 01	<0.01	0 00018	0.128	0.000032 J	<0 01
	P93A-ROX-101515	10/15/2015		43 69	NE	<0.01	<0 03	<0.0002	0.00012 J	<0.01	<0.0002	0 0041	0.0016	<0 01	0.0021 J	<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 03	<0.0002	0.00013 J	<0.01	<0.0002	0.004	0.0016	<0 01	0.0023 J	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.0047 J	0 0018 J	<0 01	0.002 J	<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 03	<0.0002	0.00018 J	<0.01	<0.0002	0.0064 J	0 0031 J	<0 01	0.003 J	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00051	0.00016 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.00062	0.00025	<0 01	<0.02	<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 0012 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.00022	0 0001 J	<0 01	<0.02	<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 03	<0.0002	0.00007 J	<0.01	<0.0002	0.00025	0.00012 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.0078 J	<0 0002	<0.01 UJ
	P93A-ROX-101816	10/18/2016		41 35	NE	0 00093 J J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00014 J	0.000068 J	<0 01	<0.02	<0.01	0.00067 J	<0 02	<0.0002	0.042	<0 0002	<0 01
	P93A-ROX-101816-DUP	10/18/2016		41 35	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0 00018 J	0.000093 J	<0 01	<0.02	<0.01	0.0017 J	<0.02	<0.0002	0.051	<0 0002	<0 01
	P93A-ROX-011217	1/12/2017		41 04	NE	0 0008 J B	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	0 00013 J	0.000095 J	<0.0098	<0.02	<0.0098	<0.0098	<0.02	<0.0002	<0.0098	<0 0002	<0.0098
	P93A-ROX-011217-DUP	1/12/2017		41 04	NE	0 0006 J B	<0.032	<0 00021	<0.00021	<0.011	<0.00021	0 00015 J	0 0001 J	<0.011	<0.021	<0.011	<0 011	<0.021	<0 00021	<0 011	<0.00021	<0.011
	P93A-ROX-040717	4/7/2017		41 26	NE	<0.0095 UJ	<0.029 UJ	0.000045 J	<0.00019	<0.0095 UJ	0.0002	<0 00019	<0.00019	<0 0095 UJ	<0 019 UJ	<0.0095 UJ	<0 0095 UJ	<0 019 UJ	<0 00019	0 0077 J H J	0.000035 J	<0 0095 UJ
	P93A-ROX-040717-DUP	4/7/2017		41 26	NE	<0.011 UJ	<0.032 UJ	<0 00021	<0.00021	<0 011 UJ	0.000046 J	<0 00021	<0.00021	<0.011 UJ	<0 021 UJ	<0.011 UJ	<0.011 UJ	<0 021 UJ	<0 00021	0.01 J H J	<0.00021	<0.011 UJ
	P93A-ROX-071317	7/13/2017	43.07 - 53 07	40.11	NE	<0.019	<0.056 UJ	<0 00037	<0.00037	<0.019	<0.00037	0 00016 J	0.00018 J	<0.019	<0.037	<0.019	<0.019	<0 037 UJ	<0 00037	<0 019	<0.00037	<0.019

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
P-93B	P93B-ROX-101514	10/15/2014	74 6 - 76 6	45.15	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0 011	<0.011	<0.000056	0.128	<0.00011	<0.011
	P93B-ROX-012315	1/23/2015		47 24	NE	<0 0053	<0.021	<0 00011	<0.000017 U		<0.00011	0 00002 J	<0 0021	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	0.0979	<0.00011	<0.011 UJ
	P93B-ROX-012315-DUP	1/23/2015		47 24	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0.000023 J	0.000041 J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000024 U	0.123	<0.00011	<0.011 UJ
	P93B-ROX-021915	2/19/2015		47 24	NE																	
	P93B-ROX-041615	4/16/2015		48.42	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	0 000034 JB J	0 00008 JB J	<0.011	<0.011	<0.0053	<0 011	<0.011	<0.000053	0.104 J	<0.00011	<0.011
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0 0053	<0.021	<0 00011	0.00002 J		<0.00011	0 000028 JB J	0.000048 JB J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	0.08 J	<0.00011	<0.011
	P93B-ROX-070915	7/9/2015		47.74	NE	<0 0051	<0 02	0.000035 J	0.000031 J		<0.0001	0.000041 J	0.000059 J	<0 01	<0.01	<0 0051	<0.01	<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 02	0.000029 J	0.000095 J		<0.0001	0.000058 J	0.000077 J	<0 01	<0.01	<0 0051	<0.01	<0 01	0.00031 J	0.0909	<0 0001	<0 01
	P93B-ROX-101515	10/15/2015		45.18	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	0 21	<0 0002	<0 01
	P93B-ROX-071516	7/15/2016		43 65	NE	<0 0011 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.41	<0 0002	<0.01 UJ
	P93B-ROX-101816	10/18/2016		42.73	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	0.085	<0 0002	<0 01
	P93B-ROX-011017	1/10/2017		42.41	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	0 35	<0 0002	<0 01
	P93B-ROX-011017-DUP	1/10/2017		42.41	NE	<0 0098	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0.0098	<0.0098	<0 02	<0.0002	0.17	<0 0002	<0.0098
	P93B-ROX-040617	4/6/2017		42 59	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	0.14	<0.00019	<0.0095
	P93B-ROX-07117	7/11/2017	74 6 - 76 6	41 59	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	0.16	<0.00019	<0 0095 UJ
	P93B-ROX-07117-DUP	7/11/2017	74 6 - 76 6	41 59	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	0 22	<0.00019	<0 0096 UJ
P-93C	P93C-ROX-101514	10/15/2014	94 255 - 96 255	44 99	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0056	<0 011	<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	<0.022	<0 00011	<0.00011		<0.00011	<0.000033 U	<0.000042 U	<0.011	<0.011	<0 0054	<0 011	<0.011	<0.000033 U	0.0309	<0.00011	<0.011
	P93C-ROX-021915	2/19/2015		48 22	NE																	
	P93C-ROX-041615	4/16/2015		48 22	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0.00006 JB J	0.000084 JB J	<0.011	<0.011	<0.0054	<0 011	<0.011	0 000024 J	0.0215	<0.00011	<0.011
	P93C-ROX-071315	7/13/2015		47 09	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	0 000095 JB J	0 00016 JB J	<0.011	<0.011	<0.0054	<0 011	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P93C-ROX-101415	10/14/2015		44 91	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.0001 J	0.00013 J	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	P93C-ROX-010816	1/8/2016		44 68	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<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	<0.03 UJ	0 000023 J J	<0.0002 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	<0.02 UJ	<0 0002 UJ	<0.01 UJ	<0.0002 UJ	<0.01 UJ
	P93C-ROX-071216	7/12/2016		43 37	NE	0 00053 J J	<0 03	<0.0002	<0.0002	<0.01	0.000044 J	0.000055 J	0.000053 J	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	P93C-ROX-101816	10/18/2016		42.49	NE	0.00046 J	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	0.000048 J	0.000063 J	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	P93C-ROX-011117	1/11/2017		42 20	NE	0.00062 J	<0.029	<0.0002	<0.0002	<0 0098	<0.0002	<0.0002	<0 0002	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0.0002	<0.0098	<0 0002	<0.0098
	P93C-ROX-040517	4/5/2017		42.19	NE	<0 0095	<0.028	<0 00019	<0.00019	<0 0095	0.000051 J	0.000033 J	0.000037 J	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	P93C-ROX-071217	7/12/2017	92.47 - 97.47	41 30	NE	<0 0098	<0 03	<0 00039	<0.00039	<0 0098	<0.00039	0.000083 J	<0.00039	<0.0098	<0.02	<0 0098	<0.0098	<0 02	<0 00039	<0.0098	<0.00039	<0.0098
P-93D	P93D-ROX-101514	10/15/2014	125.75 - 127.75	45.14	NE	<0 0054	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	<0.011	<0.0054	<0 011	<0.011	0 000019 J	0.0458	<0.00011	<0.011
	P93D-ROX-110414	11/4/2014		45.14	NE																	
	P93D-ROX-012315	1/23/2015		42 28	NE	<0 0053	<0.021	<0 00011	<0.00011		<0.00011	<0.0021	0.000019 J	<0.011	<0.011	<0 0053	<0 011	<0.011	<0.000053	0.044	<0.00011	<0.011 UJ
	P93D-ROX-021915	2/19/2015		42 28	NE																	
	P93D-ROX-042015	4/20/2015		48 52	NE	<0 0052	<0.021	0.000024 J	0.00002 J		<0.0001	0 00012 J	0.00016 J	<0 01	<0.01	<0 0052	<0.01	<0 01	0 000017 J	0.0395	0.000021 J	<0 01
	P93D-ROX-070915	7/9/2015		47 96	NE	<0 0051	<0 02	0.000025 J	0.000019 J		<0.0001	0.000026 J	0.000038 J	<0 01	<0.01	<0 0051	<0.01	<0 01	0 000043 J	0.0278	0.000026 J	<0 01
	P93D-ROX-101515	10/15/2015		45 28	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000021 J	<0 0002	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	0.063	<0 0002	<0 01
	P93D-ROX-041916	4/19/2016		44 61	NE	0.00057 J	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000032 J	0.000036 J	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0 02	<0.0002	<0.01	<0 0002	<0.01 UJ
	P93D-ROX-101716	10/17/2016		42.78	NE	<0.0095 UJ	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	P93D-ROX-011017	1/10/2017		42 59	NE	<0 0005 U	<0.029	<0 00019	<0.00019	<0 0097	<0.00019	<0 00019	<0.00019	<0.0097	<0.019	<0 0097	<0.0097	<0.019	<0 00019	<0.0097	<0.00019	<0.0097
	P93D-ROX-040617	4/6/2017		42 80	NE	<0 0095	<0.028	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	P93D-ROX-07117	7/11/2017	125.75 - 127.75	41 64	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	<0.0096	<0.00019	<0 0096 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
P-114	P114-ROX-101714	10/17/2014	32 672 - 52 672	29.43	NE	<0 0057	<0.023	<0 00011	<0.00011		<0.00011	<0.0023	<0 0023	<0.011	<0.011	<0.0057	<0 011	<0.011	<0.000057	<0.0057	<0.00011	<0.011 UJ
	P114-ROX-012115	1/21/2015		31 53	NE	<0 0056	<0.022	<0 00002 U	0.000048 J		<0.00011	<0.000092 U	<0.00012 U	<0.011	<0.011	<0 0056	<0 011	<0.011	<0.000046 U	<0.0056	<0.000042 U	<0.011 UJ
	P114-ROX-041715	4/17/2015		NM	NE	<0 0053	<0.021	0.000023 J	<0.00011		<0.00011	0 000025 JB J	0.000029 JB J	<0.011	<0.011	<0 0053	<0 011	<0.011	0 000039 J	<0.0053	0.000027 J	<0.011
	P114-ROX-070815	7/8/2015		29.16	NE	<0.005	<0 02	<0.0001	0.000033 J		<0.0001	<0.002	<0.002	<0 01	<0.01	<0 005	<0 01	<0.01	0.000023 J	<0 005	0.000032 J	<0 01
	P114R-ROX-100515	10/5/2015	23.01 - 33 01	28.15	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	P114R-ROX-010716	1/7/2016	-			<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.000081 J	0.000095 J	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	P114R-ROX-040816	4/8/2016				<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	<0.01	<0 0002	<0 01
	P114R-ROX-070816	7/8/2016				<0.05	<0.15	<0.0002	<0.0002	<0.05	<0.0002	<0.0002	<0 0002	<0 05	<0.1	<0.05	<0 05	<0.1	<0.0002	<0.05	<0 0002	<0.05 UJ
P-114R	P114R-ROX-100716	10/7/2016	23.01 - 33 01	23 89	NE	<0 0095	<0.029	<0 00019	<0.00019	<0 0095	<0.00019	<0 00019	<0.00019	<0.0095	<0.019	<0 0095	<0.0095	<0.019	<0 00019	<0.0095	<0.00019	<0.0095
	P114R-ROX-010617	1/6/2017		24 81	NE	<0.00063 U	<0 03	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0 02	<0.0002	<0.01	<0 0002	<0 01
	P114R-ROX-041317	4/13/2017		25 05	NE	<0.01	<0 03	<0.0002	0 0001 J	<0.01	<0.0002	<0.0002	<0 0002	<0 01	<0.02	<0.01	<0.01	<0.02	0 00011 J	<0.01	<0 0002	<0 01
	P114R-ROX-071117	7/11/2017	23.01 - 33 01	22.45	NE	<0 0096	<0.029	<0 00019	<0.00019	<0 0096	<0.00019	0.000095 J	0.00014 J	<0.0096	<0.019	<0.0096	<0.0096	<0.019	0 00015 J	<0.0096	<0.00019	<0 0096 UJ
ROST-3-MW	ROST3MW-ROX-100914	10/9/2014	37.81 - 47 81	41 31	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	0 00075 J	0.00057 J	<0.011	<0.011	<0 0056	<0 011	<0.011	0.00014 B	<0.0056	<0.00011	<0.011
	ROST3MW-ROX-011515	1/15/2015		41 83	NE	<0 0057	<0.023	0 000022 J J	0.000035 J J		<0.00011	0.001 J	0.00024 J	<0.011	<0.011	<0 0057	<0 011	<0.011	0.0001 J	<0.0057	0.000033 J J	<0.011
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	<0 0052	<0.021	<0.0001	0.00003 J		<0.0001	0.001 J	0 0005 J	<0 01	<0.01	<0.0052	<0 01	<0.01	0 00011	<0.0052	0.000019 J	<0 01
	ROST3MW-ROX-071315	7/13/2015		42 36	NE	<0 0053	<0.021	<0 00011	0.000048 J		<0.00011	0.0014 J	0.00084 JB	<0.011	<0.011	<0.0053	<0.011	<0.011	0.00011 B	<0.0053	0.000018 J	<0.011
	ROST3MW-ROX-101215	10/12/2015		40 29	NE	0 0028 J	<0 03	0.000056 J	0.000086 J	<0.01	0.000092 J	0 0025	0.0023	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0 0017	0.0014	<0 01	<0.02	<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 03	<0.0002	<0.0002	<0.01	<0.0002	0.002	0.00013 J	<0 01	<0.02	<0.01	<0 01	<0.02	0.000081 J	<0.01	<0 0002	<0 01
	ROST3MW-ROX-071416	7/14/2016		38.70	NE	<0.00097 U	<0 03	<0.0002	0.000043 J	<0.01	<0.0002	0 0013	0.00077	<0 01	<0.02	<0.01	<0.01	<0.02	0 00011 J	<0.01	<0 0002	<0 01
	ROST3MW-ROX-101316	10/13/2016		38.19	NE	<0 0098	<0.029	<0.0002	0.00011 J	<0 0098	<0.0002	0 0033	0.0034	<0.0098	<0.02	<0.0098	<0.0098	<0 02	0.00019 J	<0.0098	<0 0002	<0.0098
	ROST3MW-ROX-011117	1/11/2017		37 50	NE	<0 0093	<0.028	<0 00019	<0.00019	<0 0093	<0.00019	0 0038	<0.00019	<0.0093	<0.019	<0 0093	<0.0093	<0.019	<0 00019	<0.0093	<0.00019	<0.0093
	ROST3MW-ROX-041417	4/14/2017		38.16	NE	<0.00064 U	<0.029	<0 00019	0.000065 J	<0 0095	<0.00019	0 0025	<0.00019	<0.0095	<0.019	<0.0095	<0.0095	<0.019	0.000085 J	<0.0095	<0.00019	<0.0095
	ROST3MW-ROX-071117	7/11/2017	37.81 - 47 81	36 61	NE	<0.01	<0 03	<0.0002	0.000085 J	<0.01	<0.0002	0 0029	0.0014	<0 01	<0.02	<0.01	<0 01	<0.02	0 00018 J	<0.01	0.00003 J	<0.01 UJ
ROST-4-PZ(C)	ROST4PZC-ROX-100914	10/9/2014	34.95 - 44 95	41 30	NE	<0 0056	<0.022	<0 00011	<0.00011		<0.00011	<0.0022	<0 0022	<0.011	0 00071 J	<0 0056	<0 011	<0.011	<0.000088 U	0.00088 J	<0.00011	<0.011
	ROST4PZC-ROX-011515	1/15/2015		41 65	NE	<0 0057	<0.023	<0 00011	<0.00011		<0.00011	0.000038 J	0.000018 J J	<0.011	<0.011	<0 0057	<0 011	<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 02	<0.0001	<0.0001		<0.0001	0.0012 J	0.00038 JB	<0 01	0.0011 J	<0.0051	<0.01	<0 01	0.000075	<0.0051	0.000022 J	<0 01
	ROST4PZ-ROX-071315	7/13/2015		42 59	NE	<0 0052	<0.021	<0.0001	0.00005 J		<0.0001	0 0095	0.0077	<0 01	<0.01	<0.0052	<0 01	<0.01	0.00011 B	<0.0052	0.000025 J	<0 01
	ROST4PZC-ROX-101215	10/12/2015		40 35	NE	<0.01	<0 03	<0.0002	<0.0002	0.0012 J	<0.0002	0.013	0 011	<0 01	0.0051 J	<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 03	<0.002	<0 002	<0.01	<0 002	0.02	0.02	<0 01	0.001 J	<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 03	0.000026 J	0.00026	<0.01	<0.0002	0.02	0 016	<0 01	<0.02	<0.01	<0 01	<0.02	0 00021	<0.01	0.000028 J	<0 01
	ROST4PZC-ROX-071516	7/15/2016		38 93	NE	<0.00081 U	<0 03	<0.0002	0.00019 J	<0.01	<0.0002	0 0035	<0 0002	<0 01	<0.02	<0.01	<0 01	<0.02	0 00013 J	<0.01	<0 0002	<0.01 UJ
	ROST4PZC-ROX-101316	10/13/2016		38.45	NE	<0 0096	<0.029	<0 00019	0.00059	<0 0096	<0.00019	0.057	0 063	<0.0096	<0.019	<0 0096	<0.0096	<0.019	0 00098	<0.0096	0.000023 J	<0.0096
	ROST4PZC-ROX-011217	1/12/2017		37 88	NE	0.00057 J B	<0.028	0 00002 J	0.00093	<0 0094	<0.00019	0.048	0 057	<0.0094	<0.019	<0.0094	<0.0094	<0.019	0.0022	<0.0094	0.000048 J	<0.0094
	ROST4PZC-ROX-041717	4/17/2017		38 24	NE	<0 0097	<0.029	0.000022 J	0.00066	<0 0097	<0.00019	0.026	0 016	<0.0097	<0.019	<0 0097	<0.0097	<0.019	0 00045	<0.0097	0.000043 J	<0.0097
	ROST4PZC-ROX-071217	7/12/2017	34.95 - 44 95	37 20	NE	<0.01	<0.03 UJ	<0.0002	0.00013 J	<0.01	<0.0002	0 00014 J	<0 0002	<0.01 UJ	0.0026 J J	<0.01	<0.01 UJ	<0.02 UJ	<0.0002	<0.01 UJ	<0 0002	<0 01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Di-n-octyl phthalate**	**2,4-Dinitrophenol**	**Fluoranthene**	**Fluorene**	**ndene**	**ndeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**2-Methylphenol (o-Cresol)**	**3 & 4-Methylphenol (m & p-Cresol)**	**Nitrobenzene**	**2-Nitrophenol**	**Pentachlorophenol**	**Phenanthrene**	**Phenol**	**Pyrene**	**Pyridine**
	Screening Values (mg/L)					**0.014** [2]	**0.0077** [1]	**0.28** [1]	**0.28** [1]		**0.00043** [1]	**0.49** [3]	**0.028** [1]	**0.35** [1]	**0.35** [3]	**0.014** [1]		**0.001** [1]	**0.21** [3]	**0.1** [1]	**0.21** [1]	**0.007** [3]
T-12	T12-ROX-101714	10/17/2014	46.718 - 72.718	44.40	NE	<0 0056	<0.022	<0 00011	0.00031		<0.00011	0.022	0.0369	0 003 J	0.0059 J	<0 0056	<0 011	<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	<0.021	<0 00011	0.00032	0.0069 JN	<0.00011	0.021	0.0332	0.0055 J	0.0016 J	<0.0053	<0.011	<0.011	0 00082	0.0155	0.000055 J	<0.011
	T12-ROX-041515	4/15/2015		46.73	NE	<0 0056	<0.022	0.000024 J	0.00032		<0.00011	0.021	0 0335 J	0.0021 J	0.0042 J	<0 0056	<0 011	<0.011	0 00086	0.0099	0.000052 J J	<0.011
	T12-ROX-071015	7/10/2015		46 09	NE	<0 0054	<0.022	0.000027 J	0.00029		<0.00011	0 0178	0.0301	<0.011	<0.011	<0 0054	<0 011	<0.011	0 00083	0.0221	0.000053 J	<0.011
	T12-ROX-101515	10/15/2015		43.72	NE	<0.01	<0 03	<0.0002	<0.0002	<0.01	<0.0002	0.017	0 024	<0 01	<0.02	<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 03	<0.0004	0.00033 J	<0.01	<0.0004	0.021	0 031	<0 01	<0.02	<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 03	0.000027 J	0.0003	<0.01	<0.0002	0.017	0 024	<0 01	<0.02	<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 00076 J J	<0 03	<0.0002	0.00022	<0.01	<0.0002	0 0072	0 002	<0 01	<0.02	<0.01	<0 01	<0.02	<0.0002	0.038	0.000048 J	<0.01 UJ
	T12-ROX-101716	10/17/2016		41.19	NE	<0 0098	<0.029	<0.0002	0.00028	<0 0098	<0.0002	0.017	0 021	<0.0098	<0.02	<0.0098	<0.0098	<0.02	0.0006	0.073	<0 0002	<0.0098
	T12-ROX-011217	1/12/2017		40.70	NE	0.00053 J B	<0.029	<0.0002	<0.0002	0.0018 J	<0.0002	0 0039	0.00028	<0.0098	0.001 J	<0.0098	<0.0098	<0 02	<0.0002	0.13	0.00007 J	<0.0098
	T12-ROX-040617	4/6/2017		41.18	NE	<0.0096 UJ	<0.029	<0 00019	<0.00019	0.0044 J	<0.00019	<0 00019	<0.00019	<0.0096	<0.019	<0 0096	<0.0096	<0.019	<0 00019	0.021	<0.00019	<0.0096
	T12-ROX-071317	7/13/2017	46.83 - 72 83	40.10	NE	<0 0095	<0.029 UJ	0.000041 J	0.00027	0.0014 J	<0.00019	0.018	0 026	<0.0095	<0.019	<0.0095	<0.0095	<0 019 UJ	0 00053	0.028	0.000072 J	<0.0095

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 I Tables).

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

	Indicates a historical exceedance or screening criteria.
	Indicates a current exceedance or screening criteria.
R	Indicates current quarter analyte result was rejected.
NA	Indicates current quarter analyte result was not analyzed.
	Empty cell without a value indicates previous quarter analyte result was rejected or the analyte was not part of method list when sampled.

LABORATORY QUALIFIERS

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

D = The result is from a diluted sample.

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).

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:

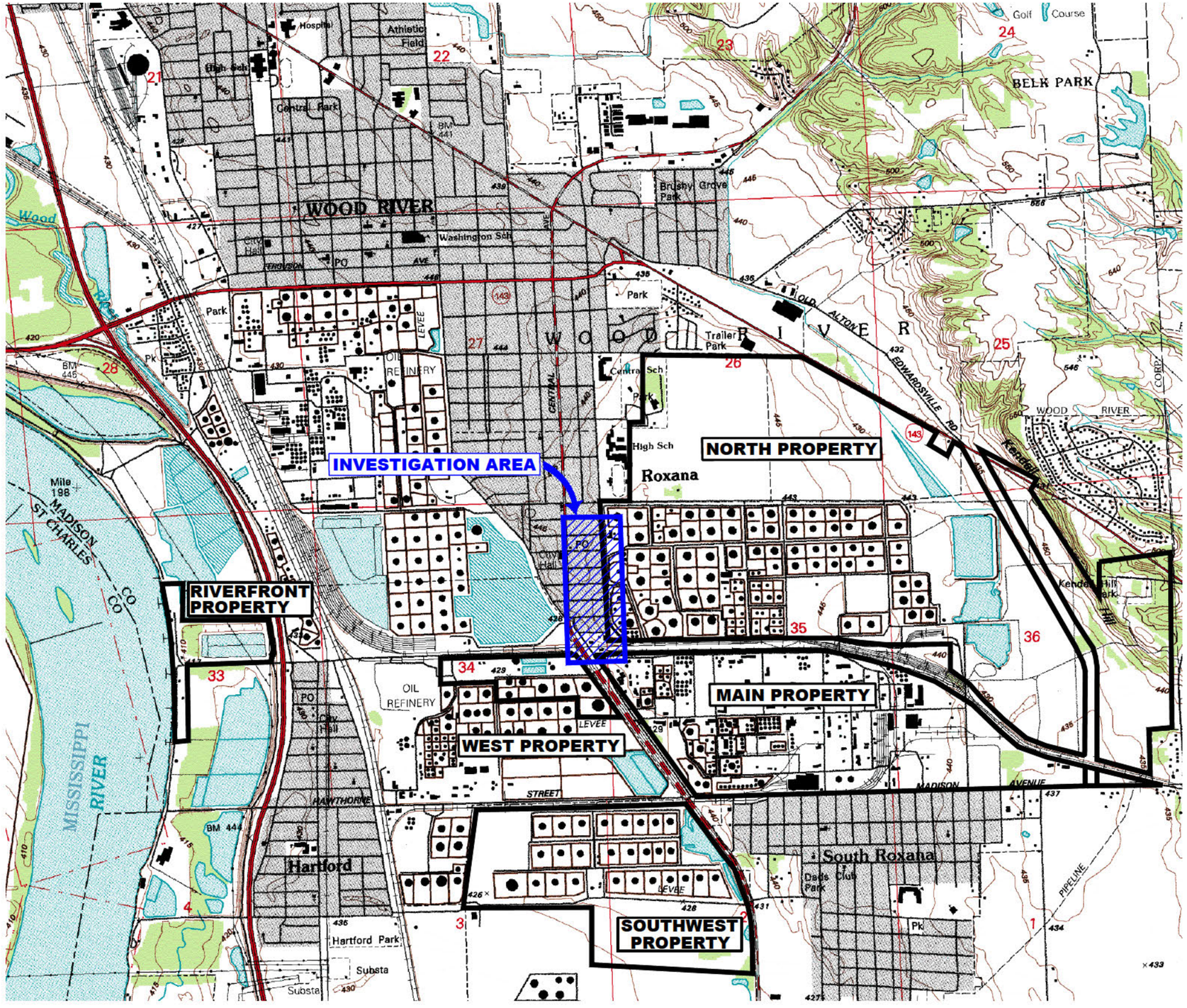
Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in two dimensions (2D). Regardless of sample depth, benzene concentrations were modeled on a flat horizontal plane.

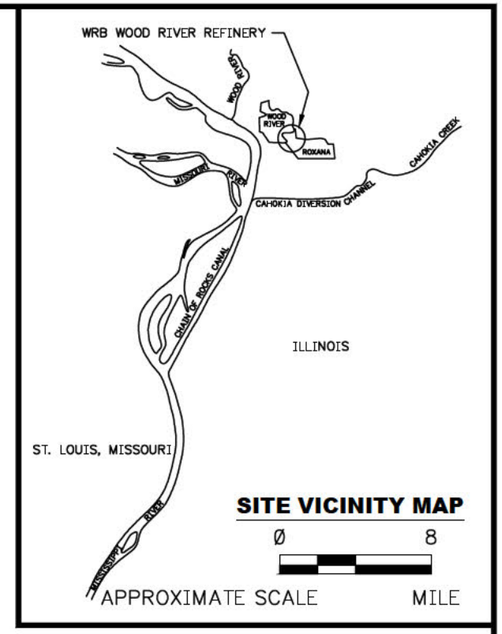
Inward Kriging / Boundary Cut-off – This method of Kriging limits the horizontal extent of data modeling to the extent of the data on the x/y plane in a convex hull.

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.





LEGEND

- WOOD RIVER REFINERY PROPERTY BOUNDARY
- INVESTIGATION AREA

SOURCE: ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, IL–MO REVISED 1994.

Ø 2000
APPROXIMATE SCALE FEET

N

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60527968
AECOM	
DRN. BY: djd October 2017 DSGN. BY: djd CHKD. BY: bj	3Q17 Investigation Area Location Map
	FIG. NO. 1

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DEL)\CW MONITORING REPORTS\2017\DRAFT REPORT\FIGURES\FIGURE 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 09/13/17 @ 7:14 p.m. @ MCC-STLOUIS

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 2 GROUNDWATER MONITORING WELL SAMPLING LOCATIONS.DWG Last edited: SEP. 18, 17 @ 3:42 p.m. by: david.degulre

LEGEND

- ROXANA INTERIM GROUNDWATER MONITORING WELL LOCATION
- GROUNDWATER MONITORING WELL LOCATION (NOT INCLUDED IN THE ROXANA INTERIM GROUNDWATER MONITORING PROGRAM)
- GROUNDWATER PIEZOMETER LOCATION
- GROUNDWATER PIEZOMETER LOCATION (NOT INCLUDED IN THE ROXANA INTERIM GROUNDWATER MONITORING PROGRAM)
- * ROXANA INTERIM GROUNDWATER MONITORING WELL SAMPLING LOCATION

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
WEST PROPERTY
MAIN PROPERTY
BP
1986 APPROXIMATE BENZENE RELEASE SITE

T-1
PZ-1(101)
PZ-1(85)
MW-10*
MW-9*
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-68*
P-60-13
P-54*
MW-17
T-12*
MW-24*
MW-22*
P-69
A-28
T-24
A-27
P-70
MW-18
P-74*
MW-19
P-59*
P-61
FIFTH ST
MW-16*
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*
P-93A*
P-93B*
P-93C*
P-93D*
P-73
MW-3*
MW-25*
MW-23*
MW-5*
MW-7*
MW-8*
P-58*
P-66*
P-75
MW-13*
MW-6A*
MW-6B*
MW-6C*
MW-6D*
MW-14*
P-114R*

Ø 200 SCALE FEET

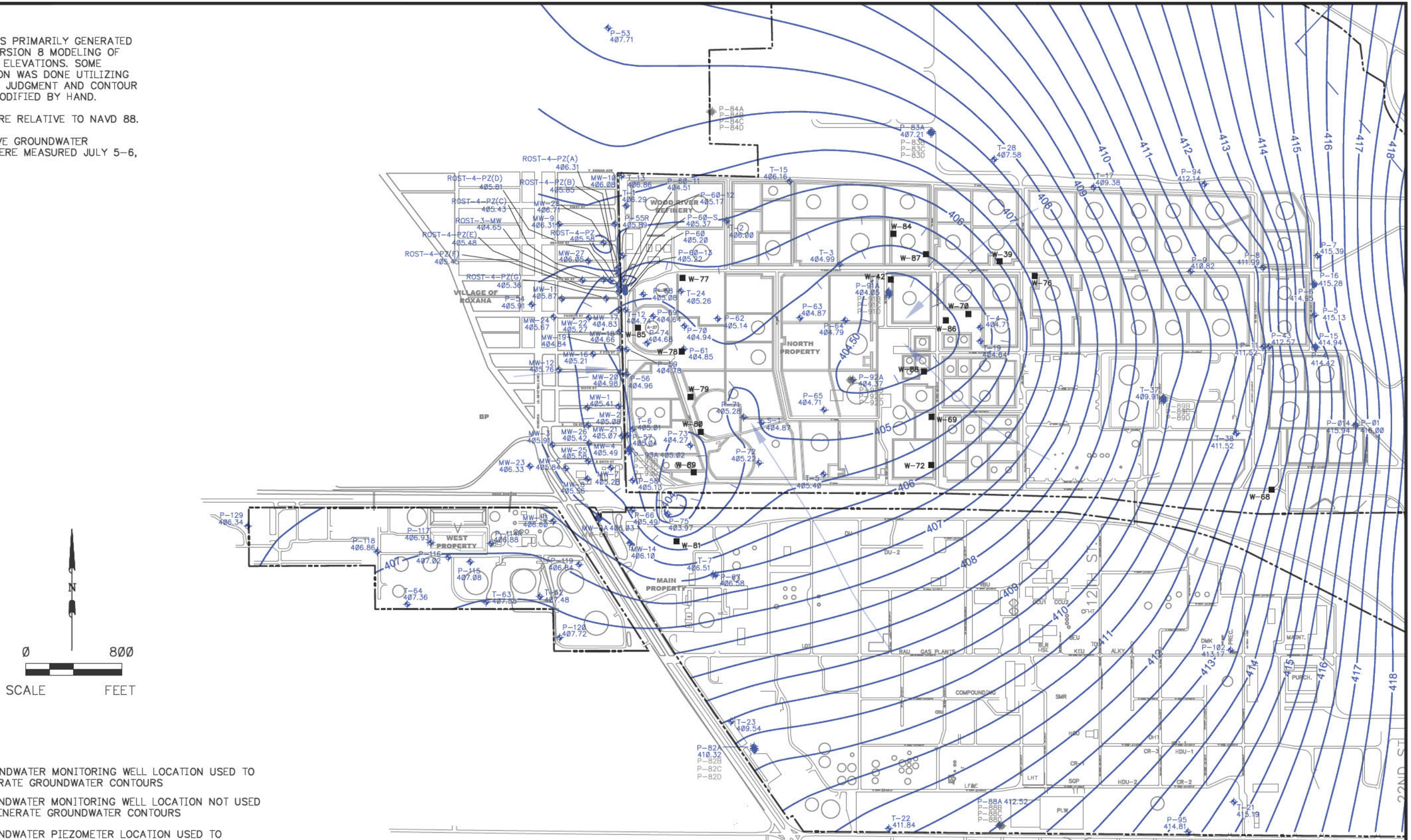
N

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60527968
AECOM		
DRN. BY:djd October 2017 DSGN. BY:lr CHKD. BY:b3	3Q17 Roxana Interim Groundwater Monitoring Well 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 NAVD 88.

3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED JULY 5–6, 2017.



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
- —407— GROUNDWATER SURFACE CONTOUR NAVD 88 (CONTOUR INTERVAL Ø.5 FT.)
- GROUNDWATER GRADIENT

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60527968

AECOM

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

Groundwater Contours 3Q17

FIG. NO. 3a

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 3A ROXANNA 3Q17 CONTOUR MAP (800 SCALE).DWG Last edited: SEP. 13, 17 @ 11:25 a.m. by: david.deguire

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 3B ROXANNA 3Q17 CONTOUR MAP.DWG Last edited: SEP. 13, 17 @ 11:20 a.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 NAVD 88.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED JULY 5–6, 2017.

FIRST ST
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
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
BP
1986 APPROXIMATE BENZENE RELEASE SITE

T-1 406.29
PZ-1(101) PZ-1(85)
MW-10 406.08
MW-9 406.31
MW-28 406.71
MW-27 406.05
ROST-4-PZ(A) 406.31
P-55R 405.89
ROST-4-PZ 405.58
ROST-4-PZ(B) 405.85
P-60-11 404.51
ROST-4-PZ(C) 405.43
ROST-4-PZ(D) 405.81
P-60 405.20
W-77
ROST-3-MW 405.65
ROST-4-PZ(E) 405.48
P-60-S 405.37
P-60-12 405.17
A-28
MW-11 405.87
ROST-4-PZ(F) 405.45
P-68 405.08
T-24 405.26
P-54 405.91
P-60-13 405.22
ROST-4-PZ(G) 405.36
MW-17 404.83
T-12 404.74
P-69 404.64
MW-22 405.27
MW-24 405.67
W-85
A-27
MW-18 404.66
P-70 404.94
P-74 404.68
MW-19 404.84
P-61 404.85
W-78
P-59 404.78
MW-16 405.21
GP-9-PZ
PZ-2(84) PZ-2(70.5)
P-56 404.96
MW-12 405.76
MW-20 404.98
W-79
MW-1 405.41
MW-2 405.08
MW-26 405.42
T-6 405.01
MW-21 405.07
P-57 405.04
MW-4 405.49
MW-3 405.91
P-73 404.27
P-93A 405.02
P-93B
P-93C
P-93D
MW-25 405.58
MW-7 405.28
W-89
MW-23 406.33
MW-5 405.84
P-58 405.13
MW-8 405.56
P-66 405.49
P-75 403.97
406.03 MW-6A
MW-6B
MW-6C
MW-6D
MW-13 406.60
MW-14 406.10
W-81
P-114R 406.88

406
405
404

0 200 FEET SCALE
N

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60527968
AECOM		
DRN. BY:djd October 2017 DSGN. BY:lr CHKD. BY:bbb	Groundwater Contours 3Q17– West Fenceline	FIG. NO. 3b

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 4A THICKNESS OF LNAPL (WEST FENCLINE).DWG Last edited: AUG. 14, 17 @ 8:58 p.m. by: david.dequire

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 JULY 5–6, 2017.

P–84A
P–84B
P–84C
P–84D

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

PZ–1(101) PZ–1(85) MW–9 MW–10
ROST–4–PZ(A) MW–28 ROST–4–PZ(B) ROST–4–PZ(D) MW–27 ROST–4–PZ(C) ROST–3–MW ROST–4–PZ(E) ROST–4–PZ(F) ROST–4–PZ(G) MW–11 P–54 MW–17 MW–24 MW–22 MW–18 MW–19 MW–16 MW–12 PZ–2(84) PZ–2(70.5) MW–20 MW–2 MW–1 MW–26 MW–21 MW–3 MW–4 MW–25 MW–23 MW–5 MW–8 MW–7 MW–13 P–117 P–114R P–116 P–115 P–119 MW–6 MW–14 R–66 P–75 R–81 P–67 T–7
P–55R 0.01 0.09*
P–60–11 P–60–S P–60–12 ROST–4–PZ
P–60 0.01 0.02*
P–68 0.01 0.02*
P–60–13 T–12 P–69 A–27 P–74 P–59 R–78
T–24 0.10 0.12* A–33 A–28 R–77
P–62 0.01 0.05*
P–70 0.01 0.03*
P–61 0.10 0.11*
T–13 T–1 T–2 P–56 R–79 R–80 T–6 P–57 P–73 P–93A P–93B P–93C P–93D P–58 R–89 P–71 S–1 0.01 0.06 P–72

0 300
SCALE FEET
N

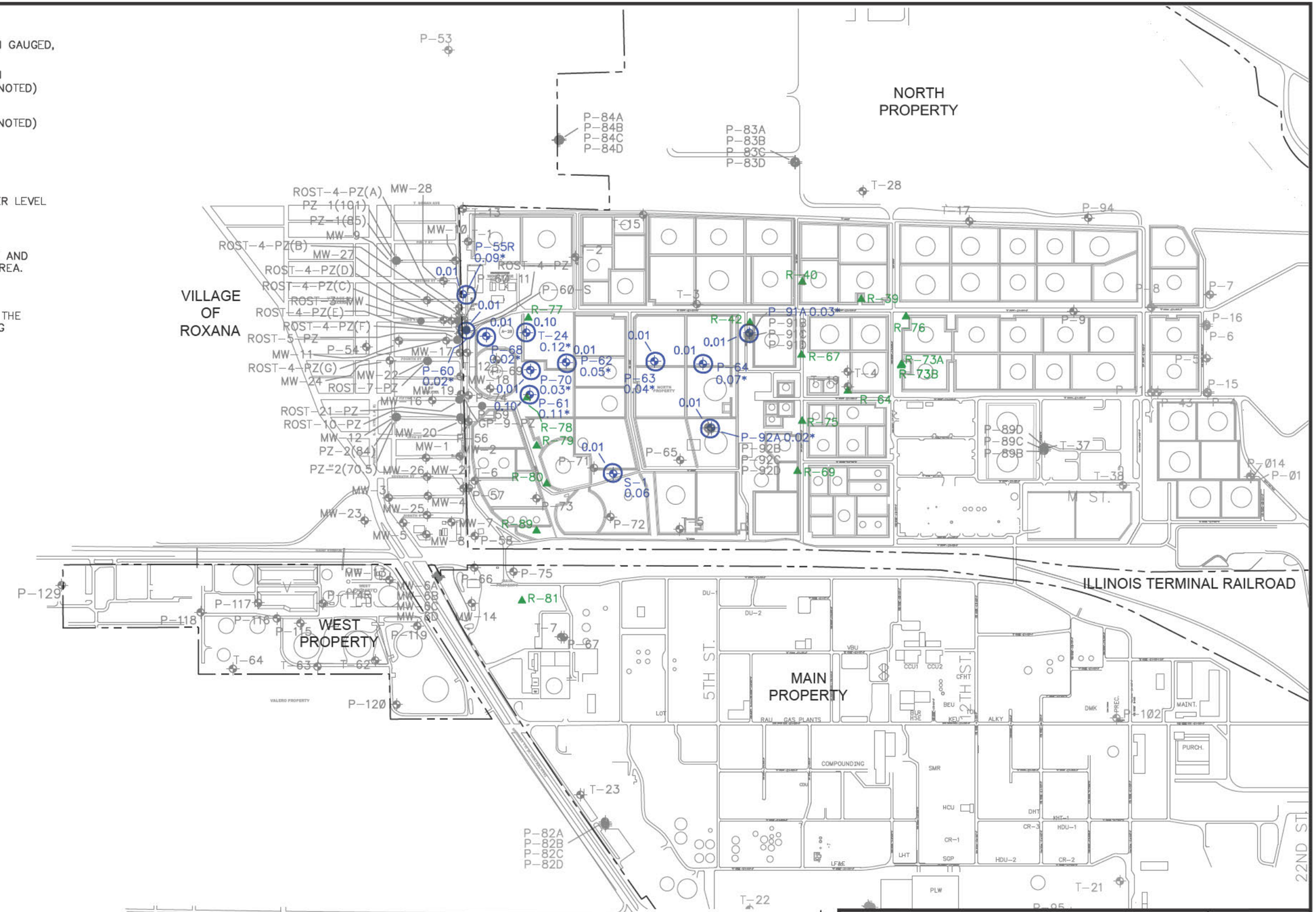
EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60527968
AECOM		
DRN. BY:djd October 2017 DSGN. BY:lr CHKD. BY:bbb	3Q17 Thickness of LNAPL – West Fenceline	FIG. NO. 4a

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 THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON JULY 5-6, 2017.



EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60527968
AECOM		
DRN. BY: djd October 2017 DSGN. BY: lr CHKD. BY: bbb	3Q17 Thickness of LNAPL	FIG. NO. 4b

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527988 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT FIGURES\FIGURE 4B THICKNESS OF LNAPL (REFINERY).DWG Last edited: SEP. 08, 17 @ 2:08 p.m. by: david.dejulio

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 5 2017 GROUNDWATER ANALYTICAL RESULTS SUMMARY.DWG Last edited: SEP. 18, 17 @ 3:54 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
Pentachlorophenol	0.001
Phenol	0.1
1,1,2,2-Tetrachloroethane	0.00043

J = THE RESULT IS ESTIMATED.

H = ANALYZED OR EXTRACTED OUT OF HOLDING TIME CRITERIA.

3. MULTIPLE RESULTS (e.g., 1000/1100) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
4. 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 3Q17 DUE TO THE PRESENCE OF LNAPL.

MW-9
MW-10
MW-28
SECOND ST
P-55R
NORTH PROPERTY
MW-27
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
P-60-13
A-28
T-24
MW-11
ROST-4-PZ(G)
HIGHWAY 111 (S. CENTRAL AVE)
P-54
T-12
MW-17
MW-24
FOURTH ST
MW-22
P-69
WOOD RIVER REFINERY
P-70
A-27
MW-18
P-74
MW-19
P-59
P-61
FIFTH ST
MW-16
MW-12
VILLAGE OF ROXANA
MW-20
P-56
CHAFFER 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
EIGHTH ST
MW-25
MW-5
MW-7
MW-23
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

Sample Location	ROST-4-PZ(C)
Sampled 7/12/17	Result (mg/L)
Benzene	0.017

Sample Location	T-12
Sampled 7/13/17	Result (mg/L)
Benzene	1.2

Sample Location	MW-22
Sampled 7/12/17	Result (mg/L)
Benzene	0.0079 / 0.0068

Sample Location	P-74
Sampled 7/12/17	Result (mg/L)
Benzene	0.022

Sample Location	P-59
Sampled 7/13/17	Result (mg/L)
Benzene	7.7
Ethylbenzene	1.9
Naphthalene	0.18
Toluene	2.1
1,3,5-Trimethylbenzene	0.15
2-Methylnaphthalene	0.034

Sample Location	MW-2
Sampled 7/12/17	Result (mg/L)
Benzene	0.0092

Sample Location	P-93A	P-93B	P-93D
Sampled 7/11 - 7/13/17	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	0.083	180 / 180	0.012
Phenol		0.16 / 0.22	

Sample Location	P-57
Sampled 7/13/17	Result (mg/L)
Benzene	43
2-Methylnaphthalene	0.03
Phenol	0.63

Sample Location	MW-4
Sampled 7/10/17	Result (mg/L)
bis(2-Ethylhexyl)phthalate	0.039 J

Sample Location	MW-25
Sampled 7/10/17	Result (mg/L)
Benzene	0.056

Sample Location	MW-7
Sampled 7/11/17	Result (mg/L)
Benzene	810 / 870
Phenol	0.27 / 0.24

Sample Location	P-58
Sampled 7/13/17	Result (mg/L)
Benzene	130
2-Methylnaphthalene	0.038 H J
Phenol	0.46

Sample Location	MW-8
Sampled 7/10/17	Result (mg/L)
Benzene	870
Pentachlorophenol	0.0018 J
Phenol	0.14

Sample Location	P-66
Sampled 7/12/17	Result (mg/L)
Benzene	0.0052
1,1,2,2-Tetrachloroethane	0.0018
2-Methylnaphthalene	0.03

Ø 200
SCALE FEET

N

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60527968

AECOM

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

3Q17 Groundwater Monitoring Well Analytical Exceedances

FIG. NO. 5

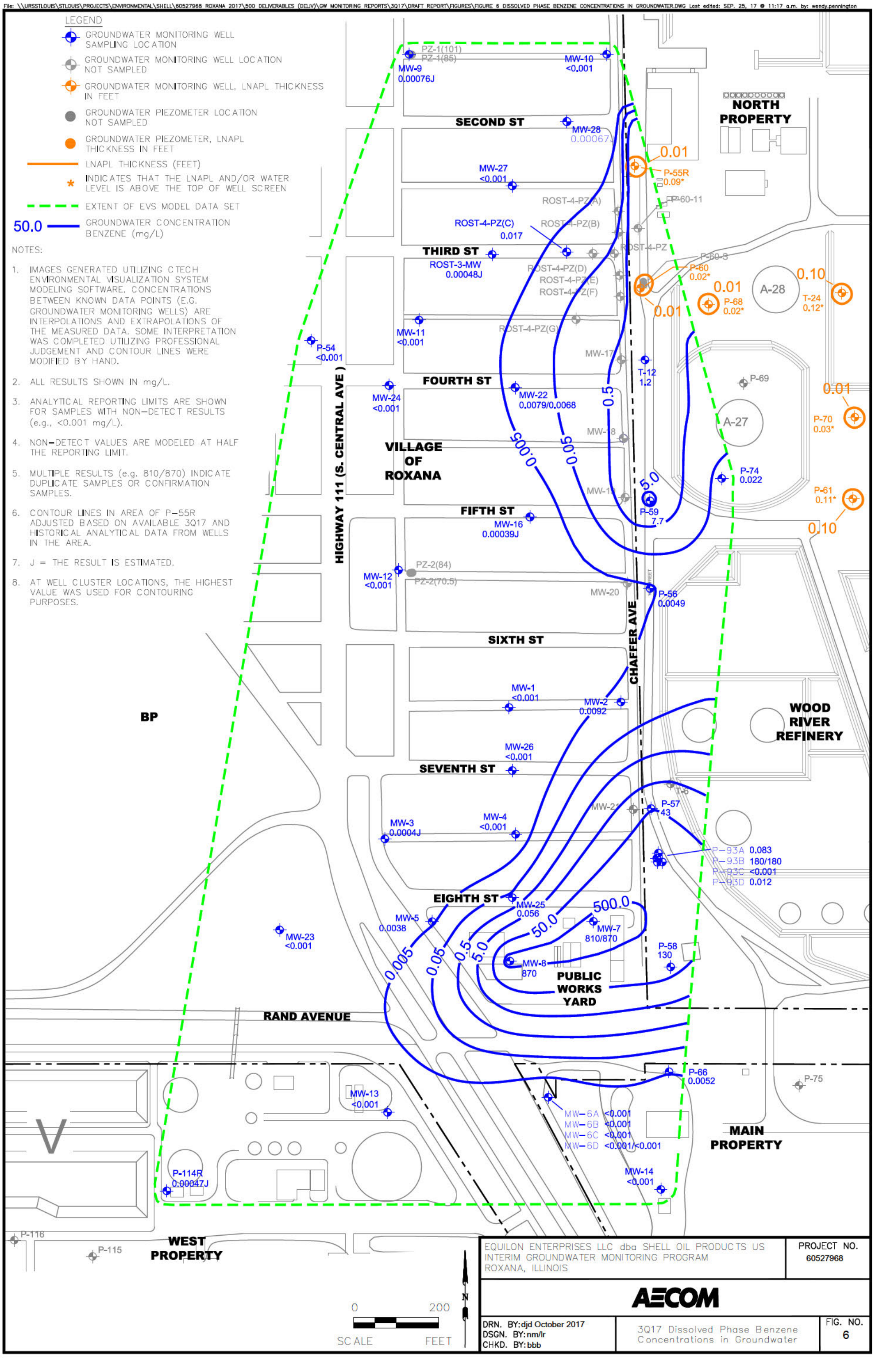
File: \\URSSTLOUIS\STLOUIS\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 6 DISSOLVED PHASE BENZENE CONCENTRATIONS IN GROUNDWATER.DWG Last edited: SEP. 25, 17 @ 11:17 a.m. by: wendy.pennington

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., <0.001 mg/L).
4. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
5. MULTIPLE RESULTS (e.g. 810/870) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
6. CONTOUR LINES IN AREA OF P-55R ADJUSTED BASED ON AVAILABLE 3Q17 AND HISTORICAL ANALYTICAL DATA FROM WELLS IN THE AREA.
7. J = THE RESULT IS ESTIMATED.
8. AT WELL CLUSTER LOCATIONS, THE HIGHEST VALUE WAS USED FOR CONTOURING PURPOSES.



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ROXANA, ILLINOIS

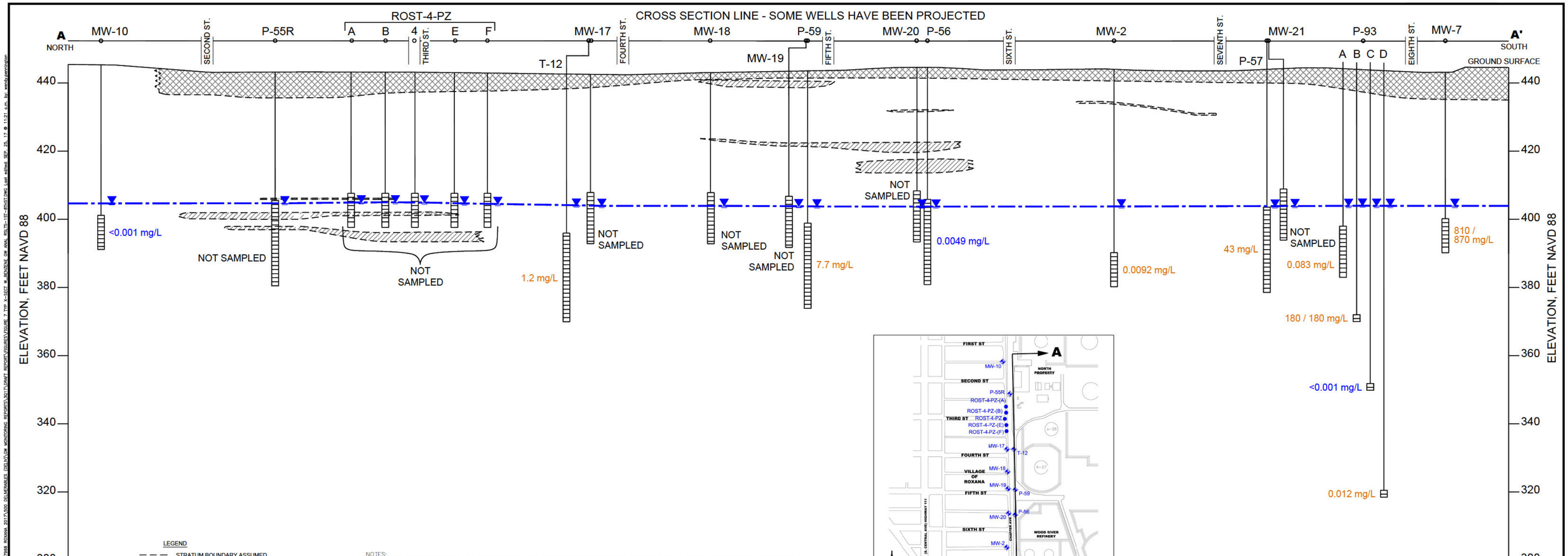
PROJECT NO. 60527968

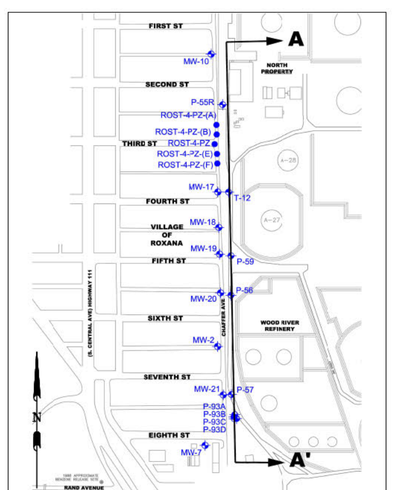
AECOM

DRN. BY: djd October 2017
DSGN. BY: nm/lr
CHKD. BY: bbb

3Q17 Dissolved Phase Benzene Concentrations in Groundwater

FIG. NO. 6





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)
- WELL SCREEN
- WATER LEVEL
- POTENTIOMETRIC SURFACE - ESTIMATED

NOTES:

1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 2Q17 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 JULY 5-6, 2017
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 SHALLOWER/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS
5. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-12

0 20
VERTICAL SCALE FEET

0 100
HORIZONTAL SCALE FEET

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INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60527968

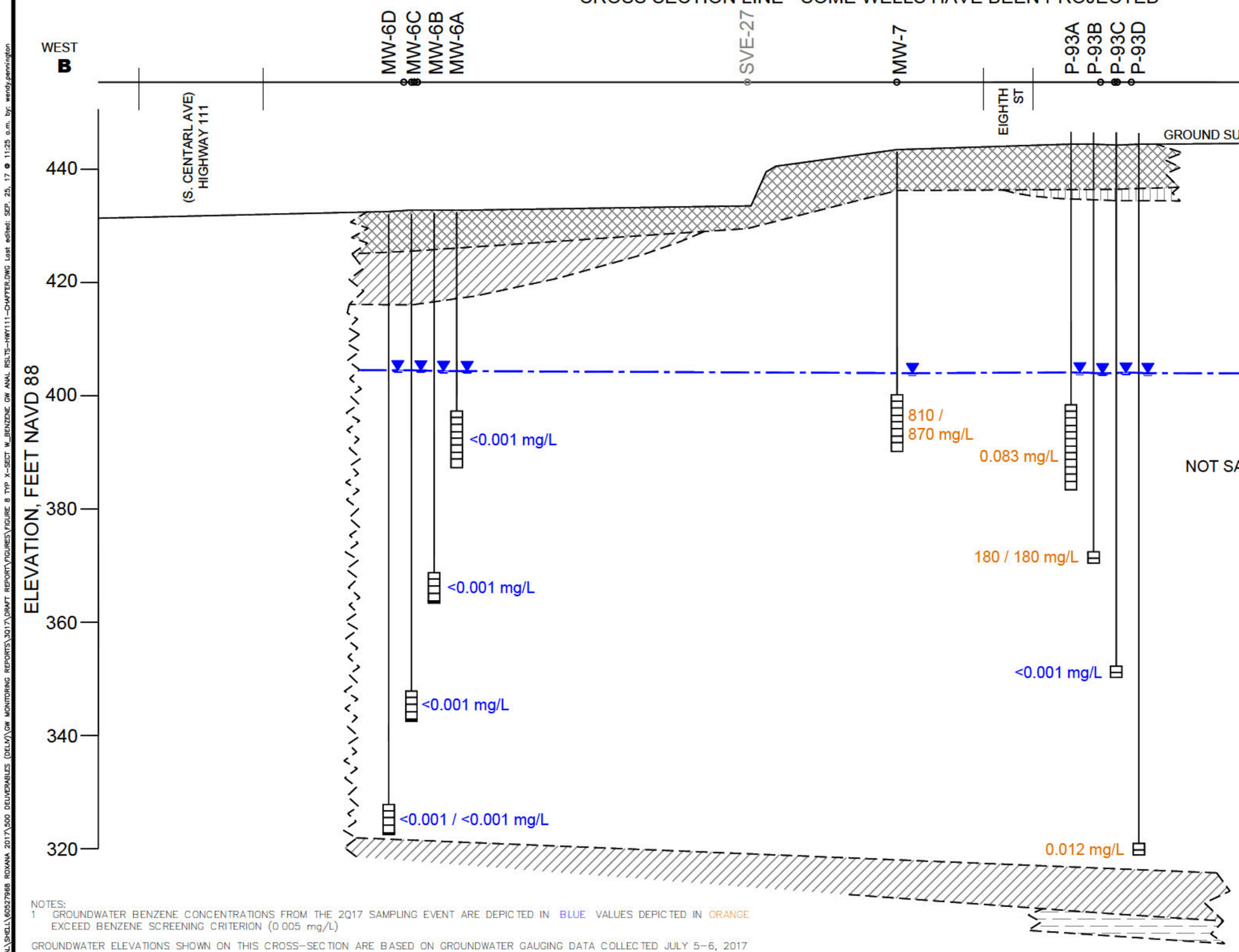
AECOM

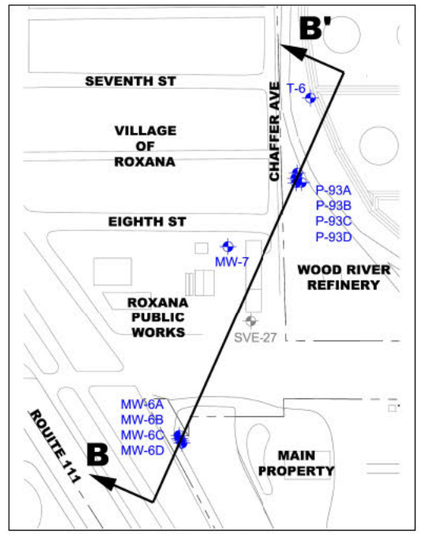
DRN. BY: djd October 2017
DSGN. BY: lr
CHKD. BY: bbb

Cross-Section of Benzene
3Q17 Groundwater Analytical Results-
Chaffer Avenue

FIG. NO. 7

CROSS SECTION LINE - SOME WELLS HAVE BEEN PROJECTED





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

0 20
VERTICAL SCALE FEET

0 100
HORIZONTAL SCALE FEET

NOTES:
1 GROUNDWATER BENZENE CONCENTRATIONS FROM THE 2Q17 SAMPLING EVENT ARE DEPICTED IN BLUE VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0 005 mg/L)

GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED JULY 5-6, 2017

2 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

3 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 SHALLOWER/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS

4 LITHOLOGICAL INFORMATION FROM SVE-27 WAS OBTAINED FROM BORING LOG TO SUPPLEMENT SITE GEOLOGY ONLY

5 HISTORIC BORING LOG IS NOT AVAILABLE FOR T-6

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AECOM	
DRN. BY: djd October 2017 DSGN. BY: lr CHKD. BY: wmp	Cross-Section of Benzene 3Q17 Groundwater Analytical Results- Roxana Public Works Yard
	FIG. NO. 8

File: \\URSSTLOUIS\STLOUIS\PROJECTS\ENVIRONMENTAL\SHELL\60527968 ROXANA 2017\500 DELIVERABLES (DELIV)\GW MONITORING REPORTS\3Q17\DRAFT REPORT\FIGURES\FIGURE 8 TYP X-SECT W_BENZENE GW ANAL RSLTS-HWY111-CHAFFER.DWG Last edited: SEP. 25, 17 @ 11:25 a.m. by: wendy.pennington

Appendix A
Groundwater Sampling Data Sheets

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, S. Clark

DATE: 07/11/17 | WEATHER: Sunny, 90 ish

MONITORING WELL ID: MW-1 | SAMPLE ID: MW1-ROX-071117

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 59.13 ft
Depth to Water (btoc): 37.24 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 48.80 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 21.89 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: 1.4 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)
1	0	1357	37.24	clear	slight	6.83	1.417	-33	0.82	7.512	22.23
2	600	~~1400~~	37.24	clear	slight	6.78	1.453	-25	0.34	10.34	21.61
3	1200	1402	37.24	clear	slight	6.76	1.467	-19	0.18	11.32	21.19
4	1800	1404	37.24	clear	slight	6.76	1.472	-15	0.11	14.42	20.98

Start Time: 1357 | Elapsed Time (min): 7 | Water Quality Meter ID & SN: TROLL 9500 -- R28172
Stop Time: 1404 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: ~~07/11/17~~ 07/11/17 | Sample Time: 1410 | 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:

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 WEATHER: Sunny, 90°

MONITORING WELL ID: MW-2 SAMPLE ID: MW2-ROX-071717

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 60.20 ft
Depth to Water (btoc): 38.66 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): 21.54 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) = 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: >15000 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)
1	0	1221	38.66	clear	strong	7.09	1.720	-158	0.16	20.31	23.10
2	600	1223		missed reading							
3	1200	1225	38.66	clear	strong	7.11	1.720	-185	-0.02	21.26	21.53
4	1800	1227	38.66	clear	strong	7.11	1.722	-198	-0.05	26.08	21.38
5	2400	1229	38.66	clear	strong	7.10	1.722	-211	-0.06	29.59	21.39
6	3000	1231	38.66	clear	strong	7.09	1.724	-221	-0.06	29.73	21.47
7	3600	1233	38.66	clear	strong	7.08	1.716	-234	-0.07	32.54	21.64
8	4200	1235	38.66	clear	strong	7.07	1.709	-247	-0.08	29.61	21.66
9	4800	1237	38.66	clear	strong	7.06	1.721	-257	-0.07	15.21	21.65
10	5400	1239	38.66	clear	strong	7.04	1.724	-268	-0.08	25.89	21.61
	6000	1241	38.66	clear	strong	7.03	1.717	-275	-0.08	33.97	21.53

Start Time: 1221 Elapsed Time (min): 20 Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1241 Average Purge Rate (mL/min): 300 Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17 Sample Time: 1245 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: 6000 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 | WEATHER: Sunny, 86°

MONITORING WELL ID: MW-3 | SAMPLE ID: MW3-ROX-07217

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.00 ft
Depth to Water (btoc): 24.25 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): 20.75 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: 0.0 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)
1	0	0926	24.25	clear	none	6.92	1.278	-131	0.42	10.07	21.47
2	600	0928	24.25	clear	none	6.91	1.286	-137	0.17	6.911	21.38
3	1200	0930	24.25	clear	none	6.92	1.291	-141	0.08	4.755	21.34
4	1800	0932	24.25	clear	none	6.92	1.295	-143	0.03	5.493	21.31

Start Time: 0926 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 - 828172

Stop Time: 0932 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17 | Sample Time: 0935 | 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: JR

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J.Peters M.Karnick

DATE: 7/10/17 WEATHER: Sunny 90°F

MONITORING WELL ID: MW-4 SAMPLE ID: MW4-ROX-071017

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 55.39 ft
Depth to Water (btoc): 35.68 ft
Depth to LNAPL/DNAPL (btoc): ——— ft
Depth to Top of Screen (btoc): 45.06 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 19.71 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) = ——— 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: 10.6 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
0	0957	35.68	Clear	Strong	6.86	1.331	-129	-0.13	11.37	20.84
600	0959	35.68	↓	↓	6.86	1.300	-124	-0.11	8.779	20.46
1200	1001	35.68			6.87	1.289	-127	-0.06	8.463	20.48
1800	1003	35.68			6.88	1.281	-128	-0.06	8.487	20.41

MK

Start Time: 0957
Stop Time: 1003

Elapsed Time (min): 6 min
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 -- 84779
Date Calibrated: 7/10/17

SAMPLING DATA

Sample Date: 71017
Sample Time: 1010
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: ~~EB~~
VOA Vials, No Headspace: ☑ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 | WEATHER: Sunny, 89°

MONITORING WELL ID: MW-5 | SAMPLE ID: MW5-ROX-071217 | MW5-ROX-071217-EB

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 44.30 ft
Depth to Water (btoc): 23.98 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): 20.32 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: 0.4 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)
1	0	1035	23.98	clear	none	6.80	1.054	-112	0.51	8.413	21.77
2	600	1038	23.98	clear	none	6.78	1.074	-118	0.18	9.307	21.35
3	1200	1040	23.98	clear	none	6.78	1.075	-121	0.07	9.981	21.27
4	1800	1042	23.98	clear	none	6.78	1.076	-124	0.02	12.94	21.17

Start Time: 1035 | Elapsed Time (min): 7 | Water Quality Meter ID & SN: TROLL 9500 - I28172

Stop Time: 1042 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17 | Sample Time: 1045 | Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☒ Initials: JR

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 86°

MONITORING WELL ID: MW-6A | SAMPLE ID: MW6A-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.16 ft
Depth to Water (btoc): 26.16 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): 19.00 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) = 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: 0.1 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
1	0	1100	26.16	Clear	none	6.69	1.196	-112	0.51	93.77	23.19
2	600	1102	26.16	Clear	none	6.69	1.198	-117	0.22	95.11	22.51
3	1200	1104	26.16	clear	none	6.70	1.195	-119	0.11	93.65	22.15
4	1800	1106	26.16	clear	none	6.70	1.190	-121	0.07	84.81	21.92
5	2400	1108	26.16	clear	none	6.71	1.180	-123	0.04	63.08	21.85
6	3000	1110	26.16	clear	none	6.72	1.171	-124	0.02	51.36	21.80
7	3600	1112	26.16	clear	none	6.72	1.167	-126	0.01	45.38	21.82

Start Time: 1100 | Elapsed Time (min): 12 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1112 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 07/11/17 | 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: JR

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 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 86°

MONITORING WELL ID: MW-6B | SAMPLE ID: MW6B-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 69.38 ft
Depth to Water (btoc): 26.18 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): 43.20 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) = 66.55 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: 0.3 ppm
Wellbore PID/FID Reading: 3372 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (TABLE: over readings; +/- 0.2)	Specific Cond. (mS/cm) (+/- 5%)	ORP (mV) (+/-20 m)	DO (mg/L) (+/-0.2 mg/L or +/-10%)	Turbidity (NTUs) (Monitor Turb Readings (<50))	Temp (°C) (Monitor Temp)
1	0	1019	26.18	Clear	mod. petrol	7.13	.9250	-95	0.76	7.440	21.87
2	600	1021	26.18	Clear	mod. petrol	7.07	.9418	-107	0.35	6.164	21.35
3	1200	1023	26.18	Clear	mod. petrol	7.05	.9465	-113	0.19	7.130	21.07
4	1800	1025	26.18	Clear	mod. petrol	7.05	.9433	-117	0.13	5.911	20.93
5	2400	1027	26.18	Clear	mod. petrol	7.05	.9426	-120	0.09	5.089	20.84

Start Time: 1019 | Elapsed Time (min): ~~1920~~ 8 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1027 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 07/11/17 | Sample Time: 1030 | 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 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 85°

MONITORING WELL ID: MW-6C | SAMPLE ID: MW6C-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 90.28 ft
Depth to Water (btoc): 25.99 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): 64.29 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) = 88.45 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 + 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 = _____ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.4 ppm
Wellbore PID/FID Reading: 2.3 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
1	0	0933	25.99	clear	none	7.02	1.034	-107	1.36	20.61	21.81
2	600	0935	25.99	clear	none	6.99	1.065	-116	0.70	21.65	21.25
3	1200	0937	25.99	clear	none	6.99	1.075	-122	0.37	20.10	20.89
4	1800	0939	25.99	clear	none	6.99	1.076	-127	0.21	16.68	20.64
5	2400	0941	25.99	clear	none	7.00	1.076	-130	0.14	13.48	20.49
6	3000	0943	25.99	clear	None	7.00	1.076	-133	0.10	10.73	20.44

Start Time: 0933 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 0943 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 07/11/17 | 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: ☒ Initials: JR

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 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 85°

MONITORING WELL ID: MW-6D | SAMPLE ID: MW6D-ROX-071117/MW6D-ROX-071117-DUP

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 110.05 ft
Depth to Water (btoc): 25.83 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): 84.22 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 + ½ * (Screen Length) = 107.22 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~~

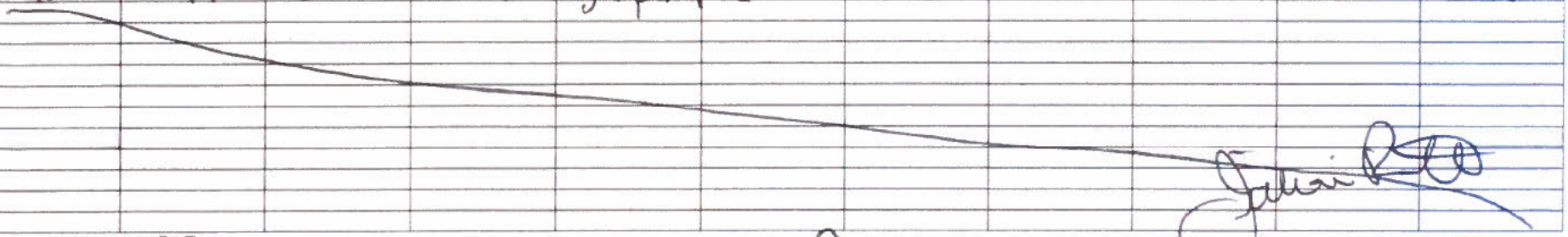
If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.2 ppm
Wellbore PID/FID Reading: 1495 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
1	0	0835	25.83	clear	slight petrol	6.51	1.223	-73	0.53	69.31	20.95
2	600	0837	25.83	clear	slight petrol	6.70	1.239	-114	0.26	98.81	20.47
3	1200	0840	25.83	clear	slight petrol	6.81	1.240	-129	0.16	92.80	20.29
4	1800	0842	25.83	clear	slight petrol	6.88	1.241	-135	0.12	72.50	20.21
5	2400	0844	25.83	clear	slight petrol	6.92	1.241	-139	0.09	49.06	20.14



Start Time: 0835 | Elapsed Time (min): 9 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 0844 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 07/11/17 | Sample Time: 0850 | Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☒ Initials: JR

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 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J.Peters M.Kamick

DATE: 07/11/17 WEATHER: Sunny 86°F

MONITORING WELL ID: MW-7 SAMPLE ID: MW7-Rox-071117 + Dup

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 52.92 ft
Depth to Water (btoc): 37.79 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): 15.13 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: 0.0 ppm
Wellbore PID/FID Reading: 360.9 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	0838	37.80	Clear	Strong	6.53	1.523	-94	0.49	5.98	21.56
600	0840	37.80	↓	↓	6.55	1.529	-97	0.30	7.549	21.38
1200	0842	37.80			6.57	1.531	-99	0.18	8.297	21.27
1800	0844	37.80			6.58	1.548	-100	0.08	8.381	21.17
2400	0846	37.80			6.59	1.555	-101	0.06	9.534	21.25

MK

Start Time: 0838 Elapsed Time (min): 8 min Water Quality Meter ID & SN: TROLL 9500 -- RZ4779

Stop Time: 0846 Average Purge Rate (mL/min): 300 Date Calibrated: 7/11/17

SAMPLING DATA

Sample Date: 07/11/17 Sample Time: 0850 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☑ Initials: JP

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 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Peters M. Karrick

DATE: 7/10/17 WEATHER: Sunny 100°F

MONITORING WELL ID: MW-8 SAMPLE ID: MW8-ROX-071017

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.60 ft
Depth to Water (btoc): 28.48 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): 15.12 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: 0.0 ppm
Wellbore PID/FID Reading: 323.3 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
	0	1407	28.51	Clear	Strong	6.81	1.385	-105	0.49	7.997	24.27
	600	1409	28.51			6.81	1.377	-105	0.15	8.540	23.58
	1200	1411	28.51			6.80	1.374	-105	0.05	9.155	23.08
	1800	1413	28.51			6.80	1.375	-105	0.01	9.078	22.93

MK

Start Time: 1407 Elapsed Time (min): 6 min Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1413 Average Purge Rate (mL/min): 300 Date Calibrated: 7/10/17

SAMPLING DATA

Sample Date: 7/10/17 Sample Time: 1420 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☑ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 WEATHER: Sunny, 86°

MONITORING WELL ID: MW-9 SAMPLE ID: MW9-ROX-071217

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 56.78 ft
Depth to Water (btoc): 38.86 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): 17.92 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)
1	0	0838	38.86	clear	none	6.63	1.519	-72	0.09	12.36	20.56
2	600	0840	38.86	clear	none	6.66	1.518	-73	0.07	16.41	19.88
3	1200	0842	38.86	clear	none	6.67	1.517	-75	0.05	20.39	19.48
4	1800	0844	38.86	clear	none	6.68	1.517	-76	0.02	20.76	19.35

Start Time: 0838
Stop Time: 0844

Elapsed Time (min): ~~5~~ 6
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - R28172
Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17
Sample Time: 0845
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: JR

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 100°

MONITORING WELL ID: MW-10 | SAMPLE ID: MW10-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 54.76 ft
Depth to Water (btoc): 38.86 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): 15.90 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: 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
1	0	1448	38.86	clear	none	6.93	1.963	-122	0.43	32.66	22.58
2	600	1500	38.86	clear	none	6.93	1.976	-128	0.19	28.55	21.79
3	1200	1452	38.86	clear	none	6.94	1.986	-131	0.10	27.04	21.60
4	1800	1454	38.86	clear	none	6.94	1.994	-133	0.07	25.53	21.39

Start Time: 1448
Stop Time: 1454

Elapsed Time (min): 6
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - R28172
Date Calibrated: 07/10/17

SAMPLING DATA

Sample Date: 07/11/17
Sample Time: 1500
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: JR

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/10/17 | WEATHER: Sunny, 103°

MONITORING WELL ID: MW-11 | SAMPLE ID: MW11-ROX-071017

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 51.99 ft
Depth to Water (btoc): 36.39 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): 15.60 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) = 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)
1	0	1348	36.39	clear	none	6.74	1.479	-105	0.56	19.61	21.05
2	600	1350	36.39	clear	none	6.74	1.502	-110	0.33	14.21	21.33
3	1200	1352	36.39	clear	none	6.74	1.508	-113	0.23	14.92	21.53
4	1800	1354	36.39	clear	none	6.74	1.516	-116	0.15	14.91	21.17

Start Time: 1348 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1354 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/10/17

SAMPLING DATA

Sample Date: 07/10/17 | Sample Time: 1400 | 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: JR

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 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: KW JR

DATE: 07/07/17 | WEATHER: Sunny, 86°

MONITORING WELL ID: MW-12 | SAMPLE ID: MW12-ROX-07072017

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 52.25 ft
Depth to Water (btoc): 36.84 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): 15.41 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) = 46.92 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)
1	0	1105	36.84	clear	none	6.97	1.005	103	0.66	14.05	22.43
2	1000	1107	36.84	clear	none	6.92	1.015	70	0.34	14.27	21.72
3	1200	1109	36.84	clear	none	6.91	1.019	43	0.20	14.46	21.44
4	1800	1111	36.84	clear	none	6.90	1.027	21	0.13	15.31	21.19
5	2400	1113	36.84	clear	none	6.90	1.034	3	0.11	13.75	21.31
6	3000	1115	36.84	clear	none	6.89	1.035	13	0.10	15.28	21.23
7	3600	1117	36.87	clear	none	6.89	1.038	-27	0.08	15.13	21.19
8	4200	1119	36.87	clear	none	6.89	1.042	-39	0.07	14.79	21.29
9	4800	1121	36.87	clear	none	6.89	1.050	-50	0.07	16.42	20.98
10	5400	1123	36.87	clear	none	6.88	1.048	-59	0.09	16.55	21.01

Start Time: 1105 | Elapsed Time (min): 18 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1123 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/07/17

SAMPLING DATA

Sample Date: 07-07-17 | 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? 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: 5400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Peters M. Kamick

DATE: 07/07/17 | WEATHER: Sunny 85° F

MONITORING WELL ID: MW-13 | SAMPLE ID: MW13-Rox-070717

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 35.82 ft
Depth to Water (btoc): 23.64 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 25.57 ft
Screen Length: 10 ft 5

Water Column Height (do not include LNAPL or DNAPL): 12.18 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~~

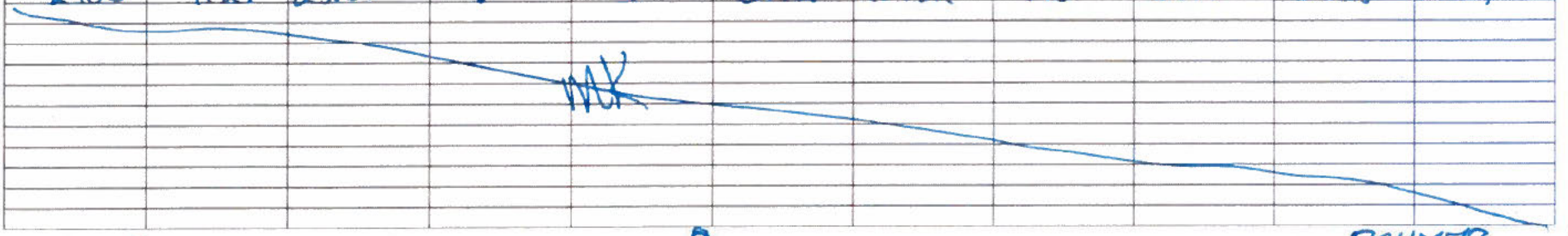
If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 183.3 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	1119	23.64	Clear	Strong	6.64	1.436	-140	0.90	9.627	22.17
600	1121	25.66			6.67	1.434	-143	0.62	7.206	21.88
1200	1123	23.67			6.69	1.431	-144	0.39	5.494	21.47
1800	1125	23.65			6.71	1.432	-145	0.26	3.954	21.25
2400	1127	23.65			6.72	1.432	-146	0.11	3.128	21.14



Start Time: 1119 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1127 | Average Purge Rate (mL/min): 300 | Date Calibrated: 7/7/17

SAMPLING DATA

Sample Date: 7/7/17 | Sample Time: 1135 | 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: JP

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 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Peters M. Kavrick

DATE: 7/7/17 | WEATHER: Sunny 93°F

MONITORING WELL ID: MW-14 | SAMPLE ID: MW14-ROX-070717 + MS/MSD

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 44.00 ft
Depth to Water (btoc): 28.28 ft
Depth to LNAPL/DNAPL (btoc): —— ft
Depth to Top of Screen (btoc): 33.42 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 15.72 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) = 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 + 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: 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: 964.4 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)
0	1351	28.31	Clear	Very Strong	6.77	1.660	-73	1.14	7.289	22.48
600	1353	28.31			6.76	1.661	-73	0.61	7.541	23.15
1200	1355	28.31			6.77	1.661	-73	0.33	7.737	22.77
1800	1357	28.31			6.77	1.651	-72	0.15	7.443	22.26
2400	1359	28.31			6.77	1.641	-73	0.05	9.693	21.68

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

MK

Start Time: 1351
Stop Time: 1359
Elapsed Time (min): 8
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 - R24779
Date Calibrated: 7/7/17

SAMPLING DATA

Sample Date: 07 07 17
Sample Time: 1405
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: MS MSD
VOA Vials, No Headspace ☑ Initials: JP

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 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J Roberts, J Clark

DATE: 07/10/17 WEATHER: 85°, Sunny

MONITORING WELL ID: MW-16 SAMPLE ID: MW16-ROX-071017 & MW16-ROX-071017-EB

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 47.31 ft
Depth to Water (btoc): 38.16 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): 9.15 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) = 42.74 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)
1	0	1037	38.16	brown	Slight petrol	6.81	1.500	-95	0.45	349.1	22.68
2	1200	1039	38.19	brown	slight petrol	6.81	1.505	-97	0.28	299.7	22.66
3	2400	1042	38.19	brown	slight petrol	6.81	1.501	-97	0.25	256.1	22.28
4	3600	1044	38.19	brown	slight petrol	6.80	1.496	-96	0.24	250.5	22.01
5	4800	1046	38.19	brown	slight petrol	6.80	1.493	-96	0.23	315.5	22.13
6	6000	1048	38.19	brown	slight petrol	6.79	1.491	-96	0.22	293.7	22.25
7	7200	1050	38.19	brn	slight petrol	6.79	1.486	-95	0.21	213.1	22.74
8	8400	1052	38.19	brown	slight petrol	6.78	1.488	-95	0.21	1625	22.95
9	9600	1054	38.19	brown	slight petrol	6.78	1.488	-94	0.22	151.1	22.61
10	10800	1056	38.19	brown	slight petrol	6.78	1.482	-92	0.22	116.3	22.34
11	12000	1058	38.19	brown	slight petrol	6.78	1.481	-90	0.24	94.8	22.32
12	13200	1100	38.19	brown	slight petrol	6.77	1.475	-89	0.27	86.56	22.58

Start Time: 1037 Elapsed Time (min): 0 Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1100 Average Purge Rate (mL/min): 300 Date Calibrated: 07/10/17

SAMPLING DATA

Sample Date: 07/10/17 Sample Time: 1105 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace [X] Initials: JR

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: 13200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, D. Clark

DATE: 07/12/17 | WEATHER: Sunny, 100°

MONITORING WELL ID: MW-22 | SAMPLE ID: MW22-ROX-071217 | MW22-ROX-071217-DUP

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48.13 ft
Depth to Water (btoc): 36.93 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 37.88 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.30 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) = 42.88 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)
1	0	1505	36.88	clear	strong	6.87	1.182	-38	0.29	9.669	24.65
2	600	1507	36.88	clear	strong	6.86	1.185	-54	0.12	6.371	23.90
3	1200	1509	36.88	clear	strong	6.85	1.184	-67	0.06	5.768	23.40
4	1800	1511	36.88	clear	strong	6.85	1.189	-77	0.03	5.709	23.09
5	2400	1514	36.88	clear	strong	6.84	1.192	-83	0.01	6.359	23.10

Start Time: 1505 | Elapsed Time (min): 9 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1514 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17 | Sample Time: 1520 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: DUP

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: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/10/17 | WEATHER: 82°

MONITORING WELL ID: MW-23 | SAMPLE ID: MW23-ROX-BP-071017

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 39.27 ft
Depth to Water (btoc): 25.13 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): 14.14 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: 0.0 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)
1	0	0906	25.16	cloudy	none	7.31	3.010	-177	-0.03	510.4	20.09
2	600	0909	25.16	brown	none	7.06	1.999	-159	-0.05	484.3	20.03
3	1200	0911	25.16	lt. brn	none	6.89	1.599	-143	-0.04	427.8	20.41
4	1800	0913	25.16	lt. brn	none	6.78	1.437	-133	-0.04	334.9	20.62
5	2400	0915	25.16	lt. brn	none	6.70	1.372	-129	-0.01	308.8	20.65
6	3000	0917	25.16	lt. brn	none	6.66	1.135	-130	-0.00	268.3	20.47
7	3600	0919	25.16	lt. brn	none	6.65	1.102	-132	-0.01	199.3	20.63
8	4200	0921	25.16	lt. brn	none	6.64	1.083	-134	-0.00	171.0	20.76
9	4800	0923	25.16	lt. brn	none	6.63	1.070	-140	-0.00	134.7	20.36
10	5400	0925	25.16	lt. brn	none	6.63	1.068	-142	-0.00	112.8	20.23
11	6000	0927	25.16	lt. brn	none	6.62	1.063	-147	-0.01	90.82	20.17
12	6600	0929	25.16	clear	none	6.63	1.064	-150	-0.01	78.43	20.11
13	7200	0931	25.16	clear	none	6.63	1.065	-152	-0.02	69.21	20.02
14	7800	0933	25.16	clear	none	6.63	1.062	-156	-0.02	63.77	20.08

Start Time: 0906 | Elapsed Time (min): 27 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 0933 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/10/17

SAMPLING DATA

Sample Date: 07/10/17 | Sample Time: 0935 | 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: JR

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: 7800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: KW, SR

DATE: 07/07/17 | WEATHER: Sunny, 88°

MONITORING WELL ID: MW-24 | SAMPLE ID: MW24-ROX-07072017

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 49.14 ft
Depth to Water (btoc): 37.68 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): 11.46 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) = 43.89 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 = _____ 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: 6.2 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
1	0	1409	37.68	clear	~~odor~~ none	9.02	1453	31	0.60	5.197	23.01
2	600	1411	37.68	clear	none	7.80	1.486	66	0.28	3.214	22.39
3	1200	1413	37.68	clear	none	7.17	1.471	74	0.16	2.126	21.70
4	1800	1415	37.68	clear	none	6.99	1.470	60	0.12	47.08	21.67
5	2400	1417	37.68	clear	none	6.92	1.473	43	0.10	52.34	21.73
6	3000	1419	37.68	clear	none	6.89	1.479	25	0.09	0.8532	21.65
7	3600	1421	37.69	clear	none	6.87	1.481	6	0.08	2.914	21.56
8	4200	1424	37.69	clear	none	6.86	1.480	-14	0.08	2.881	21.61
9	4800	1426	37.69	clear	none	6.85	1.494	-33	0.07	3.277	21.48
10	5400	1428	37.69	clear	none	6.84	1.485	-51	0.06	14.41	21.53
11	6000	1430	37.69	clear	none	6.84	1.483	-69	0.06	5.376	21.53
12	6600	1432	37.69	clear	none	6.84	1.484	-85	0.06	6.168	21.31
13	7200	1434	37.69	clear	none	6.83	1.485	-98	0.05	6.679	21.51
14	7800	1436	37.69	clear	none	6.83	1.500	-111	0.05	18.95	21.25
15	8400	1438	37.69	clear	none	6.83	1.491	-121	0.05	88.10*	21.41

Start Time: 1409 | Elapsed Time (min): 29 | Water Quality Meter ID & SN: TROLL 9500 - E28172

Stop Time: 1438 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/07/17

SAMPLING DATA

Sample Date: 07-07-17 | Sample Time: 1440 | 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: [signature]

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: 8400 mL

*Samples were not effervescent

*lots of bubbles in troll

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Peters M. Karnick

DATE: 071017 WEATHER: Sunny 95°F

MONITORING WELL ID: MW-25 SAMPLE ID: MW25-ROX-071017

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.84 ft
Depth to Water (btoc): 32.75 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): 13.09 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

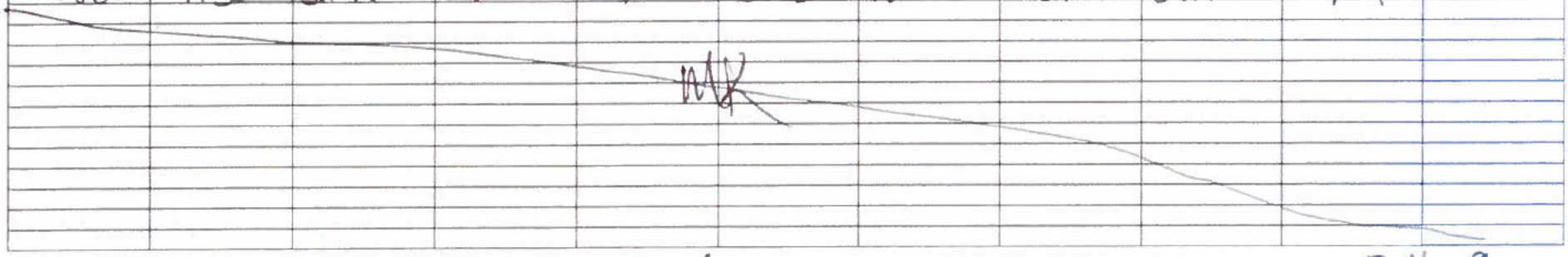
Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.2 ppm
Wellbore PID/FID Reading: 57.2 ppm

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)
600	1144	32.78	Cloudy	Strong	6.96	1.253	-127	8.42	7.327	22.07
1200	1146	32.78	↓	↓	6.93	1.253	-130	8.26	8.130	22.43
1800	1148	32.78			6.93	1.249	-132	8.18	8.376	22.82
	1150	32.78			6.95	1.248	-134	8.13	7.702	23.17



Start Time: 1144 Elapsed Time (min): 6 min Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1150 Average Purge Rate (mL/min): 300 Date Calibrated: 071017

SAMPLING DATA

Sample Date: 7/10/17 Sample Time: 1155 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: EB 1105

VOA Vials, No Headspace ☑ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: KW JR

DATE: 07/07/17 | WEATHER: Sunny, 78°

MONITORING WELL ID: MW-26 | SAMPLE ID: MW26-ROX-07072017 MW26-ROX-07072017-MS MW26-ROX-07072017-MSD

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48.40 ft
Depth to Water (btoc): 35.61 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): 12.79 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) = 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: 8.0 ppm
Wellbore PID/FID Reading: 8.0 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)
1	0	0929	35.61	clear	none	6.71	1565	97	0.41	15.70	20.29
2	600	0931	35.61	clear	none	6.72	1566	63	0.27	11.48	20.50
3	1200	0933	35.61	clear	none	6.73	1579	37	0.19	7.789	20.53
4	1800	0935	35.61	clear	none	6.73	1577	15	0.15	6.762	20.60
5	2400	0937	35.61	clear	none	6.74	1583	-2	0.13	5.221	20.62
6	3000	0939	35.61	clear	none	6.75	1593	-15	0.11	3.98	20.65
7	3600	0941	35.61	clear	none	6.75	1600	-27	0.10	3.654	20.65
8	4200	0943	35.61	clear	none	6.76	1599	-37	0.09	3.264	20.69
9	4800	0945	35.61	clear	none	6.76	1594	-41	0.09	8.425	20.73

Start Time: 0929 | Elapsed Time (min): 16 | Water Quality Meter ID & SN: TROLL 9500 - R27299

Stop Time: 0945 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07-07-17

SAMPLING DATA

Sample Date: 07-07-17 | Sample Time: 0950 | Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace: ☑ | Initials: JF

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 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/10/17 WEATHER: Sunny, 103

MONITORING WELL ID: MW-27 SAMPLE ID: MW27-ROX-071017

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 50.04 ft
Depth to Water (btoc): 37.23 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): 12.81 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	1451	37.29	lt brn	none	6.98	0.910	33	2.44	292	23.18
2	1000	1453	37.29	lt brn	none	6.96	0.9055	25	2.37	213.2	22.89
3	1200	1455	37.29	lt brn	none	6.95	0.9079	21	2.27	166.6	22.50
4	1800	1457	37.29	lt brn	none	6.95	0.9055	17	2.21	111.4	22.18
	2400	1459	37.29	lt brn	none	6.94	0.9043	15	2.10	96.99	21.94
6	3000	1501	37.29	lt brn	none	6.94	0.9082	14	2.01	76.16	21.84
7	3600	1503	37.29	lt brn	none	6.93	0.9079	13	1.95	64.70	21.86
8	4200	1505	37.29	lt brn	none	6.93	0.9115	12	1.88	45.15	21.63

Start Time: 1451 Elapsed Time (min): 1 Water Quality Meter ID & SN TROLL 9500 -- R28172

Stop Time: 1505 Average Purge Rate (mL/min Date Calibrated: 7/10/17

SAMPLING DATA

Sample Date: 07/10/17 Sample Time: 1 Lab Analysis VOC SVOC

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

VOA Vials, No Headspace (X) Initials: JR

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 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 | WEATHER: Sunny, 100°

MONITORING WELL ID: MW-28 | SAMPLE ID: MW28-ROX-071217

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 43.86 ft
Depth to Water (btoc): 36.48 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): 7.38 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) = 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) = 40.17 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: ¼ * (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)
1	0	1323	36.48	clear	strong	6.73	1.757	-57	0.43	59.07	23.35
2	600	1325	36.48	clear	strong	6.69	1.764	-64	0.15	50.19	21.80
3	1200	1328	36.48	clear	strong	6.67	1.774	-70	0.08	46.44	21.76
4	1800	1330	36.48	clear	strong	6.665	1.783	-75	0.05	41.91	21.61

Start Time: 1323 | Elapsed Time (min): 7 | Water Quality Meter ID & SN: TROLL 9500 - R28172

Stop Time: 1330 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17 | 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:

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J Roberts, J Clark

DATE: 07/10/17 | WEATHER: Sunny, 88°

MONITORING WELL ID: P-54 | SAMPLE ID: P54-ROX-07017

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 63.00 ft
Depth to Water (btoc): 36.35 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): 26.65 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) = 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

	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
1	0	1150	36.35	clear	none	6.74	1.299	74	1.68	10.90	23.56
2	600	1152	36.35	clear	none	6.72	1.322	61	1.10	11.39	22.65
3	1200	1154	36.39	clear	none	6.72	1.339	50	0.86	22.12	22.17
4	1800	1156	36.39	clear	none	6.72	1.348	41	0.76	25.18	21.85
	2400	1158	36.39	clear	none	6.71	1.359	35	0.68	21.24	21.77

Start Time: 1150 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 - R28872
Stop Time: 1158 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/10/17

SAMPLING DATA

Sample Date: 07/10/17 | Sample Time: 1200 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: 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: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/13/17 WEATHER: Sunny, >80s

MONITORING WELL ID: P-55R SAMPLE ID:

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 50.68 ft
Depth to Water (btoc): 38.30 ft
Depth to LNAPL/DNAPL (btoc): 38.11 ft
Depth to Top of Screen (btoc): 40.43 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) = 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: 2365 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

LNAPL
DID NOT SAMPLE

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: N/A 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)

Total Purge Volume: 9 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Peters M. Karick

DATE: 07 12 17 WEATHER: Sunny, 105°F

MONITORING WELL ID: P-56 SAMPLE ID: P56-ROX-071217 + EB

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 65.82 ft
Depth to Water (btoc): 41.11 ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): 40.82 ft
Screen Length: 25 ft
65ft

Water Column Height (do not include LNAPL or DNAPL): 24.17 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 = 46.11 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: 8.9 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	1421	41.12	Cloudy	Strong	7.14	1.276	-160	-8.08	29.21	28.91
600	1423	41.14	↓	↓	7.13	1.253	-162	-8.11	28.28	29.16
1200	1425	41.16			7.13	1.238	-165	-8.11	30.91	29.71
1800	1427	41.17			7.12	1.228	-165	-8.13	35.04	29.55

MK

Start Time: 1421
Stop Time: 1427
Elapsed Time (min): 6
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 - R24779
Date Calibrated: 7 12 17

SAMPLING DATA

Sample Date: 071217
Sample Time: 1435
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QC Samples: 1/15 EB
VOA Vials, No Headspace ☐ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark, J. Peters

DATE: 07/13/17 | WEATHER: Sunny, 85°

MONITORING WELL ID: P-57 | SAMPLE ID: P57-ROX-071317

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 54.19 ft
Depth to Water (btoc): [illegible] ft (4195)
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 44.19 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 12.24 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) = [illegible] ft btoc 49.19

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: [illegible] ppm (0.8)
Wellbore PID/FID Reading: [illegible] 345.2 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)
1	0	1110	41.95	Clear	Strong	6.73	1.129	-116	0.71	8.875	25.03
2	600	1112	41.95	clear	Strong	6.77	1.112	-126	0.29	6.184	25.07
3	1200	1114	41.95	clear	Strong	6.79	1.097	-131	0.12	7.245	24.93
4	1800	1116	41.95	clear	Strong	6.80	1.086	-134	0.04	6.075	24.97
5	2400	1119	41.95	clear	Strong	6.81	1.077	-137	0.00	6.333	24.96

Start Time: 1110 | Elapsed Time (min): 9 | Water Quality Meter ID & SN: TROLL 9500 - [illegible] R247779
Stop Time: 1119 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/13/17

SAMPLING DATA

Sample Date: 07/13/17 | 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: ☑ Initials: [illegible]

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: mL

* started on wrong sheet... edits JR 07/13/17

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/13/17 WEATHER: Sunny, 89°

MONITORING WELL ID: P-58 SAMPLE ID: P58-ROX-071317

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 65.21 ft
Depth to Water (btoc): 39.88 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 40.21 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 25.33 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 = 52.71 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: 175.0 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
1	0	1205	39.88	clear	strong	6.78	2.275	-108	0.93	13.24	25.40
2	600	1207	39.88	clear	strong	6.79	2.259	-115	0.26	10.19	25.05
3	1200	1209	39.88	clear	strong	6.79	2.258	-118	0.07	10.74	24.84
4	1800	1211	39.88	clear	strong	6.79	2.220	-121	0.00	10.41	24.81
5	2400	1213	39.88	clear	strong	6.79	2.202	-123	-0.03	10.11	24.79

Start Time: 1205
Stop Time: 1213
Elapsed Time (min): 8
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 – R24779
Date Calibrated: 07/13/17

SAMPLING DATA

Sample Date: 07/13/17
Sample Time: 1215
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: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, N. Clark, S. Peters

DATE: 07/13/17 WEATHER: Sunny, 85°

MONITORING WELL ID: P-59 SAMPLE ID: P59-ROX-071317

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 72.91 ft
Depth to Water (btoc): 42.16 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 47.91 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 30.75 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) = 52.91 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: 75.0 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)
1	0	0948	42.16	Clear	strong	6.59	1.593	-120	0.11	26.79	29.53
2	600	0951	42.16	clear	strong	6.58	1.593	-123	0.04	34.34	29.19
3	1200	0953	42.16	clear	strong	6.58	1.591	-125	-0.00	51.09	29.04
4	1800	0955	42.16	Clear	strong	6.59	1.588	-127	-0.02	10.14	28.96

Start Time: 0948 Elapsed Time (min): 7 Water Quality Meter ID & SN: TROLL 9500 – R2[illegible]72

Stop Time: 0955 Average Purge Rate (mL/min): 300 Date Calibrated: 07/13/17

SAMPLING DATA

Sample Date: 07/13/17 Sample Time: 1000 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☒ Initials: gf

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J.Peters M.Karnes

DATE: 07/12/17 | WEATHER: Sunny 90°F

MONITORING WELL ID: P-66 | SAMPLE ID: P66-ROX-071217

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 59.72 ft
Depth to Water (btoc): 31.38 ft
Depth to LNAPL/DNAPL (btoc): ——— ft
Depth to Top of Screen (btoc): 34.72 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 28.34 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) = ——— 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 = 29.72 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ——— 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: 367.7 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	0949	31.40	Clear	Very Strong	6.53	1.318	-104	0.22	17.04	24.68
600	0951	31.40	↓	↓	6.59	1.313	-107	0.19	19.91	25.22
1200	0953	31.44			6.55	1.282	-108	0.11	21.08	25.62
1800	0955	31.40			6.55	1.269	-109	0.07	24.34	25.67

WP

Start Time: 0949 | Elapsed Time (min): 6 min | Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 0955 | Average Purge Rate (mL/min): ~~300~~ 300 | Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07 12 17 | Sample Time: 1000 | Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☑ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/13/17 WEATHER: Sunny, high 80s

MONITORING WELL ID: P-68 SAMPLE ID:

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 70.26 ft
Depth to Water (btoc): 40.21 ft
Depth to LNAPL/DNAPL (btoc): 40.17ft
Depth to Top of Screen (btoc): 45.26 ft
Screen Length: 25 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) = 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: 274.7 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)
			LNAPL							
			DID NOT SAMPLE							

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: N/A 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)

Total Purge Volume: 0 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J.Peters M.Kamcke

DATE: 07 12 17 WEATHER: Sunny, 105°F

MONITORING WELL ID: P-74 SAMPLE ID: P74-Rox-071217

INITIAL DATA

Well Diameter): 4 in
Total Well Depth (btoc): 69.43 ft
Depth to Water (btoc): 38.08 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 44.43 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 31.35 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 = 49.43 ft btoc
If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = — 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

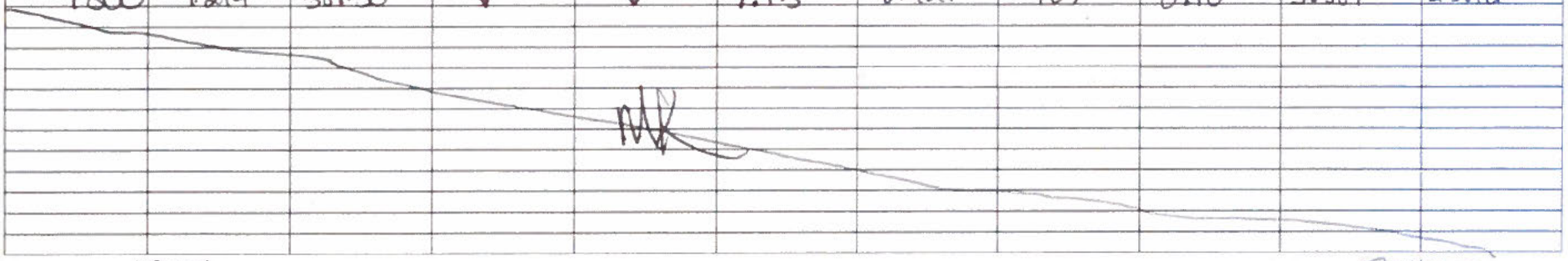
Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.6 ppm

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	1208	38.51	Clear	Moderate hydrocarbon like	7.33	.1405	-93	0.66	4.052	25.55
600	1210	38.51	↓	↓	7.23	.1413	-99	0.23	3.147	25.20
1200	1212	38.51			7.19	.1414	-104	0.16	4.360	24.89
1800	1214	38.50			7.15	.1421	-107	0.10	5.387	25.12



Start Time: 1208 Elapsed Time (min): Water Quality Meter ID & SN: TROLL 9500 - R24779
Stop Time: 1214 Average Purge Rate (mL/min): 300 Date Calibrated: 07 12 17

SAMPLING DATA

Sample Date: 07 12 17 Sample Time: 1220 Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: —
VOA Vials, No Headspace ☑ Initials: JP

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark, J. Peters

DATE: 7/13/17 | WEATHER: Sunny 86°

MONITORING WELL ID: P-93A | SAMPLE ID: P93A-ROX-071317

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 53.07 ft
Depth to Water (btoc): 40.11 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): 12.96 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) = 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: 0.2 ppm
Wellbore PID/FID Reading: 3.0 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
1	0	1137	40.28	Clear	Strong	7.09	1.057	-0	0.42	3.709	26.38
2	600	1139	40.28	Clear	Strong	7.05	1.055	-6	0.21	4.630	25.69
3	1200	1142	40.28	Clear	Strong	7.02	1.048	-10	0.13	6.546	25.27
4	1800	1144	40.28	Clear	Strong	7.02	1.049	-14	0.12	15.32	25.19

Start Time: 1137 | Elapsed Time (min): 7 | Water Quality Meter ID & SN: TROLL 9500 -- R28172
Stop Time: 1144 | Average Purge Rate (mL/min): 300 | Date Calibrated: 07/13/17

SAMPLING DATA

Sample Date: 7/13/17 | Sample Time: 1145 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: None
VOA Vials, No Headspace ☑ Initials: [signature]

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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J.Peters M.Karnick

DATE: 7/11/17 WEATHER: Sunny 95°F

MONITORING WELL ID: P-93B SAMPLE ID: P93B-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 76.60 ft
Depth to Water (btoc): 41.59 ft
Depth to LNAPL/DNAPL (btoc): ——— ft
Depth to Top of Screen (btoc): 74.60 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 35.01 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: 0.3 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	1416	41.60	Clear	Slight	6.79	1.289	-123	-0.05	0.8507	21.51
600	1418	41.60	↓	↓	6.78	1.308	-124	-0.03	0.2502	21.92
1200	1420	41.60			6.78	1.321	-125	-0.02	0.1032	22.17
1800	1422	41.60			6.77	1.323	-125	-0.03	0.0506	22.27

MK

Start Time: 1416
Stop Time: 1422

Elapsed Time (min): 6 min
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - R24779
Date Calibrated: 7/1/17

SAMPLING DATA

Sample Date: 7/11/17
Sample Time: 1430
Lab Analysis: VOC, SVOC
Sample Method: Bladder Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QCSamples: Dup
VOA Vials, No Headspace ☑ Initials: JP

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: 1802 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Peters M. Karrick

DATE: 07/12/17 | WEATHER: Sunny 98°F

MONITORING WELL ID: P-93C | SAMPLE ID: P93C-ROX-071217

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 97.47 ft
Depth to Water (btoc): 41.30 ft
Depth to LNAPL/DNAPL (btoc): ——— ft
Depth to Top of Screen (btoc): 92.47 ft
Screen Length: 5 ft x 5
100 ft

Water Column Height (do not include LNAPL or DNAPL): 56.17 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~~

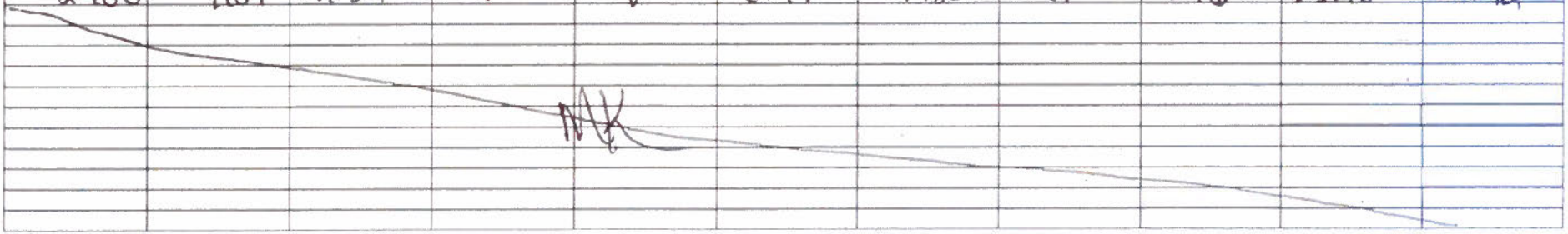
If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

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: 1.9 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	1056	41.31	Clear	Mild	7.05	956.8	-79	1.37	32.78	23.91
600	1058	41.32			7.00	1.606	-83	0.68	26.87	23.34
1200	1100	41.32			7.00	.9574	-85	0.55	25.25	23.00
1800	1102	41.32			6.98	.9544	-86	0.23	20.30	22.61
2400	1104	41.32			6.97	.9483	-87	0.16	15.98	22.42



Start Time: 1056 | Elapsed Time (min): 8min | Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1104 | Average Purge Rate (mL/min): 300 | Date Calibrated: 7/12/17

SAMPLING DATA

Sample Date: 07/12/17 | Sample Time: 1110 | Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☐ | Initials: JP

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 3Q17 GW **PROJECT NUMBER:** 60527968 - 1.03.003 **FIELD PERSONNEL:** J.Peters M.Kamets

DATE: 07/11/17 **WEATHER:** Sunny 99°F

MONITORING WELL ID: P-93D **SAMPLE ID:** P93D - Rox - 071117

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 128.00 ft
Depth to Water (btoc): 41.64 ft
Depth to LNAPL/DNAPL (btoc): ——— ft
Depth to Top of Screen (btoc): 125.75 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 86.36 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 = 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: 0.2 ppm

PURGE DATA

Pump Type: Dedicated Well Wizard

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	1325	41.69	Clear	Mild	7.28	1.235	-181	1.78	1.069	21.15
600	1327	41.70	↓	↓	7.21	1.260	-181	0.50	0.8995	19.96
1200	1328	41.70	↓	↓	7.17	1.269	-176	0.13	1.176	19.97
1800	1329	41.70	↓	↓	7.14	1.274	-171	0.01	1.388	20.00
2400	1331	41.70	↓	↓	7.12	1.278	-166	-0.03	1.485	19.92

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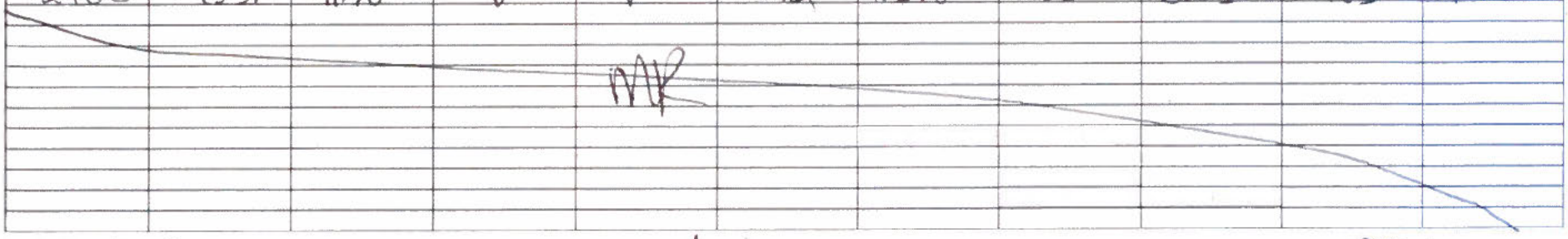


Start Time: 1325 Elapsed Time (min): 6 min Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1331 Average Purge Rate (mL/min): 400 Date Calibrated: 071117

SAMPLING DATA

Sample Date: 07/11/17 Sample Time: 1340 Lab Analysis: VOC, SVOC

Sample Method: Bladder Pump / Low Flow Sample Flow Rate (mL/min): 400 QA/QCSamples: NA

VOA Vials, No Headspace ☑ Initials: JP

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 3Q17 GW **PROJECT NUMBER:** 60527968 1.03.003 **FIELD PERSONNEL:** J. Peters M. Karrick

DATE: 7/11/17 **WEATHER:** Sunny 95°F

MONITORING WELL ID: P-114R **SAMPLE ID:** P114R-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 38.31 ft
Depth to Water (btoc): 22.45 ft
Depth to LNAPL/DNAPL (btoc): ____ ft
Depth to Top of Screen (btoc): 23.0 ft
Screen Length: 10 ft
55ft hose

Water Column Height (do not include LNAPL or DNAPL): 10.86 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) = 28.01 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: 8.9 ppm
Wellbore PID/FID Reading: 17.9 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	1051	22.49	Very Cloudy	Very strong hydrocarbon like	6.54	721.0	-94	0.14	676.1	22.86
600	1053	22.49			6.53	719.4	-96	0.06	514.5	23.03
1200	1055	22.49			6.53	719.0	-98	-0.03	532.6	23.49
1800	1057	22.49			6.53	711.2	-100	-0.03	517.2	24.06
2400	1059	22.50			6.53	704.9	-101	-0.02	443.1	24.09
3000	1101	22.50			6.51	697.1	-99	-0.04	522.6	23.61
3600	1103	22.50			6.50	697.2	-98	-0.06	547.1	23.29
4200	1105	22.50			6.50	695.1	-98	-0.07	413.5	23.36
4800	1107	22.50			6.50	691.6	-99	-0.06	315.3	23.48
5400	1109	22.50			6.50	683.6	-99	-0.07	203.1	23.47
6000	1111	22.50			6.50	679.1	-98	-0.07	164.5	23.46
6600	1113	22.50			6.49	676.2	-97	-0.07	116.5	23.26
7200	1115	22.50			6.49	663.9	-95	-0.08	87.23	23.14
7800	1117	22.50			6.48	660.3	-94	-0.07	71.87	23.13
8400	1119	22.50			6.48	655.0	-94	-0.07	63.14	23.25
9000	1121	22.50			6.47	649	-93	-0.08	52.24	22.91
9600	1123	22.50			6.47	652.4	-92	-0.09	105.60	22.58

Start Time: 1051 Elapsed Time (min): 36 Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1127 Average Purge Rate (mL/min): 300 Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 7/11/17 Sample Time: 1135 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☑ Initials: JP

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: 10,800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 1.03.003 FIELD PERSONNEL: J. Peters M. Kerrick

DATE: 7/11/17 WEATHER: Sunny 95°F

MONITORING WELL ID: P114R continued SAMPLE ID: P114R-Rox-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 33.31 ft
Depth to Water (btoc): 22.45 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 23.00ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 10.86 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) = 28.01 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: 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)
10200	1125	22.50	Cloudy	Very strong hydrocarbon-like	6.49	653.2	-93	-0.09	54.41	22.60
10800	1127	22.50	Cloudy		6.48	650.6	-94	-0.09	38.57	22.74

Start Time: 1051 Elapsed Time (min): 36 Water Quality Meter ID & SN: TROLL 9500 - R24779

Stop Time: 1127 Average Purge Rate (mL/min): 300 Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 7/11/17 Sample Time: 1135 Lab Analysis: VOC, SVOC

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

VOA Vials, No Headspace ☑ Initials: JP

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: 10 800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW | PROJECT NUMBER: 60527968 - 1.03.003 | FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/11/17 | WEATHER: Sunny, 89°

MONITORING WELL ID: ROST-3-MW | SAMPLE ID: ROST3MW-ROX-071117

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48.06 ft
Depth to Water (btoc): 36.61 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): 11.96 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) = 42.81 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: 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: 0.1 ppm
Wellbore PID/FID Reading: 2215 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)
	TABLE over 3 readings)					+/ 0 2	+/ 5%	+/-20 mV	+/-0 2 mg/L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
1	0	1305	36.61	clear	strong	6.92	1.572	-107	0.38	28.30	22.02
2	600	1307	36.61	clear	strong	6.93	1.571	-114	0.16	24.48	20.73
3	1200	1309	36.61	clear	strong	6.92	1.583	-118	0.09	22.64	20.24
4	1800	1311	36.61	clear	strong	6.91	1.598	-121	0.05	17.57	19.99
5	2400	1314	36.61	clear	strong	6.89	1.604	-124.3	0.04	16.13	19.81

Start Time: 1305
Stop Time: 1314

Elapsed Time (min): 9
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - R28172
Date Calibrated: 07/11/17

SAMPLING DATA

Sample Date: 07/11/17
Sample Time: 1320
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QCSamples: 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: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark

DATE: 07/12/17 WEATHER: Sunny, 100°

MONITORING WELL ID: ROST-4-PZ(C) SAMPLE ID: ROST4PZ(C) - ROX-071217

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.20 ft
Depth to Water (btoc): 37.20 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): 8.00 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) = 41.20 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

TABLE (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)
1	0	1417	37.20	Clear	Strong	7.21	1.466	-167	0.49	17.13	22.67
2	600	1419	37.20	Clear	Strong	7.22	1.467	-169	0.15	2201	21.42
3	1200	1421	37.20	Clear	Strong	7.23	1.465	-174	0.05	20.93	20.84
4	1800	1423	37.20	Clear	Strong	7.24	1.460	-178	0.01	23.29	20.56

Start Time: 1417
Stop Time: 1423

Elapsed Time (min): 6
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 - 228172
Date Calibrated: 07/12/17

SAMPLING DATA

Sample Date: 07/12/17
Sample Time: 1425
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QCSamples: 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: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 3Q17 GW PROJECT NUMBER: 60527968 - 1.03.003 FIELD PERSONNEL: J. Roberts, J. Clark, J. Peters

DATE: 7/13/17 WEATHER: Sunny, 85°

MONITORING WELL ID: T-12 SAMPLE ID: T12-ROX-071317

INITIAL DATA

Well Diameter: 6 in
Total Well Depth (btoc): 72.83 ft
Depth to Water (btoc): 40.10 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): 32.73 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 = 5.83 ft btoc

If Screen Length is greater than 10' AND Water Column Height is less than 10', Place Pump at: ½ * (Water Column Height) = ~0 ft btoc

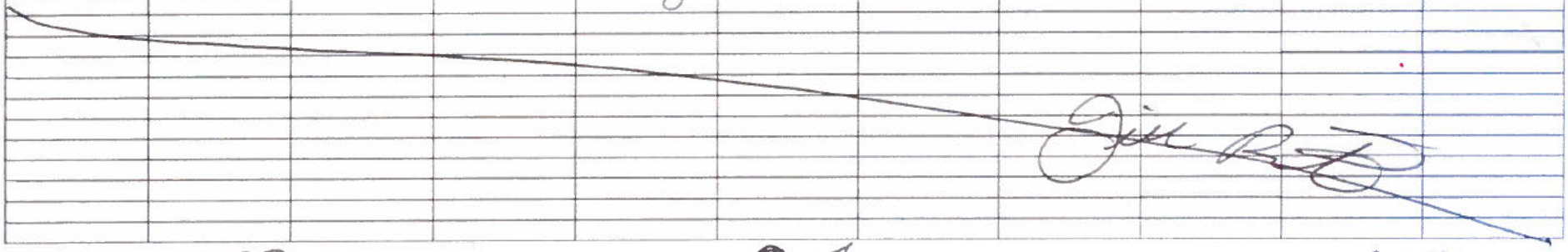
If Screen Length and/or Water Column Height is less than 4 ft, Place Pump at: Total Well Depth - 2 ft = ~ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 11.0 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
1	0	1033	40.19	clear	strong	6.83	1.239	-142	0.20	4.025	26.59
2	600	1035	40.15	clear	strong	6.84	1.240	-146	0.02	3.973	25.45
3	1200	1037	40.5	clear	strong	6.85	1.241	-149	-0.03	4.084	25.07
4	1800	1039	40.5	clear	strong	6.86	1.243	-151	-0.05	6.635	25.07



Start Time: 033 Elapsed Time (min): ED 7 Water Quality Meter ID & SN: TROLL 9500 .. R28172

Stop Time: 039 Average Purge Rate (mL/min): 300 Date Calibrated: 07-3-17

SAMPLING DATA

Sample Date: 7/13/17 Sample Time 1045 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): >00 QA/QC Samples none

VOA Vials, No Headspace ☑ Initials: JR

COMMENTS:

Total Purge Volume: 1800 mL

Appendix B

Data Review Forms and Laboratory Analytical Reports

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140267-1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/15/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
MW13-ROX-070717	MW14-ROX-070717
TB-ROX-070717-8260	TB-ROX-070717-8011
MW26-ROX-070717	MW12-ROX-070717
MW24-ROX-070717	TB-ROX-070717-8260-A
TB-ROX-070717-8011-B	

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. The SVOC LCS/LCSD recoveries for benzenethiol and n-nitrosodimethylamine and the LCS/LCSD RPD for benzenethiol were outside evaluation criteria. Several surrogate recoveries were outside criteria in several samples. Several MS/MSD recoveries were outside evaluation criteria in samples MW14-ROX-070717 and MW26-ROX-070717. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for 1,4-dioxane, fluoranthene, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification.

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.

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
MB 400-359871/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	9.29 µg/L
MB 400-360266/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	7.14 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
MW26-ROX-070717	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 400-359871/13-A/14-A	SVOCs	Benzenethiol	**1/2**	**56**	10-120/30
LCS 400-359871/2-A	SVOCs	N-Nitrosodimethylamine	**13**	NA	22-148

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Professional judgment was used to qualify, however not reject, data associated with benzenethiol in LCS/LCSD 400-359871/13-A/14-A; benzenethiol has been identified as a poor performing analyte under Method 8270.

Sample ID	Parameter	Analyte	Qualification
MW13-ROX-070717	SVOCs	Benzenethiol	**UJ**
MW13-ROX-070717	SVOCs	N-Nitrosodimethylamine	**UJ**
MW14-ROX-070717	SVOCs	Benzenethiol	**UJ**
MW14-ROX-070717	SVOCs	N-Nitrosodimethylamine	**UJ**
MW26-ROX-070717	SVOCs	Benzenethiol	**UJ**
MW26-ROX-070717	SVOCs	N-Nitrosodimethylamine	**UJ**
MW12-ROX-070717	SVOCs	Benzenethiol	**UJ**
MW12-ROX-070717	SVOCs	N-Nitrosodimethylamine	**UJ**
MW24-ROX-070717	SVOCs	Benzenethiol	**UJ**
MW24-ROX-070717	SVOCs	N-Nitrosodimethylamine	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW13-ROX-070717	PAHs	2-Fluorobiphenyl	**146**	15-122
MW26-ROX-070717	PAHs	Terphenyl-d_{14}	**144**	33-138
MW12-ROX-070717	PAHs	Terphenyl-d_{14}	**152**	33-138
MB 400-359871/1-A	PAHs	Terphenyl-d_{14}	**142**	33-138
MB 400-360468/1-A	VOCs by 8011	4-Bromofluorobenzene	**157**	51-149

Qualifications due to surrogate recoveries were not required due to only one of three base/neutral fraction surrogate recoveries being outside evaluation criteria in the associated PAH samples. Qualifications due to surrogate recoveries were not required for quality control samples MB 400-359871/1-A and MB 400-360468/1-A. Quality control samples 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, samples MW14-ROX-070717 and MW26-ROX-070717 were spiked and analyzed for Method 8260 VOCs, Method 8270 PAHs, Method 8270 SVOCs, and Method 8011 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW14-ROX-070717	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50
MW26-ROX-070717	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50
MW14-ROX-070717	SVOCs	3,3'-Dichlorobenzidine	13/**0**	**NC**	10-172/58
MW14-ROX-070717	SVOCs	Quinoline	44/98	**74**	10-180/40
MW26-ROX-070717	SVOCs	Bis (2-ethylhexyl) phthalate	**529**/93	**134**	43-160/35
MW14-ROX-070717	VOCs by 8011	1,2-Dibromoethane	**62**/106	**NC**	65-135/20
MW26-ROX-070717	VOCs by 8011	1,2-Dibromo-3-chloropropane	**153/150**	4	65-135/20
MW26-ROX-070717	VOCs by 8011	1,2-Dibromoethane	**171/137**	**23**	65-135/20

Analytical data reported as non-detect and associated with MS/MSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with RPD alone outside evaluation criteria did not require qualification. Analytical data that required qualification based on MS/MSD data are included in the table below.

Sample ID	Parameter	Analyte	Qualification
MW14-ROX-070717	VOCs	2-Chloroethyl vinyl ether	**UJ**
MW14-ROX-070717	SVOCs	3,3'-Dichlorobenzidine	**UJ**
MW14-ROX-070717	VOCs by 8011	1,2-Dibromoethane	**UJ**
MW26-ROX-070717	VOCs	2-Chloroethyl vinyl ether	**UJ**

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, with the exception of PAHs in sample MW13-ROX-070717 due to possible matrix interference. PAHs in sample MW13-ROX-070717 were non-detect at a dilution factor of 5X; PAH 8270 SVOCs are historically non-detect for 2017 calendar year. No qualification of data was required.

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: 400-140267-1
Client Project/Site: ROXANA QUARTERLY

For:
AECOM Technical Services Inc.
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Attn: Mrs. Elizabeth Kunkel

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Authorized for release by:
7/27/2017 12:15:45 PM

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Reviewed 8/15/17 CR

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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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Detection Summary 6
Client Sample Results 7
Definitions 33
Surrogate Summary 34
Method Summary 36
Chronicle 37
QC Association 44
QC Sample Results 47
Chain of Custody 79
Receipt Checklists 81
Certification Summary 82

Job ID: 400-140267-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140267-1

Receipt
The samples were received on 7/8/2017 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1°C, 2.3°C and 5.0°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: MW13-ROX-070717 (400-140267-1), MW14-ROX-070717 (400-140267-2), TB-ROX-070717-8260 (400-140267-3), MW-26-ROX-07072017 (400-140267-5), MW-24-ROX-07072017 (400-140267-7) and TB-ROX-07072017-8260-A (400-140267-8). 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 400-360276 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 400-360276 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 sample was received preserved with hydrochloric acid: MW-12-ROX-07072017 (400-140267-6). 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 400-360800 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 400-360800 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method8270D:
The method blank for preparation batch 400-359871 and 400-359871 and analytical batch 400-360149 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 for the following samples MW13-ROX-070717 (400-140267-1), MW14-ROX-070717 (400-140267-2), MW-26-ROX-07072017 (400-140267-5), MW-12-ROX-07072017 (400-140267-6) and (MB 400-359871/1-A)

The continuing calibration verification (CCV) associated with batch 400-360149 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW13-ROX-070717 (400-140267-1), MW14-ROX-070717 (400-140267-2), MW-26-ROX-07072017 (400-140267-5), MW-12-ROX-07072017 (400-140267-6), MW-24-ROX-07072017 (400-140267-7) and (MB 400-359871/1-A).

The following analyte recovered outside control limits for the LCS associated with preparation batch 400-359871 and analytical batch 400-360149: N-Nitrosodimethylamine. This is not indicative of a systematic control problem because this was random marginal exceedances. Qualified results have been reported.

Due to the high concentration of Bis(2-ethylhexyl) phthalate, the matrix spike (MS) for preparation batch 400-359871 and analytical batch 400-360149 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 400-359871 and analytical batch 400-360149 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.

Job ID: 400-140267-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-359871 and analytical batch 400-360149 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.

The method blank for preparation batch 400-360266 and analytical batch 400-361032 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL), data has been reported.

Bis(2-ethylhexyl) phthalate was detected above the reporting limit (RL) in 400-140267-E-7-A associated with 400-359871 . Contamination was suspected, all other samples in the prep batch were not detected above the RL. Re-extracted and/or re-analyzed was performed in hold time. Sample 400-140267-7 was non detect for Bis(2-ethylheyl) phathalate.

Method 8270D LL:
The following samples were diluted due to the nature of the sample matrix: MW13-ROX-070717 (400-140267-1), MW-12-ROX-07072017 (400-140267-6), MW-24-ROX-07072017 (400-140267-7) and (MB 400-359871/1-A). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 400-361519 recovered above the upper control limit for 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: MW13-ROX-070717 (400-140267-1) and (MB 400-359871/1-A).

Surrogate recovery for the following samples was outside the upper control limit: MW13-ROX-070717 (400-140267-1), MW-26-ROX-07072017 (400-140267-5), MW-12-ROX-07072017 (400-140267-6) and (MB 400-359871/1-A). This sample did not contain any target analytes, data has been reported.

GC Semi VOA
Method 8011:
The continuing calibration verification (CCV) associated with batch 400-361274 recovered above the upper control limit for 1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW13-ROX-070717 (400-140267-1), MW14-ROX-070717 (400-140267-2), TB-ROX-070717-8011 (400-140267-4), MW-26-ROX-07072017 (400-140267-5), MW-12-ROX-07072017 (400-140267-6), MW-24-ROX-07072017 (400-140267-7) and TB-ROX-07072017-8011-B (400-140267-9).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-360468 and analytical batch 400-361274 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.

Surrogate recovery for the following sample was outside the upper control limit: (MB 400-360468/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The closing continuing calibration verification (CCV) standard associated with batch 400-361080 failed to meet acceptance limits. The laboratory control sample recovered within limit; therefore, the data has been reported.

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

TestAmerica Job ID: 400-140267-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140267-1	MW13-ROX-070717	Water	07/07/17 11:35	07/08/17 08:20
400-140267-2	MW14-ROX-070717	Water	07/07/17 14:05	07/08/17 08:20
400-140267-3	TB-ROX-070717-8260	Water	07/07/17 00:00	07/08/17 08:20
400-140267-4	TB-ROX-070717-8011	Water	07/07/17 00:00	07/08/17 08:20
400-140267-5	MW-26-ROX-07072017	Water	07/07/17 09:50	07/08/17 08:20
400-140267-6	MW-12-ROX-07072017	Water	07/07/17 11:25	07/08/17 08:20
400-140267-7	MW-24-ROX-07072017	Water	07/07/17 14:40	07/08/17 08:20
400-140267-8	TB-ROX-07072017-8260-A	Water	07/07/17 00:00	07/08/17 08:20
400-140267-9	TB-ROX-07072017-8011-B	Water	07/07/17 00:00	07/08/17 08:20

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW13-ROX-070717 — Lab Sample ID: 400-140267-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	25	10	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	6.7		1.0	0.74	ug/L	1		8260B	Total/NA

Client Sample ID: MW14-ROX-070717 — Lab Sample ID: 400-140267-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.042	J	0.19	0.038	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.056	J	0.19	0.019	ug/L	1		8270D LL	Total/NA

Client Sample ID: TB-ROX-070717-8260 — Lab Sample ID: 400-140267-3

No Detections.

Client Sample ID: TB-ROX-070717-8011 — Lab Sample ID: 400-140267-4

No Detections.

Client Sample ID: MW-26-ROX-07072017 — Lab Sample ID: 400-140267-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.028	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~4.0~~ J	B F1 F2 U	9.7	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW-12-ROX-07072017 — Lab Sample ID: 400-140267-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.031	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.045	J	0.19	0.019	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW-24-ROX-07072017 — Lab Sample ID: 400-140267-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	25	10	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.023	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: TB-ROX-07072017-8260-A — Lab Sample ID: 400-140267-8

No Detections.

Client Sample ID: TB-ROX-07072017-8011-B — Lab Sample ID: 400-140267-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW13-ROX-070717
Date Collected: 07/07/17 11:35
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-1
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			07/13/17 15:15	1
Acrolein	ND		20	10	ug/L			07/13/17 15:15	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 15:15	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 15:15	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 15:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 15:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 15:15	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 15:15	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 15:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 15:15	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 15:15	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 15:15	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 15:15	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 15:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 15:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 15:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 15:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 15:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 15:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 15:15	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 15:15	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 15:15	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 15:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 15:15	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 15:15	1
Methyl tert-butyl ether	**6.7**		1.0	0.74	ug/L			07/13/17 15:15	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 15:15	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 15:15	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 15:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 15:15	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 15:15	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 15:15	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 15:15	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 15:15	1

Client Sample ID: MW13-ROX-070717
Date Collected: 07/07/17 11:35
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-1
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			07/13/17 15:15	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 15:15	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 15:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 15:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 15:15	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 15:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 15:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 15:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 15:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 15:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 15:15	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 15:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 15:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 15:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 15:15	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 15:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 15:15	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 15:15*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 15:15*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 15:15*	*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		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
Acenaphthylene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
Anthracene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
Benzo[a]anthracene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Benzo[a]pyrene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Benzo[b]fluoranthene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Benzo[g,h,i]perylene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Benzo[k]fluoranthene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Chrysene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Dibenz(a,h)anthracene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Fluoranthene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
Fluorene	ND		0.95	0.10	ug/L		07/10/17 11:14	07/24/17 18:08	5
Indeno[1,2,3-cd]pyrene	ND		0.95	0.19	ug/L		07/10/17 11:14	07/24/17 18:08	5
Phenanthrene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
Pyrene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
1-Methylnaphthalene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5
2-Methylnaphthalene	ND		0.95	0.095	ug/L		07/10/17 11:14	07/24/17 18:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*117*		*33 - 138*	*07/10/17 11:14*	*07/24/17 18:08*	*5*
2-Fluorobiphenyl	*146*	X	*15 - 122*	*07/10/17 11:14*	*07/24/17 18:08*	*5*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW13-ROX-070717
Date Collected: 07/07/17 11:35
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	116		19 - 130	07/10/17 11:14	07/24/17 18:08	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		07/10/17 11:14	07/12/17 14:20	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		07/10/17 11:14	07/12/17 14:20	1
Benzoic acid	ND		29	7.0	ug/L		07/10/17 11:14	07/12/17 14:20	1
Benzyl alcohol	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:20	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		07/10/17 11:14	07/12/17 14:20	1
Bis(2-chloroethyl)ether	ND		9.5	0.71	ug/L		07/10/17 11:14	07/12/17 14:20	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		07/10/17 11:14	07/12/17 14:20	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.2	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		07/10/17 11:14	07/12/17 14:20	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Chloroaniline	ND		9.5	3.2	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		07/10/17 11:14	07/12/17 14:20	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		07/10/17 11:14	07/12/17 14:20	1
2-Chlorophenol	ND		9.5	2.1	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:20	1
Dibenz[a,h]acridine	ND		9.5	2.9	ug/L		07/10/17 11:14	07/12/17 14:20	1
Dibenzofuran	ND		9.5	0.50	ug/L		07/10/17 11:14	07/12/17 14:20	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		07/10/17 11:14	07/12/17 14:20	1
Diethyl phthalate	ND		9.5	0.67	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:20	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		07/10/17 11:14	07/12/17 14:20	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		07/10/17 11:14	07/12/17 14:20	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		07/10/17 11:14	07/12/17 14:20	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		07/10/17 11:14	07/12/17 14:20	1
1,4-Dioxane	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:20	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		07/10/17 11:14	07/12/17 14:20	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/10/17 11:14	07/12/17 14:20	1
Hexachloroethane	ND		9.5	4.0	ug/L		07/10/17 11:14	07/12/17 14:20	1
Indene	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:20	1
Isophorone	ND		9.5	0.54	ug/L		07/10/17 11:14	07/12/17 14:20	1
2-Methylphenol	ND		9.5	1.7	ug/L		07/10/17 11:14	07/12/17 14:20	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/10/17 11:14	07/12/17 14:20	1
2-Nitroaniline	ND		9.5	2.1	ug/L		07/10/17 11:14	07/12/17 14:20	1
3-Nitroaniline	ND		9.5	1.7	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Nitroaniline	ND		9.5	2.4	ug/L		07/10/17 11:14	07/12/17 14:20	1
Nitrobenzene	ND		9.5	0.52	ug/L		07/10/17 11:14	07/12/17 14:20	1
2-Nitrophenol	ND		9.5	0.62	ug/L		07/10/17 11:14	07/12/17 14:20	1
4-Nitrophenol	ND		9.5	2.0	ug/L		07/10/17 11:14	07/12/17 14:20	1
N-Nitrosodimethylamine	ND	* UJ	9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:20	1

Client Sample ID: MW13-ROX-070717
Date Collected: 07/07/17 11:35
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-1
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		07/10/17 11:14	07/12/17 14:20	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		07/10/17 11:14	07/12/17 14:20	1
Pentachlorophenol	ND		19	1.7	ug/L		07/10/17 11:14	07/12/17 14:20	1
Phenol	ND		9.5	2.5	ug/L		07/10/17 11:14	07/12/17 14:20	1
Pyridine	ND		9.5	3.0	ug/L		07/10/17 11:14	07/12/17 14:20	1
Quinoline	ND		9.5	5.7	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		07/10/17 11:14	07/12/17 14:20	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*34 - 120*	*07/10/17 11:14*	*07/12/17 14:20*	*1*
2-Fluorophenol	*69*		*10 - 120*	*07/10/17 11:14*	*07/12/17 14:20*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*07/10/17 11:14*	*07/12/17 14:20*	*1*
Phenol-d5	*78*		*10 - 120*	*07/10/17 11:14*	*07/12/17 14:20*	*1*
Terphenyl-d14	*89*		*53 - 125*	*07/10/17 11:14*	*07/12/17 14:20*	*1*
2,4,6-Tribromophenol	*111*		*15 - 135*	*07/10/17 11:14*	*07/12/17 14:20*	*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		0.029	0.0054	ug/L		07/14/17 10:54	07/21/17 12:25	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/14/17 10:54	07/21/17 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*51 - 149*	*07/14/17 10:54*	*07/21/17 12:25*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW14-ROX-070717
Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2
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			07/13/17 12:02	1
Acrolein	ND		20	10	ug/L			07/13/17 12:02	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 12:02	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 12:02	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 12:02	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 12:02	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 12:02	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 12:02	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 12:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 12:02	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			07/13/17 12:02	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 12:02	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 12:02	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 12:02	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 12:02	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 12:02	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 12:02	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 12:02	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 12:02	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 12:02	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 12:02	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 12:02	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 12:02	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 12:02	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 12:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 12:02	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 12:02	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 12:02	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 12:02	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 12:02	1

Client Sample ID: MW14-ROX-070717

Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2

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			07/13/17 12:02	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 12:02	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 12:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 12:02	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 12:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 12:02	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:02	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 12:02	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 12:02	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 12:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 12:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 12:02	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 12:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 12:02	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/13/17 12:02*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 12:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/13/17 12:02*	*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		07/10/17 11:14	07/21/17 22:01	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
Anthracene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Chrysene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Dibenz(a,h)anthracene	**0.042**	**J**	0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Fluoranthene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
Fluorene	ND		0.19	0.020	ug/L		07/10/17 11:14	07/21/17 22:01	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/10/17 11:14	07/21/17 22:01	1
Phenanthrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
Pyrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
1-Methylnaphthalene	**0.056**	**J**	0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*109*		*33 - 138*	*07/10/17 11:14*	*07/21/17 22:01*	*1*
2-Fluorobiphenyl	*85*		*15 - 122*	*07/10/17 11:14*	*07/21/17 22:01*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW14-ROX-070717
Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		19 - 130	07/10/17 11:14	07/21/17 22:01	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		07/10/17 11:14	07/12/17 14:53	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		07/10/17 11:14	07/12/17 14:53	1
Benzoic acid	ND		29	6.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
Benzyl alcohol	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		07/10/17 11:14	07/12/17 14:53	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		07/10/17 11:14	07/12/17 14:53	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		07/10/17 11:14	07/12/17 14:53	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.2	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		07/10/17 11:14	07/12/17 14:53	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Chloroaniline	ND		9.5	3.2	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		07/10/17 11:14	07/12/17 14:53	1
2-Chloronaphthalene	ND		9.5	0.49	ug/L		07/10/17 11:14	07/12/17 14:53	1
2-Chlorophenol	ND		9.5	2.1	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
Dibenz[a,h]acridine	ND		9.5	2.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
Dibenzofuran	ND		9.5	0.49	ug/L		07/10/17 11:14	07/12/17 14:53	1
3,3'-Dichlorobenzidine	ND	F1 UJ	9.5	2.5	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
Diethyl phthalate	ND		9.5	0.67	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:53	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		07/10/17 11:14	07/12/17 14:53	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		07/10/17 11:14	07/12/17 14:53	1
4,6-Dinitro-ortho-cresol	ND		9.5	1.9	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		07/10/17 11:14	07/12/17 14:53	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		07/10/17 11:14	07/12/17 14:53	1
1,4-Dioxane	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:53	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		07/10/17 11:14	07/12/17 14:53	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/10/17 11:14	07/12/17 14:53	1
Hexachloroethane	ND		9.5	4.0	ug/L		07/10/17 11:14	07/12/17 14:53	1
Indene	ND		9.5	0.95	ug/L		07/10/17 11:14	07/12/17 14:53	1
Isophorone	ND		9.5	0.54	ug/L		07/10/17 11:14	07/12/17 14:53	1
2-Methylphenol	ND		9.5	1.7	ug/L		07/10/17 11:14	07/12/17 14:53	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/10/17 11:14	07/12/17 14:53	1
2-Nitroaniline	ND		9.5	2.1	ug/L		07/10/17 11:14	07/12/17 14:53	1
3-Nitroaniline	ND		9.5	1.7	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Nitroaniline	ND		9.5	2.4	ug/L		07/10/17 11:14	07/12/17 14:53	1
Nitrobenzene	ND		9.5	0.52	ug/L		07/10/17 11:14	07/12/17 14:53	1
2-Nitrophenol	ND		9.5	0.62	ug/L		07/10/17 11:14	07/12/17 14:53	1
4-Nitrophenol	ND		9.5	2.0	ug/L		07/10/17 11:14	07/12/17 14:53	1
N-Nitrosodimethylamine	ND	* UJ	9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:53	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW14-ROX-070717
Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2
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		9.5	3.1	ug/L		07/10/17 11:14	07/12/17 14:53	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		07/10/17 11:14	07/12/17 14:53	1
Pentachlorophenol	ND		19	1.7	ug/L		07/10/17 11:14	07/12/17 14:53	1
Phenol	ND		9.5	2.5	ug/L		07/10/17 11:14	07/12/17 14:53	1
Pyridine	ND		9.5	3.0	ug/L		07/10/17 11:14	07/12/17 14:53	1
Quinoline	ND	F2	9.5	5.7	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		07/10/17 11:14	07/12/17 14:53	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		07/10/17 11:14	07/12/17 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*07/10/17 11:14*	*07/12/17 14:53*	*1*
2-Fluorophenol	*58*		*10 - 120*	*07/10/17 11:14*	*07/12/17 14:53*	*1*
Nitrobenzene-d5	*64*		*27 - 120*	*07/10/17 11:14*	*07/12/17 14:53*	*1*
Phenol-d5	*61*		*10 - 120*	*07/10/17 11:14*	*07/12/17 14:53*	*1*
Terphenyl-d14	*74*		*53 - 125*	*07/10/17 11:14*	*07/12/17 14:53*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*07/10/17 11:14*	*07/12/17 14:53*	*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		07/14/17 10:54	07/21/17 12:43	1
1,2-Dibromoethane	ND	F1 UJ	0.020	0.0049	ug/L		07/14/17 10:54	07/21/17 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*51 - 149*	*07/14/17 10:54*	*07/21/17 12:43*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: TB-ROX-070717-8260
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-3
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			07/13/17 10:40	1
Acrolein	ND		20	10	ug/L			07/13/17 10:40	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 10:40	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 10:40	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 10:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 10:40	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 10:40	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 10:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 10:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 10:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 10:40	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 10:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 10:40	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 10:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 10:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 10:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 10:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 10:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 10:40	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 10:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 10:40	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 10:40	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 10:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 10:40	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 10:40	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 10:40	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 10:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 10:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 10:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 10:40	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 10:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 10:40	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 10:40	1

Client Sample ID: TB-ROX-070717-8260
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-3
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			07/13/17 10:40	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 10:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 10:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 10:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 10:40	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 10:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 10:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 10:40	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 10:40	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 10:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 10:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 10:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 10:40	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 10:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 10:40	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 10:40*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/13/17 10:40*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 10:40*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: TB-ROX-070717-8011
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-4
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		0.031	0.0056	ug/L		07/14/17 10:54	07/21/17 21:26	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/14/17 10:54	07/21/17 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*142*		*51 - 149*	*07/14/17 10:54*	*07/21/17 21:26*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW-26-ROX-07072017
Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5
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			07/13/17 12:30	1
Acrolein	ND		20	10	ug/L			07/13/17 12:30	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 12:30	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 12:30	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 12:30	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 12:30	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 12:30	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 12:30	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 12:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 12:30	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			07/13/17 12:30	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 12:30	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 12:30	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 12:30	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 12:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 12:30	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 12:30	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 12:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 12:30	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 12:30	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 12:30	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 12:30	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 12:30	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 12:30	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 12:30	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 12:30	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 12:30	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 12:30	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 12:30	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 12:30	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 12:30	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 12:30	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 12:30	1

Client Sample ID: MW-26-ROX-07072017
Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5
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			07/13/17 12:30	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 12:30	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 12:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 12:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 12:30	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 12:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 12:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 12:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 12:30	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 12:30	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 12:30	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 12:30	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 12:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 12:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 12:30	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 12:30	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 12:30	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 12:30*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/13/17 12:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 12:30*	*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		07/10/17 11:14	07/22/17 00:19	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
Anthracene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
Benzo[a]anthracene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Benzo[a]pyrene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Benzo[b]fluoranthene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Benzo[g,h,i]perylene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Benzo[k]fluoranthene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Chrysene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Dibenz(a,h)anthracene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Fluoranthene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
Fluorene	ND		0.19	0.020	ug/L		07/10/17 11:14	07/22/17 00:19	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/22/17 00:19	1
Phenanthrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
Pyrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1
2-Methylnaphthalene	**0.028**	**J**	0.19	0.019	ug/L		07/10/17 11:14	07/22/17 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*144*	*X*	*33 - 138*	*07/10/17 11:14*	*07/24/17 17:45*	*2*
2-Fluorobiphenyl	*104*		*15 - 122*	*07/10/17 11:14*	*07/22/17 00:19*	*1*

Client Sample ID: MW-26-ROX-07072017

Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*74*		*19 - 130*	*07/10/17 11:14*	*07/22/17 00:19*	*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		07/10/17 11:14	07/12/17 16:35	1
Benzenethiol	ND	* UJ	9.7	1.6	ug/L		07/10/17 11:14	07/12/17 16:35	1
Benzoic acid	ND		29	7.0	ug/L		07/10/17 11:14	07/12/17 16:35	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 16:35	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/10/17 11:14	07/12/17 16:35	1
Bis(2-chloroethyl)ether	ND		9.7	0.71	ug/L		07/10/17 11:14	07/12/17 16:35	1
bis (2-chloroisopropyl) ether	ND		9.7	0.78	ug/L		07/10/17 11:14	07/12/17 16:35	1
Bis(2-ethylhexyl) phthalate	~~4.8~~ J	B F1 F2 U	9.7	2.2	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/10/17 11:14	07/12/17 16:35	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/10/17 11:14	07/12/17 16:35	1
2-Chloronaphthalene	ND		9.7	0.50	ug/L		07/10/17 11:14	07/12/17 16:35	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 16:35	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		07/10/17 11:14	07/12/17 16:35	1
Dibenzofuran	ND		9.7	0.50	ug/L		07/10/17 11:14	07/12/17 16:35	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/10/17 11:14	07/12/17 16:35	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4-Dimethylphenol	ND		9.7	3.4	ug/L		07/10/17 11:14	07/12/17 16:35	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/10/17 11:14	07/12/17 16:35	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/10/17 11:14	07/12/17 16:35	1
4,6-Dinitro-ortho-cresol	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 16:35	1
Di-n-octyl phthalate	ND		9.7	0.42	ug/L		07/10/17 11:14	07/12/17 16:35	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 16:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 16:35	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/10/17 11:14	07/12/17 16:35	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/10/17 11:14	07/12/17 16:35	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/10/17 11:14	07/12/17 16:35	1
Indene	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 16:35	1
Isophorone	ND		9.7	0.55	ug/L		07/10/17 11:14	07/12/17 16:35	1
2-Methylphenol	ND		9.7	1.7	ug/L		07/10/17 11:14	07/12/17 16:35	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/10/17 11:14	07/12/17 16:35	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/10/17 11:14	07/12/17 16:35	1
3-Nitroaniline	ND		9.7	1.7	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/10/17 11:14	07/12/17 16:35	1
Nitrobenzene	ND		9.7	0.53	ug/L		07/10/17 11:14	07/12/17 16:35	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/10/17 11:14	07/12/17 16:35	1
4-Nitrophenol	ND		9.7	2.0	ug/L		07/10/17 11:14	07/12/17 16:35	1
N-Nitrosodimethylamine	ND	* UJ	9.7	3.4	ug/L		07/10/17 11:14	07/12/17 16:35	1

Client Sample ID: MW-26-ROX-07072017
Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5
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		9.7	3.2	ug/L		07/10/17 11:14	07/12/17 16:35	1
N-Nitrosodiphenylamine	ND		9.7	0.45	ug/L		07/10/17 11:14	07/12/17 16:35	1
Pentachlorophenol	ND		19	1.7	ug/L		07/10/17 11:14	07/12/17 16:35	1
Phenol	ND		9.7	2.5	ug/L		07/10/17 11:14	07/12/17 16:35	1
Pyridine	ND		9.7	3.1	ug/L		07/10/17 11:14	07/12/17 16:35	1
Quinoline	ND		9.7	5.8	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/10/17 11:14	07/12/17 16:35	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/10/17 11:14	07/12/17 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*34 - 120*	*07/10/17 11:14*	*07/12/17 16:35*	*1*
2-Fluorophenol	*60*		*10 - 120*	*07/10/17 11:14*	*07/12/17 16:35*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*07/10/17 11:14*	*07/12/17 16:35*	*1*
Phenol-d5	*72*		*10 - 120*	*07/10/17 11:14*	*07/12/17 16:35*	*1*
Terphenyl-d14	*100*		*53 - 125*	*07/10/17 11:14*	*07/12/17 16:35*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*07/10/17 11:14*	*07/12/17 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	F1	0.030	0.0054	ug/L		07/14/17 10:54	07/21/17 21:45	1
1,2-Dibromoethane	ND	F2 F1	0.020	0.0049	ug/L		07/14/17 10:54	07/21/17 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*148*		*51 - 149*	*07/14/17 10:54*	*07/21/17 21:45*	*1*

Client Sample ID: MW-12-ROX-07072017

Date Collected: 07/07/17 11:25
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-6

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			07/18/17 15:54	1
Acrolein	ND		20	10	ug/L			07/18/17 15:54	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 15:54	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 15:54	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 15:54	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 15:54	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 15:54	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 15:54	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 15:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 15:54	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 15:54	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 15:54	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 15:54	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 15:54	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 15:54	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 15:54	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 15:54	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 15:54	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 15:54	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 15:54	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 15:54	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 15:54	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 15:54	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 15:54	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 15:54	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 15:54	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 15:54	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 15:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 15:54	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 15:54	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 15:54	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 15:54	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 15:54	1

Client Sample ID: MW-12-ROX-07072017
Date Collected: 07/07/17 11:25
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-6
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			07/18/17 15:54	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 15:54	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 15:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 15:54	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 15:54	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 15:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 15:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 15:54	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:54	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 15:54	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 15:54	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 15:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 15:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 15:54	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 15:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 15:54	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/18/17 15:54*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 15:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 15:54*	*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		07/10/17 11:14	07/21/17 23:33	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
Anthracene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
Benzo[a]anthracene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Benzo[a]pyrene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Benzo[b]fluoranthene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Benzo[g,h,i]perylene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Benzo[k]fluoranthene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Chrysene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Dibenz(a,h)anthracene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Fluoranthene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
Fluorene	ND		0.19	0.020	ug/L		07/10/17 11:14	07/21/17 23:33	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.039	ug/L		07/10/17 11:14	07/21/17 23:33	1
Phenanthrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
Pyrene	ND		0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
1-Methylnaphthalene	**0.031**	**J**	0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1
2-Methylnaphthalene	**0.045**	**J**	0.19	0.019	ug/L		07/10/17 11:14	07/21/17 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*152*	*X*	*33 - 138*	*07/10/17 11:14*	*07/24/17 17:22*	*2*
2-Fluorobiphenyl	*107*		*15 - 122*	*07/10/17 11:14*	*07/21/17 23:33*	*1*

Client Sample ID: MW-12-ROX-07072017
Date Collected: 07/07/17 11:25
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-6
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*	*07/10/17 11:14*	*07/21/17 23:33*	*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		07/10/17 11:14	07/12/17 18:15	1
Benzenethiol	ND	* UJ	9.7	1.7	ug/L		07/10/17 11:14	07/12/17 18:15	1
Benzoic acid	ND		29	7.1	ug/L		07/10/17 11:14	07/12/17 18:15	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 18:15	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/10/17 11:14	07/12/17 18:15	1
Bis(2-chloroethyl)ether	ND		9.7	0.72	ug/L		07/10/17 11:14	07/12/17 18:15	1
bis (2-chloroisopropyl) ether	ND		9.7	0.79	ug/L		07/10/17 11:14	07/12/17 18:15	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.2	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/10/17 11:14	07/12/17 18:15	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/10/17 11:14	07/12/17 18:15	1
2-Chloronaphthalene	ND		9.7	0.51	ug/L		07/10/17 11:14	07/12/17 18:15	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 18:15	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		07/10/17 11:14	07/12/17 18:15	1
Dibenzofuran	ND		9.7	0.51	ug/L		07/10/17 11:14	07/12/17 18:15	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/10/17 11:14	07/12/17 18:15	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4-Dimethylphenol	ND		9.7	3.4	ug/L		07/10/17 11:14	07/12/17 18:15	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/10/17 11:14	07/12/17 18:15	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/10/17 11:14	07/12/17 18:15	1
4,6-Dinitro-ortho-cresol	ND		9.7	1.9	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
Di-n-octyl phthalate	ND		9.7	0.43	ug/L		07/10/17 11:14	07/12/17 18:15	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 18:15	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 18:15	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/10/17 11:14	07/12/17 18:15	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/10/17 11:14	07/12/17 18:15	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/10/17 11:14	07/12/17 18:15	1
Indene	ND		9.7	0.97	ug/L		07/10/17 11:14	07/12/17 18:15	1
Isophorone	ND		9.7	0.55	ug/L		07/10/17 11:14	07/12/17 18:15	1
2-Methylphenol	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/10/17 11:14	07/12/17 18:15	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/10/17 11:14	07/12/17 18:15	1
3-Nitroaniline	ND		9.7	1.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/10/17 11:14	07/12/17 18:15	1
Nitrobenzene	ND		9.7	0.54	ug/L		07/10/17 11:14	07/12/17 18:15	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/10/17 11:14	07/12/17 18:15	1
4-Nitrophenol	ND		9.7	2.0	ug/L		07/10/17 11:14	07/12/17 18:15	1
N-Nitrosodimethylamine	ND	* UJ	9.7	3.4	ug/L		07/10/17 11:14	07/12/17 18:15	1

Client Sample ID: MW-12-ROX-07072017
Date Collected: 07/07/17 11:25
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-6
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		9.7	3.2	ug/L		07/10/17 11:14	07/12/17 18:15	1
N-Nitrosodiphenylamine	ND		9.7	0.46	ug/L		07/10/17 11:14	07/12/17 18:15	1
Pentachlorophenol	ND		19	1.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
Phenol	ND		9.7	2.5	ug/L		07/10/17 11:14	07/12/17 18:15	1
Pyridine	ND		9.7	3.1	ug/L		07/10/17 11:14	07/12/17 18:15	1
Quinoline	ND		9.7	5.8	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/10/17 11:14	07/12/17 18:15	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/10/17 11:14	07/12/17 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*07/10/17 11:14*	*07/12/17 18:15*	*1*
2-Fluorophenol	*43*		*10 - 120*	*07/10/17 11:14*	*07/12/17 18:15*	*1*
Nitrobenzene-d5	*82*		*27 - 120*	*07/10/17 11:14*	*07/12/17 18:15*	*1*
Phenol-d5	*57*		*10 - 120*	*07/10/17 11:14*	*07/12/17 18:15*	*1*
Terphenyl-d14	*103*		*53 - 125*	*07/10/17 11:14*	*07/12/17 18:15*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*07/10/17 11:14*	*07/12/17 18:15*	*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		07/14/17 10:54	07/21/17 22:40	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/14/17 10:54	07/21/17 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*129*		*51 - 149*	*07/14/17 10:54*	*07/21/17 22:40*	*1*

Client Sample ID: MW-24-ROX-07072017
Date Collected: 07/07/17 14:40
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**12**	**J**	25	10	ug/L			07/13/17 16:09	1
Acrolein	ND		20	10	ug/L			07/13/17 16:09	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 16:09	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 16:09	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 16:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 16:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 16:09	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 16:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 16:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 16:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 16:09	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 16:09	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 16:09	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 16:09	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 16:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 16:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 16:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 16:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 16:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 16:09	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 16:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 16:09	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 16:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 16:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 16:09	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 16:09	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 16:09	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 16:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 16:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 16:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 16:09	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 16:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 16:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 16:09	1

Client Sample ID: MW-24-ROX-07072017
Date Collected: 07/07/17 14:40
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/13/17 16:09	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 16:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 16:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 16:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 16:09	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 16:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 16:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 16:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 16:09	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:09	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 16:09	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 16:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 16:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 16:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 16:09	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 16:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 16:09	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/13/17 16:09*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 16:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/13/17 16:09*	*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		07/10/17 11:14	07/21/17 23:56	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
Anthracene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Chrysene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Fluoranthene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
Fluorene	ND		0.20	0.021	ug/L		07/10/17 11:14	07/21/17 23:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		07/10/17 11:14	07/21/17 23:56	1
Phenanthrene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
Pyrene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1
2-Methylnaphthalene	**0.023**	**J**	0.20	0.020	ug/L		07/10/17 11:14	07/21/17 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*93*		*33 - 138*	*07/10/17 11:14*	*07/21/17 23:56*	*1*
2-Fluorobiphenyl	*79*		*15 - 122*	*07/10/17 11:14*	*07/21/17 23:56*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: MW-24-ROX-07072017
Date Collected: 07/07/17 14:40
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*56*		*19 - 130*	*07/10/17 11:14*	*07/21/17 23:56*	*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		07/10/17 11:14	07/12/17 18:49	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		07/10/17 11:14	07/12/17 18:49	1
Benzoic acid	ND		29	7.1	ug/L		07/10/17 11:14	07/12/17 18:49	1
Benzyl alcohol	ND		9.8	2.0	ug/L		07/10/17 11:14	07/12/17 18:49	1
Bis(2-chloroethoxy)methane	ND		9.8	0.67	ug/L		07/10/17 11:14	07/12/17 18:49	1
Bis(2-chloroethyl)ether	ND		9.8	0.72	ug/L		07/10/17 11:14	07/12/17 18:49	1
bis (2-chloroisopropyl) ether	ND		9.8	0.79	ug/L		07/10/17 11:14	07/12/17 18:49	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/13/17 10:53	07/20/17 12:35	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		07/10/17 11:14	07/12/17 18:49	1
Butyl benzyl phthalate	ND		9.8	0.67	ug/L		07/10/17 11:14	07/12/17 18:49	1
4-Chloroaniline	ND		9.8	3.3	ug/L		07/10/17 11:14	07/12/17 18:49	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		07/10/17 11:14	07/12/17 18:49	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		07/10/17 11:14	07/12/17 18:49	1
2-Chlorophenol	ND		9.8	2.2	ug/L		07/10/17 11:14	07/12/17 18:49	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		07/10/17 11:14	07/12/17 18:49	1
Dibenz[a,h]acridine	ND		9.8	2.9	ug/L		07/10/17 11:14	07/12/17 18:49	1
Dibenzofuran	ND		9.8	0.51	ug/L		07/10/17 11:14	07/12/17 18:49	1
3,3'-Dichlorobenzidine	ND		9.8	2.5	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4-Dichlorophenol	ND		9.8	2.9	ug/L		07/10/17 11:14	07/12/17 18:49	1
Diethyl phthalate	ND		9.8	0.68	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		07/10/17 11:14	07/12/17 18:49	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		07/10/17 11:14	07/12/17 18:49	1
Di-n-butyl phthalate	ND		9.8	2.6	ug/L		07/10/17 11:14	07/12/17 18:49	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		07/10/17 11:14	07/12/17 18:49	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		07/10/17 11:14	07/12/17 18:49	1
1,4-Dioxane	ND		9.8	0.98	ug/L		07/10/17 11:14	07/12/17 18:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		07/10/17 11:14	07/12/17 18:49	1
Hexachlorobenzene	ND		9.8	0.24	ug/L		07/10/17 11:14	07/12/17 18:49	1
Hexachlorocyclopentadiene	ND		20	2.5	ug/L		07/10/17 11:14	07/12/17 18:49	1
Hexachloroethane	ND		9.8	4.1	ug/L		07/10/17 11:14	07/12/17 18:49	1
Indene	ND		9.8	0.98	ug/L		07/10/17 11:14	07/12/17 18:49	1
Isophorone	ND		9.8	0.56	ug/L		07/10/17 11:14	07/12/17 18:49	1
2-Methylphenol	ND		9.8	1.8	ug/L		07/10/17 11:14	07/12/17 18:49	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/10/17 11:14	07/12/17 18:49	1
2-Nitroaniline	ND		9.8	2.2	ug/L		07/10/17 11:14	07/12/17 18:49	1
3-Nitroaniline	ND		9.8	1.8	ug/L		07/10/17 11:14	07/12/17 18:49	1
4-Nitroaniline	ND		9.8	2.4	ug/L		07/10/17 11:14	07/12/17 18:49	1
Nitrobenzene	ND		9.8	0.54	ug/L		07/10/17 11:14	07/12/17 18:49	1
2-Nitrophenol	ND		9.8	0.64	ug/L		07/10/17 11:14	07/12/17 18:49	1
4-Nitrophenol	ND		9.8	2.1	ug/L		07/10/17 11:14	07/12/17 18:49	1
N-Nitrosodimethylamine	ND	* UJ	9.8	3.4	ug/L		07/10/17 11:14	07/12/17 18:49	1

Client Sample ID: MW-24-ROX-07072017
Date Collected: 07/07/17 14:40
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-7
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		9.8	3.2	ug/L		07/10/17 11:14	07/12/17 18:49	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		07/10/17 11:14	07/12/17 18:49	1
Pentachlorophenol	ND		20	1.8	ug/L		07/10/17 11:14	07/12/17 18:49	1
Phenol	ND		9.8	2.5	ug/L		07/10/17 11:14	07/12/17 18:49	1
Pyridine	ND		9.8	3.1	ug/L		07/10/17 11:14	07/12/17 18:49	1
Quinoline	ND		9.8	5.9	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		07/10/17 11:14	07/12/17 18:49	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		07/10/17 11:14	07/12/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*34 - 120*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
2-Fluorobiphenyl	*76*		*34 - 120*	*07/13/17 10:53*	*07/20/17 12:35*	*1*
2-Fluorophenol	*62*		*10 - 120*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
2-Fluorophenol	*48*		*10 - 120*	*07/13/17 10:53*	*07/20/17 12:35*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
Nitrobenzene-d5	*64*		*27 - 120*	*07/13/17 10:53*	*07/20/17 12:35*	*1*
Phenol-d5	*66*		*10 - 120*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
Phenol-d5	*56*		*10 - 120*	*07/13/17 10:53*	*07/20/17 12:35*	*1*
Terphenyl-d14	*88*		*53 - 125*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
Terphenyl-d14	*69*		*53 - 125*	*07/13/17 10:53*	*07/20/17 12:35*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*07/10/17 11:14*	*07/12/17 18:49*	*1*
2,4,6-Tribromophenol	*72*		*15 - 135*	*07/13/17 10:53*	*07/20/17 12:35*	*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	0.0054	ug/L		07/14/17 10:54	07/21/17 23:17	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/14/17 10:54	07/21/17 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*135*		*51 - 149*	*07/14/17 10:54*	*07/21/17 23:17*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: TB-ROX-07072017-8260-A
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-8
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			07/13/17 11:08	1
Acrolein	ND		20	10	ug/L			07/13/17 11:08	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 11:08	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 11:08	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 11:08	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 11:08	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 11:08	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 11:08	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 11:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 11:08	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 11:08	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 11:08	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 11:08	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 11:08	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 11:08	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 11:08	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 11:08	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 11:08	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 11:08	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 11:08	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 11:08	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 11:08	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 11:08	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 11:08	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 11:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 11:08	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 11:08	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 11:08	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 11:08	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 11:08	1

Client Sample ID: TB-ROX-07072017-8260-A
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-8
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			07/13/17 11:08	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 11:08	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 11:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 11:08	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 11:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 11:08	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 11:08	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 11:08	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 11:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 11:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 11:08	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 11:08	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 11:08	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 11:08*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*07/13/17 11:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/13/17 11:08*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Client Sample ID: TB-ROX-07072017-8011-B
Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-9
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		07/14/17 10:54	07/21/17 23:36	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		07/14/17 10:54	07/21/17 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*130*		*51 - 149*	*07/14/17 10:54*	*07/21/17 23:36*	*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
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 400-140267-1

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)
400-140267-1	MW13-ROX-070717	100	101	96
400-140267-2	MW14-ROX-070717	101	101	95
400-140267-2 MS	MW14-ROX-070717	99	102	96
400-140267-2 MSD	MW14-ROX-070717	100	103	96
400-140267-3	TB-ROX-070717-8260	100	102	96
400-140267-5	MW-26-ROX-07072017	100	100	96
400-140267-5 MS	MW-26-ROX-07072017	99	103	96
400-140267-5 MSD	MW-26-ROX-07072017	100	103	97
400-140267-6	MW-12-ROX-07072017	100	102	97
400-140267-7	MW-24-ROX-07072017	99	101	97
400-140267-8	TB-ROX-07072017-8260-A	100	99	98
400-140347-B-1 MS	Matrix Spike	100	103	99
400-140347-B-1 MSD	Matrix Spike Duplicate	101	103	98
LCS 400-360276/1003	Lab Control Sample	100	102	97
LCS 400-360800/1003	Lab Control Sample	101	104	97
MB 400-360276/5	Method Blank	99	98	97
MB 400-360800/5	Method Blank	101	101	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)
400-140267-1	MW13-ROX-070717	96	69	80	78	89	111
400-140267-2	MW14-ROX-070717	72	58	64	61	74	88
400-140267-2 MS	MW14-ROX-070717	95	60	76	73	98	110
400-140267-2 MSD	MW14-ROX-070717	91	58	72	70	96	110
400-140267-5	MW-26-ROX-07072017	89	60	77	72	100	97
400-140267-5 MS	MW-26-ROX-07072017	87	59	72	69	95	108
400-140267-5 MSD	MW-26-ROX-07072017	85	56	70	67	99	106
400-140267-6	MW-12-ROX-07072017	94	43	82	57	103	86
400-140267-7	MW-24-ROX-07072017	84	62	71	66	88	97
400-140267-7	MW-24-ROX-07072017	76	48	64	56	69	72
LCS 400-359871/13-A	Lab Control Sample	74	30	63	50	78	48
LCS 400-359871/2-A	Lab Control Sample	83	60	67	68	87	93
LCS 400-360266/2-A	Lab Control Sample	78	63	70	69	72	91
LCSD 400-359871/14-A	Lab Control Sample Dup	98	48	81	71	104	61
LCSD 400-360266/3-A	Lab Control Sample Dup	106	89	94	86	96	125
MB 400-359871/1-A	Method Blank	94	72	79	79	104	90
MB 400-360266/1-A	Method Blank	78	60	70	61	75	63

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)
400-140267-1	MW13-ROX-070717	117	146 X	116
400-140267-2	MW14-ROX-070717	109	85	62
400-140267-2 MS	MW14-ROX-070717	88	99	58
400-140267-2 MSD	MW14-ROX-070717	88	98	54
400-140267-5	MW-26-ROX-07072017		104	74
400-140267-5	MW-26-ROX-07072017	144 X		
400-140267-5 MS	MW-26-ROX-07072017	85	99	57
400-140267-5 MSD	MW-26-ROX-07072017	91	99	57
400-140267-6	MW-12-ROX-07072017		107	80
400-140267-6	MW-12-ROX-07072017	152 X		
400-140267-7	MW-24-ROX-07072017	93	79	56
LCS 400-359871/2-A	Lab Control Sample	89	102	57
LCSD 400-359871/3-A	Lab Control Sample Dup	86	93	53
MB 400-359871/1-A	Method Blank		106	79
MB 400-359871/1-A	Method Blank	142 X		

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)
400-140267-1	MW13-ROX-070717	88
400-140267-2	MW14-ROX-070717	109
400-140267-2 MS	MW14-ROX-070717	90
400-140267-2 MSD	MW14-ROX-070717	90
400-140267-4	TB-ROX-070717-8011	142
400-140267-5	MW-26-ROX-07072017	148
400-140267-5 MS	MW-26-ROX-07072017	130
400-140267-5 MSD	MW-26-ROX-07072017	120
400-140267-6	MW-12-ROX-07072017	129
400-140267-7	MW-24-ROX-07072017	135
400-140267-9	TB-ROX-07072017-8011-B	130
LCS 400-360468/2-A	Lab Control Sample	107
MB 400-360468/1-A	Method Blank	157 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

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: MW13-ROX-070717

Lab Sample ID: 400-140267-1

Date Collected: 07/07/17 11:35
Matrix: Water
Date Received: 07/08/17 08:20

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	360276	07/13/17 15:15	SAB	TAL PEN
Total/NA	Prep	3520C			1049.2 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 14:20	S1B	TAL PEN
Total/NA	Prep	3520C			1049.2 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361519	07/24/17 18:08	PP1	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 12:25	MAM	TAL PEN

Client Sample ID: MW14-ROX-070717

Lab Sample ID: 400-140267-2

Date Collected: 07/07/17 14:05
Matrix: Water
Date Received: 07/08/17 08:20

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	360276	07/13/17 12:02	SAB	TAL PEN
Total/NA	Prep	3520C			1050.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 14:53	S1B	TAL PEN
Total/NA	Prep	3520C			1050.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		1			361353	07/21/17 22:01	PP1	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 12:43	MAM	TAL PEN

Client Sample ID: TB-ROX-070717-8260

Lab Sample ID: 400-140267-3

Date Collected: 07/07/17 00:00
Matrix: Water
Date Received: 07/08/17 08:20

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	360276	07/13/17 10:40	SAB	TAL PEN

Client Sample ID: TB-ROX-070717-8011

Lab Sample ID: 400-140267-4

Date Collected: 07/07/17 00:00
Matrix: Water
Date Received: 07/08/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.3 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 21:26	MAM	TAL PEN

Client Sample ID: MW-26-ROX-07072017

Lab Sample ID: 400-140267-5

Date Collected: 07/07/17 09:50
Matrix: Water
Date Received: 07/08/17 08:20

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	360276	07/13/17 12:30	SAB	TAL PEN

Client Sample ID: MW-26-ROX-07072017

Lab Sample ID: 400-140267-5

Date Collected: 07/07/17 09:50

Matrix: Water

Date Received: 07/08/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1035.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 16:35	S1B	TAL PEN
Total/NA	Prep	3520C			1035.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		1			361353	07/22/17 00:19	PP1	TAL PEN
Total/NA	Prep	3520C			1035.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		2			361519	07/24/17 17:45	PP1	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 21:45	MAM	TAL PEN

Client Sample ID: MW-12-ROX-07072017

Lab Sample ID: 400-140267-6

Date Collected: 07/07/17 11:25

Matrix: Water

Date Received: 07/08/17 08:20

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	360800	07/18/17 15:54	SAB	TAL PEN
Total/NA	Prep	3520C			1028 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 18:15	S1B	TAL PEN
Total/NA	Prep	3520C			1028 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		1			361353	07/21/17 23:33	PP1	TAL PEN
Total/NA	Prep	3520C			1028 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		2			361519	07/24/17 17:22	PP1	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 22:40	MAM	TAL PEN

Client Sample ID: MW-24-ROX-07072017

Lab Sample ID: 400-140267-7

Date Collected: 07/07/17 14:40

Matrix: Water

Date Received: 07/08/17 08:20

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	360276	07/13/17 16:09	SAB	TAL PEN
Total/NA	Prep	3520C			1022.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 18:49	S1B	TAL PEN
Total/NA	Prep	3520C			1008.4 mL	1.0 mL	360266	07/13/17 10:53	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 12:35	S1B	TAL PEN
Total/NA	Prep	3520C			1022.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		1			361353	07/21/17 23:56	PP1	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 23:17	MAM	TAL PEN

Client Sample ID: TB-ROX-07072017-8260-A

Lab Sample ID: 400-140267-8

Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

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	360276	07/13/17 11:08	SAB	TAL PEN

Client Sample ID: TB-ROX-07072017-8011-B

Lab Sample ID: 400-140267-9

Date Collected: 07/07/17 00:00
Date Received: 07/08/17 08:20

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			33.7 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 23:36	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-359871/1-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	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 12:06	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		1			361353	07/21/17 21:14	PP1	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		2			361519	07/24/17 16:59	PP1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360266/1-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 16:24	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360276/5

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	360276	07/13/17 10:13	SAB	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360468/1-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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 17:07	MAM	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360800/5

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	360800	07/18/17 12:14	SAB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-359871/13-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	359871	07/10/17 11:19	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 13:13	S1B	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-359871/2-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	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 12:39	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/21/17 21:37	PP1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360266/2-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 16:55	MAM	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360276/1003

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	360276	07/13/17 09:15	SAB	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-360468/2-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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361080	07/19/17 19:07	DS	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-360800/1003
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	360800	07/18/17 11:16	SAB	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-359871/14-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	359871	07/10/17 11:19	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 13:46	S1B	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-359871/3-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	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/22/17 01:28	PP1	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-360266/3-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 17:26	MAM	TAL PEN

Client Sample ID: MW14-ROX-070717
Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2 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	360276	07/13/17 12:57	SAB	TAL PEN
Total/NA	Prep	3520C			1039.2 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 15:27	S1B	TAL PEN

Client Sample ID: MW14-ROX-070717

Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2 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	3520C			1039.2 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/21/17 22:24	PP1	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 13:02	MAM	TAL PEN

Client Sample ID: MW14-ROX-070717

Date Collected: 07/07/17 14:05
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-2 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	360276	07/13/17 13:25	SAB	TAL PEN
Total/NA	Prep	3520C			1052.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 16:01	S1B	TAL PEN
Total/NA	Prep	3520C			1052.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/21/17 22:47	PP1	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 13:21	MAM	TAL PEN

Client Sample ID: MW-26-ROX-07072017

Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5 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	360276	07/13/17 13:52	SAB	TAL PEN
Total/NA	Prep	3520C			1040.4 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 17:08	S1B	TAL PEN
Total/NA	Prep	3520C			1040.4 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/22/17 00:42	PP1	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 22:04	MAM	TAL PEN

Client Sample ID: MW-26-ROX-07072017

Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-5 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	360276	07/13/17 14:20	SAB	TAL PEN
Total/NA	Prep	3520C			1019.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D		1			360149	07/12/17 17:42	S1B	TAL PEN
Total/NA	Prep	3520C			1019.8 mL	1 mL	359871	07/10/17 11:14	RMC	TAL PEN
Total/NA	Analysis	8270D LL		5			361353	07/22/17 01:05	PP1	TAL PEN
Total/NA	Prep	8011			35.9 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 22:22	MAM	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-140347-B-1 MS**
Date Collected: 07/10/17 09:35 — **Matrix: Water**
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:04	SAB	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-140347-B-1 MSD**
Date Collected: 07/10/17 09:35 — **Matrix: Water**
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:31	SAB	TAL PEN

Laboratory References:

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

GC/MS VOA

Analysis Batch: 360276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	8260B	
400-140267-2	MW14-ROX-070717	Total/NA	Water	8260B	
400-140267-3	TB-ROX-070717-8260	Total/NA	Water	8260B	
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8260B	
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8260B	
400-140267-8	TB-ROX-07072017-8260-A	Total/NA	Water	8260B	
MB 400-360276/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360276/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	8260B	
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	8260B	
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	8260B	
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	8260B	

Analysis Batch: 360800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8260B	
MB 400-360800/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360800/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140347-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-140347-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 359871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	3520C	
400-140267-2	MW14-ROX-070717	Total/NA	Water	3520C	
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	3520C	
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	3520C	
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	3520C	
MB 400-359871/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-359871/13-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-359871/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-359871/14-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-359871/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	3520C	
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	3520C	
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	3520C	
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	3520C	

Analysis Batch: 360149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	8270D	359871
400-140267-2	MW14-ROX-070717	Total/NA	Water	8270D	359871
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8270D	359871
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8270D	359871
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8270D	359871
MB 400-359871/1-A	Method Blank	Total/NA	Water	8270D	359871
LCS 400-359871/13-A	Lab Control Sample	Total/NA	Water	8270D	359871
LCS 400-359871/2-A	Lab Control Sample	Total/NA	Water	8270D	359871

GC/MS Semi VOA (Continued)

Analysis Batch: 360149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-359871/14-A	Lab Control Sample Dup	Total/NA	Water	8270D	359871
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	8270D	359871
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	8270D	359871
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	8270D	359871
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	8270D	359871

Prep Batch: 360266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	3520C	
MB 400-360266/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360266/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360266/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 361032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-360266/1-A	Method Blank	Total/NA	Water	8270D	360266
LCS 400-360266/2-A	Lab Control Sample	Total/NA	Water	8270D	360266
LCSD 400-360266/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360266

Analysis Batch: 361135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8270D	360266

Analysis Batch: 361353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-2	MW14-ROX-070717	Total/NA	Water	8270D LL	359871
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8270D LL	359871
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8270D LL	359871
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8270D LL	359871
MB 400-359871/1-A	Method Blank	Total/NA	Water	8270D LL	359871
LCS 400-359871/2-A	Lab Control Sample	Total/NA	Water	8270D LL	359871
LCSD 400-359871/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	359871
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	8270D LL	359871
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	8270D LL	359871
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	8270D LL	359871
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	8270D LL	359871

Analysis Batch: 361519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	8270D LL	359871
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8270D LL	359871
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8270D LL	359871
MB 400-359871/1-A	Method Blank	Total/NA	Water	8270D LL	359871

GC Semi VOA

Prep Batch: 360468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	8011	
400-140267-2	MW14-ROX-070717	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 360468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-4	TB-ROX-070717-8011	Total/NA	Water	8011	
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8011	
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8011	
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8011	
400-140267-9	TB-ROX-07072017-8011-B	Total/NA	Water	8011	
MB 400-360468/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-360468/2-A	Lab Control Sample	Total/NA	Water	8011	
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	8011	
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	8011	
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	8011	
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	8011	

Analysis Batch: 361080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-360468/2-A	Lab Control Sample	Total/NA	Water	8011	360468

Analysis Batch: 361274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140267-1	MW13-ROX-070717	Total/NA	Water	8011	360468
400-140267-2	MW14-ROX-070717	Total/NA	Water	8011	360468
400-140267-4	TB-ROX-070717-8011	Total/NA	Water	8011	360468
400-140267-5	MW-26-ROX-07072017	Total/NA	Water	8011	360468
400-140267-6	MW-12-ROX-07072017	Total/NA	Water	8011	360468
400-140267-7	MW-24-ROX-07072017	Total/NA	Water	8011	360468
400-140267-9	TB-ROX-07072017-8011-B	Total/NA	Water	8011	360468
MB 400-360468/1-A	Method Blank	Total/NA	Water	8011	360468
400-140267-2 MS	MW14-ROX-070717	Total/NA	Water	8011	360468
400-140267-2 MSD	MW14-ROX-070717	Total/NA	Water	8011	360468
400-140267-5 MS	MW-26-ROX-07072017	Total/NA	Water	8011	360468
400-140267-5 MSD	MW-26-ROX-07072017	Total/NA	Water	8011	360468

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

Lab Sample ID: MB 400-360276/5
Matrix: Water
Analysis Batch: 360276

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			07/13/17 10:13	1
Acrolein	ND		20	10	ug/L			07/13/17 10:13	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 10:13	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 10:13	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 10:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 10:13	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 10:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 10:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 10:13	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 10:13	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 10:13	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 10:13	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 10:13	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 10:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 10:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 10:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 10:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 10:13	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 10:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 10:13	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 10:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 10:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 10:13	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 10:13	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 10:13	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 10:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 10:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 10:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 10:13	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 10:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 10:13	1

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

Lab Sample ID: MB 400-360276/5
Matrix: Water
Analysis Batch: 360276

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			07/13/17 10:13	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 10:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 10:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 10:13	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 10:13	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 10:13	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 10:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 10:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 10:13	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 10:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/13/17 10:13*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*07/13/17 10:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/13/17 10:13*	*1*

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	187		ug/L		94	43 - 160
Acrolein	500	522		ug/L		104	38 - 160
Acrylonitrile	500	517		ug/L		103	64 - 142
Benzene	50.0	53.0		ug/L		106	70 - 130
Bromobenzene	50.0	50.6		ug/L		101	70 - 132
Bromochloromethane	50.0	62.5		ug/L		125	70 - 130
Bromodichloromethane	50.0	53.9		ug/L		108	67 - 133
Bromoform	50.0	47.1		ug/L		94	57 - 140
Bromomethane	50.0	54.8		ug/L		110	10 - 160
2-Butanone (MEK)	200	207		ug/L		104	61 - 145
Carbon disulfide	50.0	50.3		ug/L		101	61 - 137
Carbon tetrachloride	50.0	54.8		ug/L		110	61 - 137
Chlorobenzene	50.0	51.1		ug/L		102	70 - 130
Dibromochloromethane	50.0	51.7		ug/L		103	67 - 135
Chloroethane	50.0	53.2		ug/L		106	55 - 141

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

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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	25.4		ug/L		51	10 - 160
Chloroform	50.0	54.1		ug/L		108	69 - 130
1-Chlorohexane	50.0	48.7		ug/L		97	69 - 130
Chloromethane	50.0	55.7		ug/L		111	58 - 137
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	68 - 130
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	69 - 132
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	67 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	54.3		ug/L		109	41 - 146
1,1-Dichloroethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	52.2		ug/L		104	69 - 130
1,1-Dichloroethene	50.0	53.5		ug/L		107	63 - 134
1,2-Dichloropropane	50.0	53.2		ug/L		106	70 - 130
1,3-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
2,2-Dichloropropane	50.0	55.4		ug/L		111	52 - 135
1,1-Dichloropropene	50.0	52.8		ug/L		106	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Ethyl methacrylate	50.0	50.4		ug/L		101	68 - 130
Hexachlorobutadiene	50.0	50.6		ug/L		101	53 - 140
2-Hexanone	200	193		ug/L		97	65 - 137
Isopropylbenzene	50.0	51.6		ug/L		103	70 - 130
Methylene bromide	50.0	55.3		ug/L		111	70 - 130
Methylene Chloride	50.0	52.2		ug/L		104	66 - 135
4-Methyl-2-pentanone (MIBK)	200	195		ug/L		98	69 - 138
Methyl tert-butyl ether	50.0	51.3		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
Naphthalene	50.0	49.0		ug/L		98	47 - 149
n-Butylbenzene	50.0	51.0		ug/L		102	67 - 130
N-Propylbenzene	50.0	50.9		ug/L		102	70 - 130
o-Chlorotoluene	50.0	50.8		ug/L		102	70 - 130
o-Xylene	50.0	51.2		ug/L		102	70 - 130
p-Chlorotoluene	50.0	50.7		ug/L		101	70 - 130
p-Isopropyltoluene	50.0	52.1		ug/L		104	65 - 130
sec-Butylbenzene	50.0	51.6		ug/L		103	66 - 130
Styrene	50.0	52.4		ug/L		105	70 - 130
tert-Butylbenzene	50.0	51.4		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.2		ug/L		100	65 - 130
Toluene	50.0	50.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	63 - 130
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	60 - 138
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	68 - 130
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	50.0	53.5		ug/L		107	70 - 130

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

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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	52.2		ug/L		104	65 - 138
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	69 - 130
Vinyl acetate	100	118		ug/L		118	26 - 160
Vinyl chloride	50.0	52.6		ug/L		105	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140267-2 MS
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	169		ug/L		84	43 - 160
Acrolein	ND		500	517		ug/L		103	38 - 160
Acrylonitrile	ND		500	514		ug/L		103	62 - 149
Benzene	ND		50.0	46.8		ug/L		94	56 - 142
Bromobenzene	ND		50.0	42.5		ug/L		85	59 - 136
Bromochloromethane	ND		50.0	59.6		ug/L		119	64 - 140
Bromodichloromethane	ND		50.0	49.9		ug/L		100	59 - 143
Bromoform	ND		50.0	43.3		ug/L		87	50 - 140
Bromomethane	ND		50.0	50.4		ug/L		101	10 - 160
2-Butanone (MEK)	ND		200	203		ug/L		101	55 - 150
Carbon disulfide	ND		50.0	42.8		ug/L		86	48 - 152
Carbon tetrachloride	ND		50.0	45.6		ug/L		91	55 - 145
Chlorobenzene	ND		50.0	42.7		ug/L		85	64 - 130
Dibromochloromethane	ND		50.0	48.1		ug/L		96	56 - 143
Chloroethane	ND		50.0	47.9		ug/L		96	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	49.1		ug/L		98	60 - 141
1-Chlorohexane	ND		50.0	35.3		ug/L		71	56 - 136
Chloromethane	ND		50.0	50.7		ug/L		101	49 - 148
cis-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	59 - 143
cis-1,3-Dichloropropene	ND		50.0	49.0		ug/L		98	57 - 140
1,2-Dichlorobenzene	ND		50.0	42.0		ug/L		84	52 - 137
1,3-Dichlorobenzene	ND		50.0	40.4		ug/L		81	54 - 135
1,4-Dichlorobenzene	ND		50.0	39.8		ug/L		80	53 - 135
Dichlorodifluoromethane	ND		50.0	48.4		ug/L		97	16 - 160
1,1-Dichloroethane	ND		50.0	48.6		ug/L		97	61 - 144
1,2-Dichloroethane	ND		50.0	50.4		ug/L		101	60 - 141
1,1-Dichloroethene	ND		50.0	46.4		ug/L		93	54 - 147
1,2-Dichloropropane	ND		50.0	48.8		ug/L		98	66 - 137
1,3-Dichloropropane	ND		50.0	47.5		ug/L		95	66 - 133

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

Lab Sample ID: 400-140267-2 MS
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW14-ROX-070717
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	46.6		ug/L		93	42 - 144
1,1-Dichloropropene	ND		50.0	44.7		ug/L		89	65 - 136
Ethylbenzene	ND		50.0	40.3		ug/L		81	58 - 131
Ethyl methacrylate	ND		50.0	48.0		ug/L		96	64 - 130
Hexachlorobutadiene	ND		50.0	30.5		ug/L		61	31 - 149
2-Hexanone	ND		200	182		ug/L		91	65 - 140
Isopropylbenzene	ND		50.0	38.7		ug/L		77	56 - 133
Methylene bromide	ND		50.0	52.9		ug/L		106	63 - 138
Methylene Chloride	ND		50.0	49.1		ug/L		98	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	190		ug/L		95	63 - 146
Methyl tert-butyl ether	ND		50.0	50.3		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	39.7		ug/L		79	57 - 130
Naphthalene	ND		50.0	43.9		ug/L		88	25 - 160
n-Butylbenzene	ND		50.0	32.1		ug/L		64	41 - 142
N-Propylbenzene	ND		50.0	35.6		ug/L		71	51 - 138
o-Chlorotoluene	ND		50.0	38.3		ug/L		77	53 - 134
o-Xylene	ND		50.0	41.6		ug/L		83	61 - 130
p-Chlorotoluene	ND		50.0	38.5		ug/L		77	54 - 133
p-Isopropyltoluene	ND		50.0	34.6		ug/L		69	48 - 139
sec-Butylbenzene	ND		50.0	34.2		ug/L		68	50 - 138
Styrene	ND		50.0	43.4		ug/L		87	58 - 131
tert-Butylbenzene	ND		50.0	37.9		ug/L		76	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	45.8		ug/L		92	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	46.3		ug/L		93	66 - 135
Tetrachloroethene	ND		50.0	36.6		ug/L		73	52 - 133
Toluene	ND		50.0	42.0		ug/L		84	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.9		ug/L		90	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	41.0		ug/L		82	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	39.3		ug/L		79	39 - 148
1,1,1-Trichloroethane	ND		50.0	45.6		ug/L		91	57 - 142
1,1,2-Trichloroethane	ND		50.0	47.8		ug/L		96	66 - 131
Trichloroethene	ND		50.0	45.3		ug/L		91	64 - 136
Trichlorofluoromethane	ND		50.0	46.0		ug/L		92	54 - 156
1,2,3-Trichloropropane	ND		50.0	46.4		ug/L		93	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	38.1		ug/L		76	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	37.3		ug/L		75	52 - 135
Vinyl acetate	ND		100	116		ug/L		116	26 - 160
Vinyl chloride	ND		50.0	46.8		ug/L		94	46 - 152
Xylenes, Total	ND		100	81.3		ug/L		81	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 400-140267-2 MSD
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW14-ROX-070717
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	184		ug/L		92	43 - 160	9	30
Acrolein	ND		500	526		ug/L		105	38 - 160	2	31
Acrylonitrile	ND		500	516		ug/L		103	62 - 149	0	30
Benzene	ND		50.0	45.1		ug/L		90	56 - 142	4	30
Bromobenzene	ND		50.0	40.7		ug/L		81	59 - 136	4	30
Bromochloromethane	ND		50.0	57.6		ug/L		115	64 - 140	4	30
Bromodichloromethane	ND		50.0	47.8		ug/L		96	59 - 143	4	30
Bromoform	ND		50.0	43.1		ug/L		86	50 - 140	0	30
Bromomethane	ND		50.0	47.1		ug/L		94	10 - 160	7	50
2-Butanone (MEK)	ND		200	206		ug/L		103	55 - 150	1	30
Carbon disulfide	ND		50.0	41.3		ug/L		83	48 - 152	4	30
Carbon tetrachloride	ND		50.0	45.2		ug/L		90	55 - 145	1	30
Chlorobenzene	ND		50.0	40.5		ug/L		81	64 - 130	5	30
Dibromochloromethane	ND		50.0	46.4		ug/L		93	56 - 143	3	30
Chloroethane	ND		50.0	47.4		ug/L		95	50 - 151	1	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.7		ug/L		95	60 - 141	3	30
1-Chlorohexane	ND		50.0	34.7		ug/L		69	56 - 136	2	30
Chloromethane	ND		50.0	49.5		ug/L		99	49 - 148	2	31
cis-1,2-Dichloroethene	ND		50.0	47.2		ug/L		94	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	46.5		ug/L		93	57 - 140	5	30
1,2-Dichlorobenzene	ND		50.0	40.0		ug/L		80	52 - 137	5	30
1,3-Dichlorobenzene	ND		50.0	38.6		ug/L		77	54 - 135	5	30
1,4-Dichlorobenzene	ND		50.0	37.9		ug/L		76	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	48.0		ug/L		96	16 - 160	1	31
1,1-Dichloroethane	ND		50.0	47.5		ug/L		95	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	48.3		ug/L		97	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	46.1		ug/L		92	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	47.1		ug/L		94	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	46.2		ug/L		92	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	47.5		ug/L		95	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	43.6		ug/L		87	65 - 136	2	30
Ethylbenzene	ND		50.0	38.3		ug/L		77	58 - 131	5	30
Ethyl methacrylate	ND		50.0	47.2		ug/L		94	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	30.4		ug/L		61	31 - 149	0	36
2-Hexanone	ND		200	190		ug/L		95	65 - 140	4	30
Isopropylbenzene	ND		50.0	37.1		ug/L		74	56 - 133	4	30
Methylene bromide	ND		50.0	51.1		ug/L		102	63 - 138	3	30
Methylene Chloride	ND		50.0	47.3		ug/L		95	60 - 146	4	32
4-Methyl-2-pentanone (MIBK)	ND		200	191		ug/L		96	63 - 146	0	30
Methyl tert-butyl ether	ND		50.0	49.8		ug/L		100	59 - 137	1	30
m-Xylene & p-Xylene	ND		50.0	37.6		ug/L		75	57 - 130	5	30
Naphthalene	ND		50.0	42.9		ug/L		86	25 - 160	2	30
n-Butylbenzene	ND		50.0	32.5		ug/L		65	41 - 142	1	31
N-Propylbenzene	ND		50.0	34.9		ug/L		70	51 - 138	2	30
o-Chlorotoluene	ND		50.0	37.3		ug/L		75	53 - 134	3	30
o-Xylene	ND		50.0	39.2		ug/L		78	61 - 130	6	30
p-Chlorotoluene	ND		50.0	36.9		ug/L		74	54 - 133	4	30

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

Lab Sample ID: 400-140267-2 MSD
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW14-ROX-070717
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	34.2		ug/L		68	48 - 139	1	30
sec-Butylbenzene	ND		50.0	34.4		ug/L		69	50 - 138	1	30
Styrene	ND		50.0	40.8		ug/L		82	58 - 131	6	30
tert-Butylbenzene	ND		50.0	37.0		ug/L		74	54 - 146	2	30
1,1,1,2-Tetrachloroethane	ND		50.0	43.8		ug/L		88	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	46.9		ug/L		94	66 - 135	1	30
Tetrachloroethene	ND		50.0	35.6		ug/L		71	52 - 133	3	30
Toluene	ND		50.0	40.1		ug/L		80	65 - 130	5	30
trans-1,2-Dichloroethene	ND		50.0	45.3		ug/L		91	61 - 143	2	30
trans-1,3-Dichloropropene	ND		50.0	43.5		ug/L		87	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	38.8		ug/L		78	43 - 145	6	30
1,2,4-Trichlorobenzene	ND		50.0	37.4		ug/L		75	39 - 148	5	30
1,1,1-Trichloroethane	ND		50.0	44.8		ug/L		90	57 - 142	2	30
1,1,2-Trichloroethane	ND		50.0	46.3		ug/L		93	66 - 131	3	30
Trichloroethene	ND		50.0	43.5		ug/L		87	64 - 136	4	30
Trichlorofluoromethane	ND		50.0	46.6		ug/L		93	54 - 156	1	30
1,2,3-Trichloropropane	ND		50.0	47.3		ug/L		95	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	36.5		ug/L		73	50 - 139	4	30
1,3,5-Trimethylbenzene	ND		50.0	36.1		ug/L		72	52 - 135	3	30
Vinyl acetate	ND		100	113		ug/L		113	26 - 160	2	33
Vinyl chloride	ND		50.0	45.7		ug/L		91	46 - 152	2	30
Xylenes, Total	ND		100	76.9		ug/L		77	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-140267-5 MS
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	189		ug/L		94	43 - 160
Acrolein	ND		500	550		ug/L		110	38 - 160
Acrylonitrile	ND		500	540		ug/L		108	62 - 149
Benzene	ND		50.0	43.7		ug/L		87	56 - 142
Bromobenzene	ND		50.0	39.8		ug/L		80	59 - 136
Bromochloromethane	ND		50.0	56.8		ug/L		114	64 - 140
Bromodichloromethane	ND		50.0	47.1		ug/L		94	59 - 143
Bromoform	ND		50.0	43.6		ug/L		87	50 - 140
Bromomethane	ND		50.0	46.6		ug/L		93	10 - 160
2-Butanone (MEK)	ND		200	213		ug/L		107	55 - 150
Carbon disulfide	ND		50.0	39.9		ug/L		80	48 - 152
Carbon tetrachloride	ND		50.0	43.0		ug/L		86	55 - 145
Chlorobenzene	ND		50.0	39.4		ug/L		79	64 - 130
Dibromochloromethane	ND		50.0	46.6		ug/L		93	56 - 143
Chloroethane	ND		50.0	46.9		ug/L		94	50 - 151

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

Lab Sample ID: 400-140267-5 MS
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	46.7		ug/L		93	60 - 141
1-Chlorohexane	ND		50.0	31.2		ug/L		62	56 - 136
Chloromethane	ND		50.0	47.7		ug/L		95	49 - 148
cis-1,2-Dichloroethene	ND		50.0	47.0		ug/L		94	59 - 143
cis-1,3-Dichloropropene	ND		50.0	46.4		ug/L		93	57 - 140
1,2-Dichlorobenzene	ND		50.0	39.1		ug/L		78	52 - 137
1,3-Dichlorobenzene	ND		50.0	36.9		ug/L		74	54 - 135
1,4-Dichlorobenzene	ND		50.0	36.5		ug/L		73	53 - 135
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	61 - 144
1,2-Dichloroethane	ND		50.0	48.6		ug/L		97	60 - 141
1,1-Dichloroethene	ND		50.0	43.9		ug/L		88	54 - 147
1,2-Dichloropropane	ND		50.0	46.6		ug/L		93	66 - 137
1,3-Dichloropropane	ND		50.0	46.7		ug/L		93	66 - 133
2,2-Dichloropropane	ND		50.0	46.2		ug/L		92	42 - 144
1,1-Dichloropropene	ND		50.0	41.5		ug/L		83	65 - 136
Ethylbenzene	ND		50.0	36.2		ug/L		72	58 - 131
Ethyl methacrylate	ND		50.0	48.7		ug/L		97	64 - 130
Hexachlorobutadiene	ND		50.0	24.3		ug/L		49	31 - 149
2-Hexanone	ND		200	197		ug/L		99	65 - 140
Isopropylbenzene	ND		50.0	33.8		ug/L		68	56 - 133
Methylene bromide	ND		50.0	51.6		ug/L		103	63 - 138
Methylene Chloride	ND		50.0	47.0		ug/L		94	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	201		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	50.9		ug/L		102	59 - 137
m-Xylene & p-Xylene	ND		50.0	35.6		ug/L		71	57 - 130
Naphthalene	ND		50.0	44.3		ug/L		89	25 - 160
n-Butylbenzene	ND		50.0	26.9		ug/L		54	41 - 142
N-Propylbenzene	ND		50.0	31.2		ug/L		62	51 - 138
o-Chlorotoluene	ND		50.0	34.4		ug/L		69	53 - 134
o-Xylene	ND		50.0	37.7		ug/L		75	61 - 130
p-Chlorotoluene	ND		50.0	34.5		ug/L		69	54 - 133
p-Isopropyltoluene	ND		50.0	29.7		ug/L		59	48 - 139
sec-Butylbenzene	ND		50.0	29.4		ug/L		59	50 - 138
Styrene	ND		50.0	39.7		ug/L		79	58 - 131
tert-Butylbenzene	ND		50.0	33.2		ug/L		66	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	43.0		ug/L		86	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135
Tetrachloroethene	ND		50.0	33.1		ug/L		66	52 - 133
Toluene	ND		50.0	38.7		ug/L		77	65 - 130
trans-1,2-Dichloroethene	ND		50.0	43.9		ug/L		88	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.3		ug/L		89	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	38.7		ug/L		77	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	36.3		ug/L		73	39 - 148
1,1,1-Trichloroethane	ND		50.0	43.1		ug/L		86	57 - 142
1,1,2-Trichloroethane	ND		50.0	47.3		ug/L		95	66 - 131
Trichloroethene	ND		50.0	41.1		ug/L		82	64 - 136

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

Lab Sample ID: 400-140267-5 MS
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		50.0	44.3		ug/L		89	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.1		ug/L		96	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	33.9		ug/L		68	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	32.9		ug/L		66	52 - 135
Vinyl acetate	ND		100	120		ug/L		120	26 - 160
Vinyl chloride	ND		50.0	44.7		ug/L		89	46 - 152
Xylenes, Total	ND		100	73.3		ug/L		73	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW-26-ROX-07072017
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	196		ug/L		98	43 - 160	4	30
Acrolein	ND		500	577		ug/L		115	38 - 160	5	31
Acrylonitrile	ND		500	560		ug/L		112	62 - 149	4	30
Benzene	ND		50.0	47.2		ug/L		94	56 - 142	8	30
Bromobenzene	ND		50.0	42.0		ug/L		84	59 - 136	5	30
Bromochloromethane	ND		50.0	59.0		ug/L		118	64 - 140	4	30
Bromodichloromethane	ND		50.0	48.8		ug/L		98	59 - 143	4	30
Bromoform	ND		50.0	45.6		ug/L		91	50 - 140	4	30
Bromomethane	ND		50.0	50.2		ug/L		100	10 - 160	7	50
2-Butanone (MEK)	ND		200	226		ug/L		113	55 - 150	6	30
Carbon disulfide	ND		50.0	44.4		ug/L		89	48 - 152	11	30
Carbon tetrachloride	ND		50.0	47.6		ug/L		95	55 - 145	10	30
Chlorobenzene	ND		50.0	41.7		ug/L		83	64 - 130	6	30
Dibromochloromethane	ND		50.0	48.5		ug/L		97	56 - 143	4	30
Chloroethane	ND		50.0	49.6		ug/L		99	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	48.9		ug/L		98	60 - 141	5	30
1-Chlorohexane	ND		50.0	35.9		ug/L		72	56 - 136	14	30
Chloromethane	ND		50.0	50.8		ug/L		102	49 - 148	6	31
cis-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	59 - 143	5	30
cis-1,3-Dichloropropene	ND		50.0	48.3		ug/L		97	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	40.8		ug/L		82	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	39.1		ug/L		78	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	38.5		ug/L		77	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	50.3		ug/L		101	16 - 160	7	31
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144	6	30
1,2-Dichloroethane	ND		50.0	49.5		ug/L		99	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	48.4		ug/L		97	54 - 147	10	30
1,2-Dichloropropane	ND		50.0	48.5		ug/L		97	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	48.4		ug/L		97	66 - 133	3	30

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

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 360276

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	ND		50.0	50.0		ug/L		100	42 - 144	8	31
1,1-Dichloropropene	ND		50.0	45.8		ug/L		92	65 - 136	10	30
Ethylbenzene	ND		50.0	39.7		ug/L		79	58 - 131	9	30
Ethyl methacrylate	ND		50.0	50.9		ug/L		102	64 - 130	4	30
Hexachlorobutadiene	ND		50.0	34.0		ug/L		68	31 - 149	33	36
2-Hexanone	ND		200	210		ug/L		105	65 - 140	6	30
Isopropylbenzene	ND		50.0	38.1		ug/L		76	56 - 133	12	30
Methylene bromide	ND		50.0	53.4		ug/L		107	63 - 138	3	30
Methylene Chloride	ND		50.0	48.6		ug/L		97	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	211		ug/L		106	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	52.6		ug/L		105	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	38.8		ug/L		78	57 - 130	9	30
Naphthalene	ND		50.0	46.2		ug/L		92	25 - 160	4	30
n-Butylbenzene	ND		50.0	33.7		ug/L		67	41 - 142	22	31
N-Propylbenzene	ND		50.0	35.7		ug/L		71	51 - 138	13	30
o-Chlorotoluene	ND		50.0	38.0		ug/L		76	53 - 134	10	30
o-Xylene	ND		50.0	40.5		ug/L		81	61 - 130	7	30
p-Chlorotoluene	ND		50.0	37.5		ug/L		75	54 - 133	8	30
p-Isopropyltoluene	ND		50.0	35.4		ug/L		71	48 - 139	17	30
sec-Butylbenzene	ND		50.0	35.4		ug/L		71	50 - 138	18	30
Styrene	ND		50.0	41.8		ug/L		84	58 - 131	5	30
tert-Butylbenzene	ND		50.0	38.1		ug/L		76	54 - 146	14	30
1,1,1,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	59 - 137	5	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	66 - 135	4	30
Tetrachloroethene	ND		50.0	37.3		ug/L		75	52 - 133	12	30
Toluene	ND		50.0	42.1		ug/L		84	65 - 130	8	30
trans-1,2-Dichloroethene	ND		50.0	47.2		ug/L		94	61 - 143	7	30
trans-1,3-Dichloropropene	ND		50.0	46.1		ug/L		92	53 - 133	4	30
1,2,3-Trichlorobenzene	ND		50.0	40.9		ug/L		82	43 - 145	6	30
1,2,4-Trichlorobenzene	ND		50.0	38.8		ug/L		78	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	47.3		ug/L		95	57 - 142	9	30
1,1,2-Trichloroethane	ND		50.0	49.2		ug/L		98	66 - 131	4	30
Trichloroethene	ND		50.0	45.3		ug/L		91	64 - 136	10	30
Trichlorofluoromethane	ND		50.0	47.9		ug/L		96	54 - 156	8	30
1,2,3-Trichloropropane	ND		50.0	50.2		ug/L		100	65 - 133	4	30
1,2,4-Trimethylbenzene	ND		50.0	37.6		ug/L		75	50 - 139	10	30
1,3,5-Trimethylbenzene	ND		50.0	37.1		ug/L		74	52 - 135	12	30
Vinyl acetate	ND		100	120		ug/L		120	26 - 160	0	33
Vinyl chloride	ND		50.0	48.0		ug/L		96	46 - 152	7	30
Xylenes, Total	ND		100	79.3		ug/L		79	59 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
Acrolein	ND		20	10	ug/L			07/18/17 12:14	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 12:14	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 12:14	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 12:14	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 12:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 12:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 12:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 12:14	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 12:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 12:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 12:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 12:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 12:14	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 12:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 12:14	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 12:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 12:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 12:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 12:14	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 12:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 12:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 12:14	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 12:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 12:14	1

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 12:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 12:14	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 12:14	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 12:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 12:14	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 12:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 12:14*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 12:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 12:14*	*1*

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	184		ug/L		92	43 - 160
Acrolein	500	510		ug/L		102	38 - 160
Acrylonitrile	500	508		ug/L		102	64 - 142
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromobenzene	50.0	49.1		ug/L		98	70 - 132
Bromochloromethane	50.0	56.6		ug/L		113	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 133
Bromoform	50.0	46.6		ug/L		93	57 - 140
Bromomethane	50.0	52.0		ug/L		104	10 - 160
2-Butanone (MEK)	200	202		ug/L		101	61 - 145
Carbon disulfide	50.0	44.3		ug/L		89	61 - 137
Carbon tetrachloride	50.0	48.6		ug/L		97	61 - 137
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	50.0	49.3		ug/L		99	67 - 135
Chloroethane	50.0	48.8		ug/L		98	55 - 141

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	27.1		ug/L		54	10 - 160
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	45.7		ug/L		91	69 - 130
Chloromethane	50.0	50.5		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	67 - 130
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	47.4		ug/L		95	41 - 146
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	63 - 134
1,2-Dichloropropane	50.0	48.0		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	48.5		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	50.8		ug/L		102	52 - 135
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Ethyl methacrylate	50.0	49.5		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	48.4		ug/L		97	53 - 140
2-Hexanone	200	201		ug/L		100	65 - 137
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
Methylene bromide	50.0	51.1		ug/L		102	70 - 130
Methylene Chloride	50.0	48.1		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	69 - 138
Methyl tert-butyl ether	50.0	48.5		ug/L		97	66 - 130
m-Xylene & p-Xylene	50.0	47.9		ug/L		96	70 - 130
Naphthalene	50.0	49.6		ug/L		99	47 - 149
n-Butylbenzene	50.0	48.7		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.7		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	48.2		ug/L		96	70 - 130
p-Chlorotoluene	50.0	48.6		ug/L		97	70 - 130
p-Isopropyltoluene	50.0	49.2		ug/L		98	65 - 130
sec-Butylbenzene	50.0	48.4		ug/L		97	66 - 130
Styrene	50.0	49.0		ug/L		98	70 - 130
tert-Butylbenzene	50.0	48.2		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.6		ug/L		101	65 - 130
Toluene	50.0	46.7		ug/L		93	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	60 - 138
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 130

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	47.7		ug/L		95	65 - 138
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	48.0		ug/L		96	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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	199		ug/L		99	43 - 160
Acrolein	ND		500	562		ug/L		112	38 - 160
Acrylonitrile	ND		500	560		ug/L		112	62 - 149
Benzene	ND		50.0	45.9		ug/L		92	56 - 142
Bromobenzene	ND		50.0	47.6		ug/L		95	59 - 136
Bromochloromethane	ND		50.0	58.4		ug/L		117	64 - 140
Bromodichloromethane	ND		50.0	48.2		ug/L		96	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	34.4		ug/L		69	10 - 160
2-Butanone (MEK)	ND		200	227		ug/L		114	55 - 150
Carbon disulfide	ND		50.0	41.3		ug/L		83	48 - 152
Carbon tetrachloride	ND		50.0	44.8		ug/L		90	55 - 145
Chlorobenzene	ND		50.0	45.7		ug/L		91	64 - 130
Dibromochloromethane	ND		50.0	50.3		ug/L		101	56 - 143
Chloroethane	ND		50.0	39.8		ug/L		80	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.6		ug/L		97	60 - 141
1-Chlorohexane	ND		50.0	40.5		ug/L		81	56 - 136
Chloromethane	ND		50.0	45.0		ug/L		90	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.7		ug/L		93	52 - 137
1,3-Dichlorobenzene	ND		50.0	45.5		ug/L		91	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.4		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	44.6		ug/L		89	16 - 160
1,1-Dichloroethane	ND		50.0	47.8		ug/L		96	61 - 144
1,2-Dichloroethane	ND		50.0	50.2		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	45.5		ug/L		91	54 - 147
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	51.1		ug/L		102	66 - 133

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

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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	47.9		ug/L		96	42 - 144
1,1-Dichloropropene	ND		50.0	45.2		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	44.4		ug/L		89	58 - 131
Ethyl methacrylate	ND		50.0	52.2		ug/L		104	64 - 130
Hexachlorobutadiene	ND		50.0	39.9		ug/L		80	31 - 149
2-Hexanone	ND		200	227		ug/L		113	65 - 140
Isopropylbenzene	ND		50.0	43.4		ug/L		87	56 - 133
Methylene bromide	ND		50.0	54.0		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	47.9		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	224		ug/L		112	63 - 146
Methyl tert-butyl ether	ND		50.0	50.5		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.8		ug/L		88	57 - 130
Naphthalene	ND		50.0	51.5		ug/L		103	25 - 160
n-Butylbenzene	ND		50.0	41.1		ug/L		82	41 - 142
N-Propylbenzene	ND		50.0	42.9		ug/L		86	51 - 138
o-Chlorotoluene	ND		50.0	44.8		ug/L		90	53 - 134
o-Xylene	ND		50.0	45.1		ug/L		90	61 - 130
p-Chlorotoluene	ND		50.0	44.3		ug/L		89	54 - 133
p-Isopropyltoluene	ND		50.0	42.6		ug/L		85	48 - 139
sec-Butylbenzene	ND		50.0	42.3		ug/L		85	50 - 138
Styrene	ND		50.0	46.1		ug/L		92	58 - 131
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.1		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	41.5		ug/L		83	52 - 133
Toluene	ND		50.0	45.0		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.6		ug/L		93	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.9		ug/L		96	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.5		ug/L		93	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	44.9		ug/L		90	39 - 148
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	57 - 142
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	66 - 131
Trichloroethene	ND		50.0	45.4		ug/L		91	64 - 136
Trichlorofluoromethane	ND		50.0	45.4		ug/L		91	54 - 156
1,2,3-Trichloropropane	ND		50.0	55.0		ug/L		110	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	44.0		ug/L		88	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	43.4		ug/L		87	52 - 135
Vinyl acetate	ND		100	117		ug/L		117	26 - 160
Vinyl chloride	ND		50.0	45.2		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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	166		ug/L		83	43 - 160	18	30
Acrolein	ND		500	518		ug/L		104	38 - 160	8	31
Acrylonitrile	ND		500	501		ug/L		100	62 - 149	11	30
Benzene	ND		50.0	45.8		ug/L		92	56 - 142	0	30
Bromobenzene	ND		50.0	45.3		ug/L		91	59 - 136	5	30
Bromochloromethane	ND		50.0	55.3		ug/L		111	64 - 140	5	30
Bromodichloromethane	ND		50.0	46.5		ug/L		93	59 - 143	3	30
Bromoform	ND		50.0	43.5		ug/L		87	50 - 140	8	30
Bromomethane	ND		50.0	40.3		ug/L		81	10 - 160	16	50
2-Butanone (MEK)	ND		200	199		ug/L		99	55 - 150	13	30
Carbon disulfide	ND		50.0	42.0		ug/L		84	48 - 152	2	30
Carbon tetrachloride	ND		50.0	46.0		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	44.7		ug/L		89	64 - 130	2	30
Dibromochloromethane	ND		50.0	47.3		ug/L		95	56 - 143	6	30
Chloroethane	ND		50.0	41.0		ug/L		82	50 - 151	3	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.5		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	40.8		ug/L		82	56 - 136	1	30
Chloromethane	ND		50.0	47.1		ug/L		94	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	46.0		ug/L		92	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	44.9		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	44.6		ug/L		89	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	43.7		ug/L		87	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	47.4		ug/L		95	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	46.3		ug/L		93	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	46.8		ug/L		94	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	47.6		ug/L		95	66 - 133	7	30
2,2-Dichloropropane	ND		50.0	48.7		ug/L		97	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	45.6		ug/L		91	65 - 136	1	30
Ethylbenzene	ND		50.0	43.9		ug/L		88	58 - 131	1	30
Ethyl methacrylate	ND		50.0	47.2		ug/L		94	64 - 130	10	30
Hexachlorobutadiene	ND		50.0	42.1		ug/L		84	31 - 149	5	36
2-Hexanone	ND		200	192		ug/L		96	65 - 140	17	30
Isopropylbenzene	ND		50.0	43.9		ug/L		88	56 - 133	1	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	46.7		ug/L		93	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	192		ug/L		96	63 - 146	15	30
Methyl tert-butyl ether	ND		50.0	47.6		ug/L		95	59 - 137	6	30
m-Xylene & p-Xylene	ND		50.0	43.6		ug/L		87	57 - 130	0	30
Naphthalene	ND		50.0	46.8		ug/L		94	25 - 160	10	30
n-Butylbenzene	ND		50.0	42.8		ug/L		86	41 - 142	4	31
N-Propylbenzene	ND		50.0	43.1		ug/L		86	51 - 138	0	30
o-Chlorotoluene	ND		50.0	44.1		ug/L		88	53 - 134	2	30
o-Xylene	ND		50.0	44.2		ug/L		88	61 - 130	2	30
p-Chlorotoluene	ND		50.0	43.8		ug/L		88	54 - 133	1	30

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

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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	43.5		ug/L		87	48 - 139	2	30
sec-Butylbenzene	ND		50.0	43.1		ug/L		86	50 - 138	2	30
Styrene	ND		50.0	45.0		ug/L		90	58 - 131	2	30
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146	0	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135	13	30
Tetrachloroethene	ND		50.0	41.9		ug/L		84	52 - 133	1	30
Toluene	ND		50.0	44.2		ug/L		88	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	61 - 143	0	30
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	44.2		ug/L		88	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	43.4		ug/L		87	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	48.0		ug/L		96	66 - 131	8	30
Trichloroethene	ND		50.0	45.5		ug/L		91	64 - 136	0	30
Trichlorofluoromethane	ND		50.0	47.8		ug/L		96	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	48.2		ug/L		96	65 - 133	13	30
1,2,4-Trimethylbenzene	ND		50.0	43.4		ug/L		87	50 - 139	1	30
1,3,5-Trimethylbenzene	ND		50.0	43.6		ug/L		87	52 - 135	1	30
Vinyl acetate	ND		100	114		ug/L		114	26 - 160	3	33
Vinyl chloride	ND		50.0	47.0		ug/L		94	46 - 152	4	30
Xylenes, Total	ND		100	87.9		ug/L		88	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-359871/1-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/10/17 11:14	07/12/17 12:06	1
Benzenethiol	ND		10	1.7	ug/L		07/10/17 11:14	07/12/17 12:06	1
Benzoic acid	ND		30	7.3	ug/L		07/10/17 11:14	07/12/17 12:06	1
Benzyl alcohol	ND		10	2.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/10/17 11:14	07/12/17 12:06	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/10/17 11:14	07/12/17 12:06	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/10/17 11:14	07/12/17 12:06	1
Bis(2-ethylhexyl) phthalate	9.29	J	10	2.3	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/10/17 11:14	07/12/17 12:06	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Chloroaniline	ND		10	3.4	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/10/17 11:14	07/12/17 12:06	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/10/17 11:14	07/12/17 12:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-359871/1-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Dibenzofuran	ND		10	0.52	ug/L		07/10/17 11:14	07/12/17 12:06	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Diethyl phthalate	ND		10	0.70	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/10/17 11:14	07/12/17 12:06	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/10/17 11:14	07/12/17 12:06	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/10/17 11:14	07/12/17 12:06	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/10/17 11:14	07/12/17 12:06	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/10/17 11:14	07/12/17 12:06	1
1,4-Dioxane	ND		10	1.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/10/17 11:14	07/12/17 12:06	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/10/17 11:14	07/12/17 12:06	1
Hexachloroethane	ND		10	4.2	ug/L		07/10/17 11:14	07/12/17 12:06	1
Indene	ND		10	1.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
Isophorone	ND		10	0.57	ug/L		07/10/17 11:14	07/12/17 12:06	1
2-Methylphenol	ND		10	1.8	ug/L		07/10/17 11:14	07/12/17 12:06	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
2-Nitroaniline	ND		10	2.2	ug/L		07/10/17 11:14	07/12/17 12:06	1
3-Nitroaniline	ND		10	1.8	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Nitroaniline	ND		10	2.5	ug/L		07/10/17 11:14	07/12/17 12:06	1
Nitrobenzene	ND		10	0.55	ug/L		07/10/17 11:14	07/12/17 12:06	1
2-Nitrophenol	ND		10	0.65	ug/L		07/10/17 11:14	07/12/17 12:06	1
4-Nitrophenol	ND		10	2.1	ug/L		07/10/17 11:14	07/12/17 12:06	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/10/17 11:14	07/12/17 12:06	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/10/17 11:14	07/12/17 12:06	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/10/17 11:14	07/12/17 12:06	1
Pentachlorophenol	ND		20	1.8	ug/L		07/10/17 11:14	07/12/17 12:06	1
Phenol	ND		10	2.6	ug/L		07/10/17 11:14	07/12/17 12:06	1
Pyridine	ND		10	3.2	ug/L		07/10/17 11:14	07/12/17 12:06	1
Quinoline	ND		10	6.0	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/10/17 11:14	07/12/17 12:06	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/10/17 11:14	07/12/17 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*07/10/17 11:14*	*07/12/17 12:06*	*1*
2-Fluorophenol	*72*		*10 - 120*	*07/10/17 11:14*	*07/12/17 12:06*	*1*
Nitrobenzene-d5	*79*		*27 - 120*	*07/10/17 11:14*	*07/12/17 12:06*	*1*
Phenol-d5	*79*		*10 - 120*	*07/10/17 11:14*	*07/12/17 12:06*	*1*
Terphenyl-d14	*104*		*53 - 125*	*07/10/17 11:14*	*07/12/17 12:06*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*07/10/17 11:14*	*07/12/17 12:06*	*1*

Lab Sample ID: LCS 400-359871/13-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		1	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol	*30*		*10 - 120*
Nitrobenzene-d5	*63*		*27 - 120*
Phenol-d5	*50*		*10 - 120*
Terphenyl-d14	*78*		*53 - 125*
2,4,6-Tribromophenol	*48*		*15 - 135*

Lab Sample ID: LCS 400-359871/2-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	21.4		ug/L		71	29 - 120
Benzoic acid	125	91.4		ug/L		73	10 - 150
Benzyl alcohol	30.0	27.8		ug/L		93	19 - 125
Bis(2-chloroethoxy)methane	30.0	22.2		ug/L		74	45 - 120
Bis(2-chloroethyl)ether	30.0	22.3		ug/L		74	48 - 120
bis (2-chloroisopropyl) ether	30.0	21.4		ug/L		71	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	35.4		ug/L		118	48 - 150
4-Bromophenyl phenyl ether	30.0	28.1		ug/L		94	55 - 122
Butyl benzyl phthalate	30.0	25.0		ug/L		83	46 - 145
4-Chloroaniline	30.0	21.0		ug/L		70	30 - 120
4-Chloro-3-methylphenol	30.0	24.6		ug/L		82	39 - 140
2-Chloronaphthalene	30.0	26.2		ug/L		87	52 - 120
2-Chlorophenol	30.0	22.0		ug/L		73	34 - 120
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	58 - 124
Dibenz[a,h]acridine	30.0	28.5		ug/L		95	46 - 149
Dibenzofuran	30.0	25.8		ug/L		86	58 - 123
3,3'-Dichlorobenzidine	40.0	38.5		ug/L		96	39 - 135
2,4-Dichlorophenol	30.0	23.9		ug/L		80	39 - 128
Diethyl phthalate	30.0	25.8		ug/L		86	44 - 146
2,4-Dimethylphenol	30.0	24.1		ug/L		80	44 - 120
Dimethyl phthalate	30.0	24.1		ug/L		80	50 - 131
Di-n-butyl phthalate	30.0	25.4		ug/L		85	55 - 131
4,6-Dinitro-ortho-cresol	60.0	56.6		ug/L		94	10 - 150
2,4-Dinitrophenol	60.0	60.4		ug/L		101	10 - 150
2,4-Dinitrotoluene	30.0	27.7		ug/L		92	58 - 140
2,6-Dinitrotoluene	30.0	27.6		ug/L		92	57 - 130
Di-n-octyl phthalate	30.0	25.4		ug/L		85	50 - 150
1,4-Dioxane	30.0	19.1		ug/L		64	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	24.4		ug/L		81	47 - 123
Hexachlorobenzene	30.0	27.8		ug/L		93	52 - 131
Hexachlorocyclopentadiene	30.0	23.1		ug/L		77	10 - 129
Hexachloroethane	30.0	21.4		ug/L		71	41 - 120
Indene	30.0	25.8		ug/L		86	47 - 120
Isophorone	30.0	21.7		ug/L		72	49 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-359871/2-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	30.0	23.2		ug/L		77	39 - 123
3 & 4 Methylphenol	30.0	22.6		ug/L		75	38 - 121
2-Nitroaniline	30.0	30.9		ug/L		103	47 - 150
3-Nitroaniline	30.0	26.7		ug/L		89	34 - 132
4-Nitroaniline	30.0	25.7		ug/L		86	41 - 135
Nitrobenzene	30.0	21.2		ug/L		71	47 - 120
2-Nitrophenol	30.0	23.7		ug/L		79	28 - 136
4-Nitrophenol	60.0	46.5		ug/L		78	10 - 150
N-Nitrosodimethylamine	30.0	3.75	J *	ug/L		13	22 - 148
N-Nitrosodi-n-propylamine	30.0	22.5		ug/L		75	44 - 120
N-Nitrosodiphenylamine	29.8	29.0		ug/L		97	56 - 120
Pentachlorophenol	60.0	54.5		ug/L		91	15 - 141
Phenol	30.0	22.3		ug/L		74	33 - 120
Pyridine	30.0	20.7		ug/L		69	26 - 120
Quinoline	30.0	26.3		ug/L		88	51 - 129
2,4,5-Trichlorophenol	30.0	27.1		ug/L		90	38 - 147
2,4,6-Trichlorophenol	30.0	27.2		ug/L		91	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*34 - 120*
2-Fluorophenol	*60*		*10 - 120*
Nitrobenzene-d5	*67*		*27 - 120*
Phenol-d5	*68*		*10 - 120*
Terphenyl-d14	*87*		*53 - 125*
2,4,6-Tribromophenol	*93*		*15 - 135*

Lab Sample ID: LCSD 400-359871/14-A
Matrix: Water
Analysis Batch: 360149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120	56	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*34 - 120*
2-Fluorophenol	*48*		*10 - 120*
Nitrobenzene-d5	*81*		*27 - 120*
Phenol-d5	*71*		*10 - 120*
Terphenyl-d14	*104*		*53 - 125*
2,4,6-Tribromophenol	*61*		*15 - 135*

Lab Sample ID: 400-140267-2 MS
Matrix: Water
Analysis Batch: 360149

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		28.9	23.6		ug/L		82	10 - 143
Benzoic acid	ND		120	133		ug/L		110	10 - 134

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-2 MS — **Client Sample ID: MW14-ROX-070717**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	ND		28.9	31.7		ug/L		110	10 - 154
Bis(2-chloroethoxy)methane	ND		28.9	23.8		ug/L		82	14 - 147
Bis(2-chloroethyl)ether	ND		28.9	25.6		ug/L		89	28 - 130
bis (2-chloroisopropyl) ether	ND		28.9	23.9		ug/L		83	10 - 141
Bis(2-ethylhexyl) phthalate	ND		28.9	32.2		ug/L		112	43 - 160
4-Bromophenyl phenyl ether	ND		28.9	31.1		ug/L		108	26 - 159
Butyl benzyl phthalate	ND		28.9	27.1		ug/L		94	43 - 151
4-Chloroaniline	ND		28.9	20.7		ug/L		72	10 - 152
4-Chloro-3-methylphenol	ND		28.9	27.0		ug/L		93	17 - 156
2-Chloronaphthalene	ND		28.9	29.0		ug/L		100	10 - 155
2-Chlorophenol	ND		28.9	23.8		ug/L		82	19 - 130
4-Chlorophenyl phenyl ether	ND		28.9	29.4		ug/L		102	25 - 161
Dibenz[a,h]acridine	ND		28.9	29.7		ug/L		103	42 - 147
Dibenzofuran	ND		28.9	29.3		ug/L		102	18 - 157
3,3'-Dichlorobenzidine	ND	F1	38.5	5.18	J	ug/L		13	10 - 172
2,4-Dichlorophenol	ND		28.9	25.8		ug/L		89	16 - 147
Diethyl phthalate	ND		28.9	29.4		ug/L		102	23 - 160
2,4-Dimethylphenol	ND		28.9	26.1		ug/L		90	25 - 146
Dimethyl phthalate	ND		28.9	27.8		ug/L		96	11 - 158
Di-n-butyl phthalate	ND		28.9	28.9		ug/L		100	28 - 162
4,6-Dinitro-ortho-cresol	ND		57.7	73.4		ug/L		127	10 - 168
2,4-Dinitrophenol	ND		57.7	86.4		ug/L		150	10 - 166
2,4-Dinitrotoluene	ND		28.9	32.7		ug/L		113	26 - 158
2,6-Dinitrotoluene	ND		28.9	31.5		ug/L		109	19 - 157
Di-n-octyl phthalate	ND		28.9	27.8		ug/L		96	42 - 150
1,4-Dioxane	ND		28.9	19.4		ug/L		67	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.9	27.3		ug/L		94	19 - 162
Hexachlorobenzene	ND		28.9	30.8		ug/L		107	45 - 145
Hexachlorocyclopentadiene	ND		28.9	18.3	J	ug/L		63	10 - 151
Hexachloroethane	ND		28.9	22.8		ug/L		79	29 - 130
Indene	ND		28.9	28.5		ug/L		99	22 - 130
Isophorone	ND		28.9	23.5		ug/L		81	24 - 144
2-Methylphenol	ND		28.9	25.5		ug/L		88	22 - 130
3 & 4 Methylphenol	ND		28.9	25.1		ug/L		87	31 - 130
2-Nitroaniline	ND		28.9	30.3		ug/L		105	10 - 162
3-Nitroaniline	ND		28.9	27.2		ug/L		94	10 - 163
4-Nitroaniline	ND		28.9	29.7		ug/L		103	10 - 162
Nitrobenzene	ND		28.9	23.1		ug/L		80	34 - 135
2-Nitrophenol	ND		28.9	26.6		ug/L		92	27 - 134
4-Nitrophenol	ND		57.7	55.9		ug/L		97	10 - 175
N-Nitrosodimethylamine	ND	*	28.9	27.1		ug/L		94	10 - 139
N-Nitrosodi-n-propylamine	ND		28.9	24.1		ug/L		84	13 - 147
N-Nitrosodiphenylamine	ND		28.6	30.7		ug/L		107	31 - 150
Pentachlorophenol	ND		57.7	67.6		ug/L		117	10 - 180
Phenol	ND		28.9	24.3		ug/L		84	23 - 130
Pyridine	ND		28.9	22.7		ug/L		79	10 - 130
Quinoline	ND	F2	28.9	12.7		ug/L		44	10 - 180

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-2 MS — **Client Sample ID: MW14-ROX-070717**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		28.9	31.0		ug/L		107	43 - 137
2,4,6-Trichlorophenol	ND		28.9	30.8		ug/L		107	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*95*		*34 - 120*
2-Fluorophenol	*60*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*98*		*53 - 125*
2,4,6-Tribromophenol	*110*		*15 - 135*

Lab Sample ID: 400-140267-2 MSD — **Client Sample ID: MW14-ROX-070717**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		28.5	20.2		ug/L		71	10 - 143	15	63
Benzoic acid	ND		119	134		ug/L		112	10 - 134	1	49
Benzyl alcohol	ND		28.5	28.9		ug/L		101	10 - 154	9	37
Bis(2-chloroethoxy)methane	ND		28.5	22.6		ug/L		79	14 - 147	5	70
Bis(2-chloroethyl)ether	ND		28.5	24.2		ug/L		85	28 - 130	6	42
bis (2-chloroisopropyl) ether	ND		28.5	22.0		ug/L		77	10 - 141	8	41
Bis(2-ethylhexyl) phthalate	ND		28.5	30.3		ug/L		106	43 - 160	6	35
4-Bromophenyl phenyl ether	ND		28.5	29.0		ug/L		102	26 - 159	7	30
Butyl benzyl phthalate	ND		28.5	25.9		ug/L		91	43 - 151	4	32
4-Chloroaniline	ND		28.5	18.2		ug/L		64	10 - 152	13	94
4-Chloro-3-methylphenol	ND		28.5	25.6		ug/L		90	17 - 156	5	40
2-Chloronaphthalene	ND		28.5	27.6		ug/L		97	10 - 155	5	29
2-Chlorophenol	ND		28.5	22.0		ug/L		77	19 - 130	8	42
4-Chlorophenyl phenyl ether	ND		28.5	28.2		ug/L		99	25 - 161	4	27
Dibenz[a,h]acridine	ND		28.5	27.9		ug/L		98	42 - 147	6	40
Dibenzofuran	ND		28.5	28.1		ug/L		99	18 - 157	4	29
3,3'-Dichlorobenzidine	ND	F1	38.0	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		28.5	24.2		ug/L		85	16 - 147	6	43
Diethyl phthalate	ND		28.5	29.1		ug/L		102	23 - 160	1	40
2,4-Dimethylphenol	ND		28.5	24.6		ug/L		86	25 - 146	6	47
Dimethyl phthalate	ND		28.5	27.0		ug/L		95	11 - 158	3	36
Di-n-butyl phthalate	ND		28.5	27.2		ug/L		95	28 - 162	6	32
4,6-Dinitro-ortho-cresol	ND		57.0	70.4		ug/L		124	10 - 168	4	42
2,4-Dinitrophenol	ND		57.0	85.7		ug/L		150	10 - 166	1	36
2,4-Dinitrotoluene	ND		28.5	31.5		ug/L		110	26 - 158	4	28
2,6-Dinitrotoluene	ND		28.5	30.2		ug/L		106	19 - 157	4	28
Di-n-octyl phthalate	ND		28.5	26.6		ug/L		93	42 - 150	4	35
1,4-Dioxane	ND		28.5	17.3		ug/L		61	10 - 130	11	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.5	25.5		ug/L		90	19 - 162	7	40
Hexachlorobenzene	ND		28.5	29.1		ug/L		102	45 - 145	6	33
Hexachlorocyclopentadiene	ND		28.5	16.1	J	ug/L		56	10 - 151	13	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-2 MSD — **Client Sample ID: MW14-ROX-070717**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane	ND		28.5	20.9		ug/L		73	29 - 130	9	41
Indene	ND		28.5	26.4		ug/L		93	22 - 130	8	40
Isophorone	ND		28.5	22.3		ug/L		78	24 - 144	5	33
2-Methylphenol	ND		28.5	23.6		ug/L		83	22 - 130	8	47
3 & 4 Methylphenol	ND		28.5	23.4		ug/L		82	31 - 130	7	47
2-Nitroaniline	ND		28.5	28.9		ug/L		102	10 - 162	5	33
3-Nitroaniline	ND		28.5	24.0		ug/L		84	10 - 163	12	39
4-Nitroaniline	ND		28.5	27.7		ug/L		97	10 - 162	7	50
Nitrobenzene	ND		28.5	21.6		ug/L		76	34 - 135	7	35
2-Nitrophenol	ND		28.5	24.9		ug/L		87	27 - 134	7	43
4-Nitrophenol	ND		57.0	55.9		ug/L		98	10 - 175	0	82
N-Nitrosodimethylamine	ND	*	28.5	25.6		ug/L		90	10 - 139	6	62
N-Nitrosodi-n-propylamine	ND		28.5	22.3		ug/L		78	13 - 147	8	36
N-Nitrosodiphenylamine	ND		28.3	29.3		ug/L		104	31 - 150	5	34
Pentachlorophenol	ND		57.0	63.4		ug/L		111	10 - 180	6	42
Phenol	ND		28.5	22.6		ug/L		79	23 - 130	7	52
Pyridine	ND		28.5	21.1		ug/L		74	10 - 130	7	55
Quinoline	ND	F2	28.5	27.8	F2	ug/L		98	10 - 180	74	40
2,4,5-Trichlorophenol	ND		28.5	29.7		ug/L		104	43 - 137	4	42
2,4,6-Trichlorophenol	ND		28.5	29.2		ug/L		103	42 - 135	5	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol	*58*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*70*		*10 - 120*
Terphenyl-d14	*96*		*53 - 125*
2,4,6-Tribromophenol	*110*		*15 - 135*

Lab Sample ID: 400-140267-5 MS — **Client Sample ID: MW-26-ROX-07072017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		28.8	19.4		ug/L		67	10 - 143
Benzoic acid	ND		120	112		ug/L		93	10 - 134
Benzyl alcohol	ND		28.8	28.3		ug/L		98	10 - 154
Bis(2-chloroethoxy)methane	ND		28.8	22.1		ug/L		77	14 - 147
Bis(2-chloroethyl)ether	ND		28.8	23.0		ug/L		80	28 - 130
bis (2-chloroisopropyl) ether	ND		28.8	21.6		ug/L		75	10 - 141
Bis(2-ethylhexyl) phthalate	4.0	J B F1 F2	28.8	157	E F1	ug/L		529	43 - 160
4-Bromophenyl phenyl ether	ND		28.8	28.4		ug/L		98	26 - 159
Butyl benzyl phthalate	ND		28.8	25.9		ug/L		90	43 - 151
4-Chloroaniline	ND		28.8	20.6		ug/L		71	10 - 152
4-Chloro-3-methylphenol	ND		28.8	24.8		ug/L		86	17 - 156
2-Chloronaphthalene	ND		28.8	26.7		ug/L		93	10 - 155
2-Chlorophenol	ND		28.8	21.5		ug/L		75	19 - 130
4-Chlorophenyl phenyl ether	ND		28.8	27.6		ug/L		96	25 - 161

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-5 MS — **Client Sample ID: MW-26-ROX-07072017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360149 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz[a,h]acridine	ND		28.8	28.4		ug/L		99	42 - 147
Dibenzofuran	ND		28.8	27.6		ug/L		96	18 - 157
3,3'-Dichlorobenzidine	ND		38.4	28.3		ug/L		74	10 - 172
2,4-Dichlorophenol	ND		28.8	23.9		ug/L		83	16 - 147
Diethyl phthalate	ND		28.8	28.7		ug/L		100	23 - 160
2,4-Dimethylphenol	ND		28.8	23.9		ug/L		83	25 - 146
Dimethyl phthalate	ND		28.8	25.9		ug/L		90	11 - 158
Di-n-butyl phthalate	ND		28.8	26.7		ug/L		93	28 - 162
4,6-Dinitro-ortho-cresol	ND		57.7	68.3		ug/L		119	10 - 168
2,4-Dinitrophenol	ND		57.7	81.5		ug/L		141	10 - 166
2,4-Dinitrotoluene	ND		28.8	31.6		ug/L		110	26 - 158
2,6-Dinitrotoluene	ND		28.8	29.5		ug/L		102	19 - 157
Di-n-octyl phthalate	ND		28.8	26.2		ug/L		91	42 - 150
1,4-Dioxane	ND		28.8	17.9		ug/L		62	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		28.8	25.1		ug/L		87	19 - 162
Hexachlorobenzene	ND		28.8	28.5		ug/L		99	45 - 145
Hexachlorocyclopentadiene	ND		28.8	14.9	J	ug/L		52	10 - 151
Hexachloroethane	ND		28.8	18.9		ug/L		66	29 - 130
Indene	ND		28.8	25.8		ug/L		89	22 - 130
Isophorone	ND		28.8	21.8		ug/L		76	24 - 144
2-Methylphenol	ND		28.8	22.9		ug/L		79	22 - 130
3 & 4 Methylphenol	ND		28.8	22.7		ug/L		79	31 - 130
2-Nitroaniline	ND		28.8	28.0		ug/L		97	10 - 162
3-Nitroaniline	ND		28.8	27.6		ug/L		96	10 - 163
4-Nitroaniline	ND		28.8	27.5		ug/L		96	10 - 162
Nitrobenzene	ND		28.8	21.6		ug/L		75	34 - 135
2-Nitrophenol	ND		28.8	24.6		ug/L		85	27 - 134
4-Nitrophenol	ND		57.7	51.2		ug/L		89	10 - 175
N-Nitrosodimethylamine	ND	*	28.8	25.0		ug/L		87	10 - 139
N-Nitrosodi-n-propylamine	ND		28.8	22.0		ug/L		76	13 - 147
N-Nitrosodiphenylamine	ND		28.6	28.6		ug/L		100	31 - 150
Pentachlorophenol	ND		57.7	58.5		ug/L		102	10 - 180
Phenol	ND		28.8	22.5		ug/L		78	23 - 130
Pyridine	ND		28.8	20.5		ug/L		71	10 - 130
Quinoline	ND		28.8	26.9		ug/L		93	10 - 180
2,4,5-Trichlorophenol	ND		28.8	28.5		ug/L		99	43 - 137
2,4,6-Trichlorophenol	ND		28.8	28.0		ug/L		97	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*34 - 120*
2-Fluorophenol	*59*		*10 - 120*
Nitrobenzene-d5	*72*		*27 - 120*
Phenol-d5	*69*		*10 - 120*
Terphenyl-d14	*95*		*53 - 125*
2,4,6-Tribromophenol	*108*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 360149

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		29.4	18.4		ug/L		62	10 - 143	5	63
Benzoic acid	ND		123	113		ug/L		92	10 - 134	1	49
Benzyl alcohol	ND		29.4	28.4		ug/L		97	10 - 154	1	37
Bis(2-chloroethoxy)methane	ND		29.4	22.0		ug/L		75	14 - 147	1	70
Bis(2-chloroethyl)ether	ND		29.4	22.9		ug/L		78	28 - 130	0	42
bis (2-chloroisopropyl) ether	ND		29.4	22.1		ug/L		75	10 - 141	2	41
Bis(2-ethylhexyl) phthalate	4.0	J B F1 F2	29.4	31.2	F2	ug/L		93	43 - 160	134	35
4-Bromophenyl phenyl ether	ND		29.4	28.5		ug/L		97	26 - 159	1	30
Butyl benzyl phthalate	ND		29.4	26.5		ug/L		90	43 - 151	2	32
4-Chloroaniline	ND		29.4	20.2		ug/L		69	10 - 152	2	94
4-Chloro-3-methylphenol	ND		29.4	25.1		ug/L		85	17 - 156	1	40
2-Chloronaphthalene	ND		29.4	27.1		ug/L		92	10 - 155	1	29
2-Chlorophenol	ND		29.4	22.0		ug/L		75	19 - 130	2	42
4-Chlorophenyl phenyl ether	ND		29.4	27.8		ug/L		95	25 - 161	1	27
Dibenz[a,h]acridine	ND		29.4	28.5		ug/L		97	42 - 147	0	40
Dibenzofuran	ND		29.4	27.6		ug/L		94	18 - 157	0	29
3,3'-Dichlorobenzidine	ND		39.2	21.7		ug/L		55	10 - 172	26	58
2,4-Dichlorophenol	ND		29.4	24.1		ug/L		82	16 - 147	1	43
Diethyl phthalate	ND		29.4	28.4		ug/L		97	23 - 160	1	40
2,4-Dimethylphenol	ND		29.4	23.6		ug/L		80	25 - 146	1	47
Dimethyl phthalate	ND		29.4	26.6		ug/L		91	11 - 158	3	36
Di-n-butyl phthalate	ND		29.4	26.7		ug/L		91	28 - 162	0	32
4,6-Dinitro-ortho-cresol	ND		58.8	68.0		ug/L		116	10 - 168	0	42
2,4-Dinitrophenol	ND		58.8	82.0		ug/L		139	10 - 166	1	36
2,4-Dinitrotoluene	ND		29.4	31.7		ug/L		108	26 - 158	0	28
2,6-Dinitrotoluene	ND		29.4	29.6		ug/L		101	19 - 157	0	28
Di-n-octyl phthalate	ND		29.4	26.7		ug/L		91	42 - 150	2	35
1,4-Dioxane	ND		29.4	16.3		ug/L		55	10 - 130	9	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		29.4	25.4		ug/L		86	19 - 162	1	40
Hexachlorobenzene	ND		29.4	28.8		ug/L		98	45 - 145	1	33
Hexachlorocyclopentadiene	ND		29.4	15.2	J	ug/L		52	10 - 151	2	50
Hexachloroethane	ND		29.4	19.9		ug/L		68	29 - 130	5	41
Indene	ND		29.4	25.7		ug/L		87	22 - 130	0	40
Isophorone	ND		29.4	21.9		ug/L		74	24 - 144	0	33
2-Methylphenol	ND		29.4	23.5		ug/L		80	22 - 130	3	47
3 & 4 Methylphenol	ND		29.4	23.3		ug/L		79	31 - 130	2	47
2-Nitroaniline	ND		29.4	28.0		ug/L		95	10 - 162	0	33
3-Nitroaniline	ND		29.4	26.8		ug/L		91	10 - 163	3	39
4-Nitroaniline	ND		29.4	26.9		ug/L		91	10 - 162	3	50
Nitrobenzene	ND		29.4	21.9		ug/L		74	34 - 135	1	35
2-Nitrophenol	ND		29.4	24.9		ug/L		85	27 - 134	1	43
4-Nitrophenol	ND		58.8	51.0		ug/L		87	10 - 175	0	82
N-Nitrosodimethylamine	ND	*	29.4	25.5		ug/L		87	10 - 139	2	62
N-Nitrosodi-n-propylamine	ND		29.4	22.1		ug/L		75	13 - 147	0	36
N-Nitrosodiphenylamine	ND		29.2	28.4		ug/L		97	31 - 150	1	34
Pentachlorophenol	ND		58.8	58.9		ug/L		100	10 - 180	1	42
Phenol	ND		29.4	22.6		ug/L		77	23 - 130	1	52

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 360149

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	ND		29.4	21.0		ug/L		71	10 - 130	2	55
Quinoline	ND		29.4	26.9		ug/L		91	10 - 180	0	40
2,4,5-Trichlorophenol	ND		29.4	28.9		ug/L		98	43 - 137	1	42
2,4,6-Trichlorophenol	ND		29.4	27.8		ug/L		94	42 - 135	1	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*34 - 120*
2-Fluorophenol	*56*		*10 - 120*
Nitrobenzene-d5	*70*		*27 - 120*
Phenol-d5	*67*		*10 - 120*
Terphenyl-d14	*99*		*53 - 125*
2,4,6-Tribromophenol	*106*		*15 - 135*

Lab Sample ID: MB 400-360266/1-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	7.14	J	10	2.3	ug/L		07/13/17 06:59	07/19/17 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
2-Fluorophenol	*60*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Phenol-d5	*61*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Terphenyl-d14	*75*		*53 - 125*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
2,4,6-Tribromophenol	*63*		*15 - 135*	*07/13/17 06:59*	*07/19/17 16:24*	*1*

Lab Sample ID: LCS 400-360266/2-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	30.0	23.9		ug/L		80	48 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*34 - 120*
2-Fluorophenol	*63*		*10 - 120*
Nitrobenzene-d5	*70*		*27 - 120*
Phenol-d5	*69*		*10 - 120*
Terphenyl-d14	*72*		*53 - 125*
2,4,6-Tribromophenol	*91*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360266/3-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360266

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			30.0	26.9		ug/L		90	48 - 150	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*106*		*34 - 120*
2-Fluorophenol	*89*		*10 - 120*
Nitrobenzene-d5	*94*		*27 - 120*
Phenol-d5	*86*		*10 - 120*
Terphenyl-d14	*96*		*53 - 125*
2,4,6-Tribromophenol	*125*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-359871/1-A
Matrix: Water
Analysis Batch: 361353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
Anthracene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Chrysene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Fluoranthene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
Fluorene	ND		0.20	0.021	ug/L		07/10/17 11:14	07/21/17 21:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/10/17 11:14	07/21/17 21:14	1
Phenanthrene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
Pyrene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/10/17 11:14	07/21/17 21:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*15 - 122*	*07/10/17 11:14*	*07/21/17 21:14*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*07/10/17 11:14*	*07/21/17 21:14*	*1*

Lab Sample ID: MB 400-359871/1-A
Matrix: Water
Analysis Batch: 361519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359871

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*142*	*X*	*33 - 138*	*07/10/17 11:14*	*07/24/17 16:59*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-359871/2-A
Matrix: Water
Analysis Batch: 361353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	26.9		ug/L		90	41 - 120
Acenaphthylene	30.0	27.2		ug/L		91	44 - 120
Anthracene	30.0	28.9		ug/L		96	49 - 120
Benzo[a]anthracene	30.0	29.2		ug/L		97	61 - 135
Benzo[a]pyrene	30.0	26.0		ug/L		87	52 - 120
Benzo[b]fluoranthene	30.0	27.8		ug/L		93	53 - 134
Benzo[g,h,i]perylene	30.0	29.6		ug/L		99	47 - 133
Benzo[k]fluoranthene	30.0	26.7		ug/L		89	57 - 134
Chrysene	30.0	30.6		ug/L		102	55 - 122
Dibenz(a,h)anthracene	30.0	31.5		ug/L		105	48 - 146
Fluoranthene	30.0	29.0		ug/L		97	54 - 128
Fluorene	30.0	28.9		ug/L		96	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.8		ug/L		103	43 - 142
Phenanthrene	30.0	28.8		ug/L		96	48 - 120
Pyrene	30.0	25.1		ug/L		84	48 - 132
1-Methylnaphthalene	30.0	22.2		ug/L		74	41 - 120
2-Methylnaphthalene	30.0	22.4		ug/L		75	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*89*		*33 - 138*
2-Fluorobiphenyl	*102*		*15 - 122*
Nitrobenzene-d5	*57*		*19 - 130*

Lab Sample ID: LCSD 400-359871/3-A
Matrix: Water
Analysis Batch: 361353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	24.5		ug/L		82	41 - 120	10	56
Acenaphthylene	30.0	24.7		ug/L		82	44 - 120	10	56
Anthracene	30.0	27.1		ug/L		90	49 - 120	6	51
Benzo[a]anthracene	30.0	27.9		ug/L		93	61 - 135	4	49
Benzo[a]pyrene	30.0	25.7		ug/L		86	52 - 120	1	50
Benzo[b]fluoranthene	30.0	27.1		ug/L		90	53 - 134	2	54
Benzo[g,h,i]perylene	30.0	27.1		ug/L		90	47 - 133	9	50
Benzo[k]fluoranthene	30.0	28.9		ug/L		96	57 - 134	8	52
Chrysene	30.0	29.5		ug/L		98	55 - 122	4	50
Dibenz(a,h)anthracene	30.0	31.4		ug/L		105	48 - 146	0	50
Fluoranthene	30.0	28.7		ug/L		96	54 - 128	1	52
Fluorene	30.0	26.9		ug/L		90	45 - 125	7	56
Indeno[1,2,3-cd]pyrene	30.0	30.3		ug/L		101	43 - 142	2	51
Phenanthrene	30.0	27.1		ug/L		90	48 - 120	6	56
Pyrene	30.0	23.2		ug/L		77	48 - 132	8	52
1-Methylnaphthalene	30.0	20.6		ug/L		69	41 - 120	8	55
2-Methylnaphthalene	30.0	20.7		ug/L		69	32 - 124	8	57

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-359871/3-A
Matrix: Water
Analysis Batch: 361353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359871

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	86		33 - 138
2-Fluorobiphenyl	93		15 - 122
Nitrobenzene-d5	53		19 - 130

Lab Sample ID: 400-140267-2 MS
Matrix: Water
Analysis Batch: 361353

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28.9	26.4		ug/L		91	35 - 113
Acenaphthylene	ND		28.9	26.0		ug/L		90	41 - 118
Anthracene	ND		28.9	28.3		ug/L		98	45 - 122
Benzo[a]anthracene	ND		28.9	29.1		ug/L		101	55 - 133
Benzo[a]pyrene	ND		28.9	25.1		ug/L		87	50 - 108
Benzo[b]fluoranthene	ND		28.9	28.5		ug/L		99	50 - 128
Benzo[g,h,i]perylene	ND		28.9	29.6		ug/L		103	46 - 133
Benzo[k]fluoranthene	ND		28.9	27.5		ug/L		95	52 - 128
Chrysene	ND		28.9	30.5		ug/L		106	52 - 116
Dibenz(a,h)anthracene	0.042	J	28.9	31.8		ug/L		110	52 - 143
Fluoranthene	ND		28.9	30.2		ug/L		104	32 - 150
Fluorene	ND		28.9	28.6		ug/L		99	15 - 150
Indeno[1,2,3-cd]pyrene	ND		28.9	30.9		ug/L		107	41 - 141
Phenanthrene	ND		28.9	28.6		ug/L		99	36 - 125
Pyrene	ND		28.9	24.5		ug/L		85	41 - 127
1-Methylnaphthalene	0.056	J	28.9	22.1		ug/L		76	10 - 150
2-Methylnaphthalene	ND		28.9	21.9		ug/L		76	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	88		33 - 138
2-Fluorobiphenyl	99		15 - 122
Nitrobenzene-d5	58		19 - 130

Lab Sample ID: 400-140267-2 MSD
Matrix: Water
Analysis Batch: 361353

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		28.5	25.2		ug/L		88	35 - 113	5	49
Acenaphthylene	ND		28.5	24.6		ug/L		86	41 - 118	5	48
Anthracene	ND		28.5	26.7		ug/L		94	45 - 122	6	56
Benzo[a]anthracene	ND		28.5	28.0		ug/L		98	55 - 133	4	57
Benzo[a]pyrene	ND		28.5	24.2		ug/L		85	50 - 108	4	59
Benzo[b]fluoranthene	ND		28.5	26.3		ug/L		92	50 - 128	8	62
Benzo[g,h,i]perylene	ND		28.5	27.8		ug/L		98	46 - 133	6	58
Benzo[k]fluoranthene	ND		28.5	27.1		ug/L		95	52 - 128	1	58
Chrysene	ND		28.5	29.2		ug/L		103	52 - 116	4	59
Dibenz(a,h)anthracene	0.042	J	28.5	30.2		ug/L		106	52 - 143	5	60
Fluoranthene	ND		28.5	29.6		ug/L		104	32 - 150	2	59

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-140267-2 MSD — **Client Sample ID: MW14-ROX-070717**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 361353 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	ND		28.5	27.5		ug/L		97	15 - 150	4	49
Indeno[1,2,3-cd]pyrene	ND		28.5	29.3		ug/L		103	41 - 141	5	58
Phenanthrene	ND		28.5	27.9		ug/L		98	36 - 125	3	69
Pyrene	ND		28.5	23.3		ug/L		82	41 - 127	5	58
1-Methylnaphthalene	0.056	J	28.5	20.8		ug/L		73	10 - 150	6	66
2-Methylnaphthalene	ND		28.5	20.8		ug/L		73	10 - 150	5	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*88*		*33 - 138*
2-Fluorobiphenyl	*98*		*15 - 122*
Nitrobenzene-d5	*54*		*19 - 130*

Lab Sample ID: 400-140267-5 MS — **Client Sample ID: MW-26-ROX-07072017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 361353 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28.8	25.4		ug/L		88	35 - 113
Acenaphthylene	ND		28.8	25.2		ug/L		87	41 - 118
Anthracene	ND		28.8	27.4		ug/L		95	45 - 122
Benzo[a]anthracene	ND		28.8	28.2		ug/L		98	55 - 133
Benzo[a]pyrene	ND		28.8	23.7		ug/L		82	50 - 108
Benzo[b]fluoranthene	ND		28.8	28.1		ug/L		98	50 - 128
Benzo[g,h,i]perylene	ND		28.8	28.5		ug/L		99	46 - 133
Benzo[k]fluoranthene	ND		28.8	25.9		ug/L		90	52 - 128
Chrysene	ND		28.8	29.9		ug/L		104	52 - 116
Dibenz(a,h)anthracene	ND		28.8	31.3		ug/L		108	52 - 143
Fluoranthene	ND		28.8	30.3		ug/L		105	32 - 150
Fluorene	ND		28.8	27.6		ug/L		96	15 - 150
Indeno[1,2,3-cd]pyrene	ND		28.8	30.3		ug/L		105	41 - 141
Phenanthrene	ND		28.8	28.5		ug/L		99	36 - 125
Pyrene	ND		28.8	23.0		ug/L		80	41 - 127
1-Methylnaphthalene	ND		28.8	21.0		ug/L		73	10 - 150
2-Methylnaphthalene	0.028	J	28.8	21.2		ug/L		73	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*85*		*33 - 138*
2-Fluorobiphenyl	*99*		*15 - 122*
Nitrobenzene-d5	*57*		*19 - 130*

Lab Sample ID: 400-140267-5 MSD — **Client Sample ID: MW-26-ROX-07072017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 361353 — **Prep Batch: 359871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		29.4	25.3		ug/L		86	35 - 113	0	49
Acenaphthylene	ND		29.4	25.5		ug/L		87	41 - 118	1	48
Anthracene	ND		29.4	27.5		ug/L		94	45 - 122	0	56

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 361353

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA
Prep Batch: 359871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	ND		29.4	28.8		ug/L		98	55 - 133	2	57
Benzo[a]pyrene	ND		29.4	25.2		ug/L		86	50 - 108	6	59
Benzo[b]fluoranthene	ND		29.4	27.8		ug/L		94	50 - 128	1	62
Benzo[g,h,i]perylene	ND		29.4	28.1		ug/L		96	46 - 133	1	58
Benzo[k]fluoranthene	ND		29.4	30.6		ug/L		104	52 - 128	16	58
Chrysene	ND		29.4	30.7		ug/L		105	52 - 116	3	59
Dibenz(a,h)anthracene	ND		29.4	31.3		ug/L		106	52 - 143	0	60
Fluoranthene	ND		29.4	29.4		ug/L		100	32 - 150	3	59
Fluorene	ND		29.4	27.8		ug/L		94	15 - 150	1	49
Indeno[1,2,3-cd]pyrene	ND		29.4	29.3		ug/L		100	41 - 141	3	58
Phenanthrene	ND		29.4	28.5		ug/L		97	36 - 125	0	69
Pyrene	ND		29.4	24.7		ug/L		84	41 - 127	7	58
1-Methylnaphthalene	ND		29.4	21.3		ug/L		73	10 - 150	1	66
2-Methylnaphthalene	0.028	J	29.4	21.3		ug/L		72	10 - 150	1	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*91*		*33 - 138*
2-Fluorobiphenyl	*99*		*15 - 122*
Nitrobenzene-d5	*57*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-360468/1-A
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360468

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		07/14/17 10:54	07/21/17 17:07	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/21/17 17:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*157*	*X*	*51 - 149*	*07/14/17 10:54*	*07/21/17 17:07*	*1*

Lab Sample ID: LCS 400-360468/2-A
Matrix: Water
Analysis Batch: 361080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.105		ug/L		105	60 - 140
1,2-Dibromoethane	0.100	0.0892		ug/L		89	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-140267-2 MS
Matrix: Water
Analysis Batch: 361274

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA
Prep Batch: 360468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.0978	0.0755		ug/L		77	65 - 135
1,2-Dibromoethane	ND	F1	0.0978	0.0611	F1	ug/L		62	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*51 - 149*

Lab Sample ID: 400-140267-2 MSD
Matrix: Water
Analysis Batch: 361274

Client Sample ID: MW14-ROX-070717
Prep Type: Total/NA
Prep Batch: 360468

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		0.0972	0.0684		ug/L		70	65 - 135	10	20
1,2-Dibromoethane	ND		0.0972	0.103		ug/L		106	65 - 135	NC	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*51 - 149*

Lab Sample ID: 400-140267-5 MS
Matrix: Water
Analysis Batch: 361274

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA
Prep Batch: 360468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND	F1	0.0989	0.151	F1	ug/L		153	65 - 135
1,2-Dibromoethane	ND	F2	0.0989	0.169	F1	ug/L		171	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*130*		*51 - 149*

Lab Sample ID: 400-140267-5 MSD
Matrix: Water
Analysis Batch: 361274

Client Sample ID: MW-26-ROX-07072017
Prep Type: Total/NA
Prep Batch: 360468

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	0.0975	0.146	F1	ug/L		150	65 - 135	4	20
1,2-Dibromoethane	ND	F2 F1	0.0975	0.134	F1 F2	ug/L		137	65 - 135	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*120*		*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:	PlaNet Site or Project ID
Bob Billman	25278
PO #	GSAP Project ID
60527968 - 1.03 003 / 1.03 0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE 07/07/17

PAGE 1 of 2

SAMPLING COMPANY: AECOM

LOG COOL.

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

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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

LDF 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. Peters, M. Karrick, K. Walkowska, J. Roberts

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; melissa.remiger@aecom.com

TURNAROUND TIME (BUSINESS DAYS)

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LLEVEL 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 60527968 - 1.03.0033

NON-UNIT COST 60527968 - 1.03.003

400-140267 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT: 2.3°C 2.1°C 5.0°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	Container PID Readings or Laboratory Notes
	MW13-ROX-070717	07/07	1135	Water	4			2		6	X	X	X	X	COOLER#1
	MW14-ROX-070717	07/07	1405	Water	4			2		6	X	X	X	X	COOLER#3
	MW14-ROX-070717-MS	07/07	1405	Water	4			2		6	X	X	X	X	COOLER#3
	MW14-ROX-070717-MSD	07/07	1405	Water	4			2		6	X	X	X	X	COOLER#3
	TB-ROX-070717-8260	07/07	0000	Water	2					2			X		COOLER#1
	TB-ROX-070717-8011	07/07	0000	Water	2					2	X				COOLER#1
															~~COOLER#1~~

MK

Relinquished by (Signature)	Received by (Signature)	Date	Time
Megan Karl	Fedex	07/07/17	
		7/8/17	820

Version 14Dec15

Custody #367546, 367547, 367544, 367545, 367542, 367543,

Vods in cooler #1

7/27/2017

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364580 (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
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7-7-2017
PAGE: 2 of 2

SAMPLING COMPANY: AECOM
LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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): K. Walkowska, J. Roberts, M. Karrick, 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; melissa.reniger@aecom.com

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

☐ LA - SWQCB 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 DISA

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW26-ROX-07072017	7/7	0950	water	4			2		6	X	X	X	X	cooler #2
	MW26-ROX-07072017-MS	7/7	0950	water	4			2		6	X	X	X	X	cooler #2
	MW26-ROX-07072017-MSD	7/7	0950	water	4			2		6	X	X	X	X	cooler #2
	MW12-ROX-07072017	7/7	1125	water	4			2		6	X	X	X	X	cooler #2
	MW24-ROX-07072017	7/7	1440	water	4			2		6	X	X	X	X	cooler #3
	TB-ROX-07072017-8260-B	7/7	0000	water	2					2			X		cooler # 1
	TB-ROX-07072017-8011-B	7/7	0000	water	2	X				2	X				cooler # 1

	Relinquished by (Signature)	Received by (Signature)	Date	Time
		Fedex	07/07/2017	1700
			7/8/17	820

Version: 14Dec15

Custody # 367546, 367547, 367544, 367546, 367542, 367543

VOAs in cooler #1

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140267-1

Login Number: 140267
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	2.3°C,2.1°C,5.0°C IR2
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	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140267-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140344-1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/17/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
MW4-ROX-071017	MW25-ROX-071017-EB
MW25-ROX-071017	MW8-ROX-071017
TB-ROX-071017-8260	TB-ROX-071017-8011
MW16-ROX-071017-EB	MW16-ROX-071017
P54-ROX-071017	MW11-ROX-071017
MW27-ROX-071017	TB-ROX-071017-8260-A
TB-ROX-071017-8011-A	

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-analyzed outside of the extraction holding time. SVOCs and PAHs were detected in the method blank, and although not indicated in the laboratory case narrative, bis(2-ethylhexyl) phthalate was detected in the equipment blanks. Several SVOC LCS/LCSD recoveries and the LCS/LCSD RPDs were outside evaluation criteria. Several surrogate recoveries were outside criteria in several samples. The SVOC internal standard area recovery for perylene-d_{12} was outside criteria in sample MW27-ROX-071017. VOCs and phenol in sample MW8-ROX-071017 were diluted due to high levels of target analytes. The continuing calibration verification for hexachlorocyclopentadiene and di-n-octyl phthalate was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for di-n-octyl phthalate, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification. The CCV standard associated with Method 8011 VOCs failed to meet acceptance criteria; the LCS recovered within limit, therefore no qualification of data was required.

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 not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, SVOCs were re-analyzed 10 days outside of the holding time criteria (7 days) due to internal standards outside evaluation criteria in the initial analysis. 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
MW25-ROX-071017 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
MW25-ROX-071017-EB	SVOCs	Bis(2-ethylhexyl) phthalate	2.5 µg/L
MW16-ROX-071017-EB	SVOCs	Bis(2-ethylhexyl) phthalate	14 µg/L
MB 400-362010/1-A	SVOCs	Benzyl alcohol	41.1 µg/L
MB 400-362010/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	38 µg/L
MB 400-360171/1-A	PAHs	Benzo[g,h,i]perylene	0.0581 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. Please see section 12.0 of this review for additional qualifications regarding samples associated with equipment blanks MW25-ROX-071017-EB and MW16-ROX-071017-EB.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW4-ROX-071017	PAHs	Benzo[g,h,i]perylene	0.24 µg/L	**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 400-360171/2-A/3-A	SVOCs	Benzoic acid	50/30	**90**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Benzyl alcohol	46/63	**32**	19-125/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Bis(2-chloroethyl)ether	**46**/63	**31**	48-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	2-Chlorophenol	34/47	**32**	34-120/30

LCS/LCSD ID	Parameter	Analyte	LCS/ LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Dibenz[a,h]acridine	62/88	**36**	46-149/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	4,6-Dinitro-ortho-cresol	62/89	**36**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	2,4-Dinitrophenol	59/89	**41**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	1,4-Dioxane	33/48	**35**	25-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Hexachlorocyclopentadiene	**8**/13	**46**	10-129/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Indene	52/74	**35**	47-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Pyridine	37/53	**36**	26-120/30
LCS/LCSD 400-360171/4-A/5-A	SVOCs	Benzenethiol	**2/2**	21	10-120/30
LCS/LCSD 400-362010/2-A/3-A	SVOCs	Benzoic acid	83/**9**	**163**	10-150/30
LCS/LCSD 400-362010/2-A/3-A	SVOCs	Benzyl alcohol	**153**/107	**35**	19-125/30
LCS/LCSD 400-362010/2-A/3-A	SVOCs	2-Chlorophenol	38/66	**53**	34-120/30
LCS/LCSD 400-362010/2-A/3-A	SVOCs	2-Nitrophenol	50/70	**32**	28-136/30
LCS/LCSD 400-362010/2-A/3-A	SVOCs	Phenol	45/65	**35**	33-120/30
LCS/LCSD 400-362010/4-A/5-A	SVOCs	Benzenethiol	**2/2**	8	10-120/30

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Analytical data associated with RPD alone outside evaluation criteria did not require qualification. Professional judgment was used to qualify, however not reject, data associated with benzenethiol in LCS/LCSD 400-360171/2-A/3-A; benzenethiol has been identified as a poor performing analyte under Method 8270. SVOCs in sample MW25-ROX-071017 were previously qualified in Section 3.0 of this review due to holding time criteria; no additional qualification of SVOCs in sample MW25-ROX-071017 was required.

Sample ID	Parameter	Analyte	Qualification
MW4-ROX-071017	SVOCs	Benzenethiol	**UJ**
MW4-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW4-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW8-ROX-071017	SVOCs	Benzenethiol	**UJ**
MW8-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW8-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW16-ROX-071017	SVOCs	Benzenethiol	**UJ**
MW16-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW16-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**

Sample ID	Parameter	Analyte	Qualification
P54-ROX-071017	SVOCs	Benzenethiol	**UJ**
P54-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
P54-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW11-ROX-071017	SVOCs	Benzenethiol	**UJ**
MW11-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW11-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**
MW27-ROX-071017	SVOCs	Benzenethiol	**UJ**
MW27-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW27-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW25-ROX-071017-EB	VOCs by 8011	4-Bromofluorobenzene	**162**	51-149
MW25-ROX-071017 Run#1	SVOCs	Phenol-d_5	**6**	10-120
MW25-ROX-071017 Run#1	SVOCs	Terphenyl-d_{14}	**40**	53-125
MW8-ROX-071017	PAHs	Terphenyl-d_{14}	**29**	33-138
MW8-ROX-071017	SVOCs	Terphenyl-d_{14}	**36**	53-125
MB 400-360468/1-A	VOCs by 8011	4-Bromofluorobenzene	**157**	51-149

Qualifications due to surrogate recoveries were not required due to only one of three base/neutral fraction surrogate recoveries being outside evaluation criteria in the associated PAH or SVOC samples. Qualifications due to surrogate recoveries were not required for quality control samples MB 400-360468/1-A and MW25-ROX-071017-EB. Quality control samples do not require qualification. SVOCs associated with surrogate recoveries outside evaluation criteria in sample MW25-ROX-071017 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.

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
MW27-ROX-071017	SVOCs	Perylene-d_{12}	**987147**	235478-941912

Analytical data reported as non-detect and associated with internal standard recoveries above evaluation criteria, indicating a possible high bias, did 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

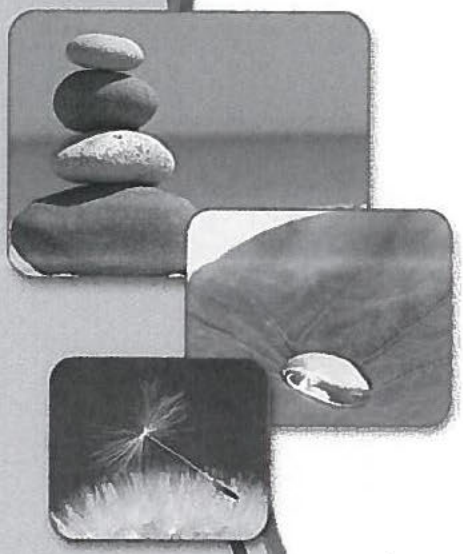
Were additional qualifications applied?

Yes, the continuing calibration verification for hexachlorocyclopentadiene and di-n-octyl phthalate was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW27-ROX-071017	SVOCs	Di-n-octyl phthalate	-	**UJ**

Additionally, professional judgment was also used to qualify as estimated, however not reject, data that was associated with equipment blanks MW25-ROX-071017-EB and MW16-ROX-071017-EB.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW4-ROX-071017	SVOCs	Bis(2-ethylhexyl) phthalate	-	**J**
MW11-ROX-071017	SVOCs	Bis(2-ethylhexyl) phthalate	-	**J**



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
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TestAmerica Job ID: 400-140344-1
Client Project/Site: ROXANA QUARTERLY

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Attn: Mrs. Elizabeth Kunkel

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Reviewed 8/17/17 LR

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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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 6
Detection Summary 7
Client Sample Results 9
Definitions 52
Surrogate Summary 53
Method Summary 56
Chronicle 57
QC Association 65
QC Sample Results 68
Chain of Custody 100
Receipt Checklists 102
Certification Summary 103

Job ID: 400-140344-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140344-1

Receipt
The samples were received on 7/11/2017 1:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.1°C and 4.2°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-360682 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 400-360682 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 batches 400-360800 and 400-360276 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 batches 400-360800 and 400-360276 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: MW-4-ROX-071017 (400-140344-1), MW-25-ROX-071017-EB (400-140344-2), MW-25-ROX-071017 (400-140344-3), MW-8-ROX-071017 (400-140344-4), MW-16-ROX-071017 (400-140344-8), P54-ROX-071017 (400-140344-9), MW11-ROX-071017 (400-140344-10), MW27-ROX-071017 (400-140344-11) and TB-ROX-071017-8026-A (400-140344-12). 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 laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-360171 and analytical batch 400-360434 recovered outside control limits for the following analytes: Benzenethiol. Benzenethiol have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

The RPD of and laboratory control sample duplicate (LCSD) for batch preparation batch 400-360171 and analytical batch 400-360434 recovered outside control limits for the following analytes: Hexachlorocyclopentadiene, Pyridine, Indene, 1,4-Dioxane, 2-Chlorophenol, Benzyl alcohol, Benzoic acid, Bis(2-chloroethyl)ether, 4,6-Dinitro-ortho-cresol, 2,4-Dinitrophenol and Dibenz[a,h]acridine.

The following analyte recovered outside control limits for LCS associated with preparation batch 400-360171 and analytical batch 400-360434: Bis(2-chloroethyl)ether and Hexachlorocyclopentadiene. This is not indicative of a systematic control problem because these were random marginal exceedances.

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: MW-8-ROX-071017 (400-140344-4). This results has been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-360434 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8-ROX-071017 (400-140344-4). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 400-360675 recovered outside acceptance criteria, low biased, for

Job ID: 400-140344-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Di-n-octyl phthalate and Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-362010 and analytical batch 400-362334 recovered outside control limits for the following analytes: 2-Nitrophenol, 2-Chlorophenol, Benzyl alcohol, Benzoic acid and Phenol.

The laboratory control sample (LCS) for preparation batch 400-362010 and analytical batch 400-362334 recovered outside control limits for the following analytes: Benzyl alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-362010 and analytical batch 400-362334 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. These results have been reported and qualified.

The laboratory control sample duplicate (LCSD) for preparation batch 400-362010 and analytical batch 400-362334 recovered outside control limits for the following analyte: Benzoic acid. Benzoic acid 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. These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-362334 recovered above the upper control limit for Di-n-octyl phthalate. The sample associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-25-ROX-071017 (400-140344-3).

The method blank for preparation batch 400-362010 and 400-362010 contained Benzyl alcohol and Bis(2-ethylhexyl) phthalate above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

The following sample was re-prepared outside of preparation holding time due to Internal standard failed in the original analysis : MW-25-ROX-071017 (400-140344-3). Both sets of data have been reported.

Method 8270D LL:
The method blank for preparation batch 400-360171 and analytical batch 400-360412 contained Benzo[g,h,i]perylene 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.

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 sample contained an allowable number of surrogate compounds outside limits: MW-8-ROX-071017 (400-140344-4). These results have been reported and qualified.

GC Semi VOA
Method 8011:
The closing continuing calibration verification (CCV) standard associated with batch 400-361080 failed to meet acceptance limits. The laboratory control sample (LCS) recovered within limit;therefore, the data has been reported.

The continuing calibration verification (CCV) associated with batch 400-361274 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane and 1,2-Dibromoethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-4-ROX-071017 (400-140344-1), MW-25-ROX-071017-EB (400-140344-2), MW-25-ROX-071017 (400-140344-3), MW-8-ROX-071017 (400-140344-4), TB-ROX-071017-8011 (400-140344-6), MW-16-ROX-071017-EB (400-140344-7), MW-16-ROX-071017 (400-140344-8), P54-ROX-071017 (400-140344-9), MW11-ROX-071017 (400-140344-10), MW27-ROX-071017 (400-140344-11) and TB-ROX-071017-8011-A (400-140344-13).

Surrogate recovery for the following samples was outside the upper control limit: MW-25-ROX-071017-EB (400-140344-2) and (MB

Job ID: 400-140344-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

400-360468/1-A). This 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 (MS/MSD) associated with preparation batch 400-360171 and 400-360171.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-362010.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140344-1	MW4-ROX-071017	Water	07/10/17 10:10	07/11/17 13:08
400-140344-2	MW25-ROX-071017-EB	Water	07/10/17 11:05	07/11/17 13:08
400-140344-3	MW25-ROX-071017	Water	07/10/17 11:55	07/11/17 13:08
400-140344-4	MW8-ROX-071017	Water	07/10/17 14:20	07/11/17 13:08
400-140344-5	TB-ROX-071017-8260	Water	07/10/17 00:00	07/11/17 13:08
400-140344-6	TB-ROX-071017-8011	Water	07/10/17 00:00	07/11/17 13:08
400-140344-7	MW16-ROX-071017-EB	Water	07/10/17 10:15	07/11/17 13:08
400-140344-8	MW16-ROX-071017	Water	07/10/17 11:05	07/11/17 13:08
400-140344-9	P54-ROX-071017	Water	07/10/17 12:00	07/11/17 13:08
400-140344-10	MW11-ROX-071017	Water	07/10/17 14:00	07/11/17 13:08
400-140344-11	MW27-ROX-071017	Water	07/10/17 15:10	07/11/17 13:08
400-140344-12	TB-ROX-071017-8026-A	Water	07/10/17 00:00	07/11/17 13:08
400-140344-13	TB-ROX-071017-8011-A	Water	07/10/17 00:00	07/11/17 13:08

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: MW4-ROX-071017 — Lab Sample ID: 400-140344-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	25	10	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	7.8		1.0	0.74	ug/L	1		8260B	Total/NA
Benzo[a]pyrene	0.039	J	0.19	0.038	ug/L	1		8270D LL	Total/NA
Benzo[b]fluoranthene	0.051	J	0.19	0.038	ug/L	1		8270D LL	Total/NA
Benzo[g,h,i]perylene	~~0.24~~	B	~~0.19~~ 0.24	0.038	ug/L	1		8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.095	J	0.19	0.038	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.18	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.029	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	39	J	9.6	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW25-ROX-071017-EB — Lab Sample ID: 400-140344-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.5	J	9.6	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW25-ROX-071017 — Lab Sample ID: 400-140344-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	25	10	ug/L	1		8260B	Total/NA
Benzene	56		1.0	0.38	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	20		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.063	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.032	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	6.3	J *	9.5	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW8-ROX-071017 — Lab Sample ID: 400-140344-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	870000		5000	1900	ug/L	5000		8260B	Total/NA
1-Methylnaphthalene	9.2		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	5.2		0.19	0.019	ug/L	1		8270D LL	Total/NA
2,4-Dimethylphenol	6.7	J	9.6	3.3	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	2.3	J	19	0.99	ug/L	1		8270D	Total/NA
Pentachlorophenol	1.8	J	19	1.7	ug/L	1		8270D	Total/NA
Phenol - DL	140		48	12	ug/L	5		8270D	Total/NA

Client Sample ID: TB-ROX-071017-8260 — Lab Sample ID: 400-140344-5

No Detections.

Client Sample ID: TB-ROX-071017-8011 — Lab Sample ID: 400-140344-6

No Detections.

Client Sample ID: MW16-ROX-071017-EB — Lab Sample ID: 400-140344-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	14		10	2.3	ug/L	1		8270D	Total/NA

Client Sample ID: MW16-ROX-071017 — Lab Sample ID: 400-140344-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW16-ROX-071017 (Continued)

Lab Sample ID: 400-140344-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.39	J	1.0	0.38	ug/L	1		8260B	Total/NA

Client Sample ID: P54-ROX-071017

Lab Sample ID: 400-140344-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.041	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Pyrene	0.031	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.044	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.055	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW11-ROX-071017

Lab Sample ID: 400-140344-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	3.0	J	10	2.3	ug/L	1		8270D	Total/NA

Client Sample ID: MW27-ROX-071017

Lab Sample ID: 400-140344-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.029	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

Client Sample ID: TB-ROX-071017-8026-A

Lab Sample ID: 400-140344-12

No Detections.

Client Sample ID: TB-ROX-071017-8011-A

Lab Sample ID: 400-140344-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW4-ROX-071017
Date Collected: 07/10/17 10:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**14**	**J**	25	10	ug/L			07/13/17 17:04	1
Acrolein	ND		20	10	ug/L			07/13/17 17:04	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 17:04	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 17:04	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 17:04	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 17:04	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 17:04	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 17:04	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 17:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 17:04	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 17:04	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 17:04	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 17:04	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 17:04	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:04	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 17:04	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 17:04	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 17:04	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 17:04	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 17:04	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 17:04	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 17:04	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 17:04	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 17:04	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 17:04	1
Methyl tert-butyl ether	**7.8**		1.0	0.74	ug/L			07/13/17 17:04	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 17:04	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 17:04	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 17:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 17:04	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 17:04	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 17:04	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 17:04	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 17:04	1

Client Sample ID: MW4-ROX-071017
Date Collected: 07/10/17 10:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-1
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			07/13/17 17:04	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 17:04	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 17:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 17:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 17:04	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 17:04	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 17:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 17:04	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:04	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 17:04	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 17:04	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 17:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 17:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 17:04	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 17:04	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 17:04	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 17:04*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 17:04*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 17:04*	*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		07/12/17 10:22	07/13/17 17:38	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Benzo[a]pyrene	**0.039**	**J**	0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Benzo[b]fluoranthene	**0.051**	**J**	0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Benzo[g,h,i]perylene	~~0.24~~	**B U**	~~0.19~~ 0.24	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:22	07/13/17 17:38	1
Indeno[1,2,3-cd]pyrene	**0.095**	**J**	0.19	0.038	ug/L		07/12/17 10:22	07/13/17 17:38	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
1-Methylnaphthalene	**0.18**	**J**	0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1
2-Methylnaphthalene	**0.029**	**J**	0.19	0.019	ug/L		07/12/17 10:22	07/13/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*81*		*33 - 138*	*07/12/17 10:22*	*07/13/17 17:38*	*1*
2-Fluorobiphenyl	*82*		*15 - 122*	*07/12/17 10:22*	*07/13/17 17:38*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: MW4-ROX-071017
Date Collected: 07/10/17 10:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		19 - 130	07/12/17 10:22	07/13/17 17:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.6	ug/L		07/12/17 10:22	07/14/17 17:49	1
Benzenethiol	ND	* UJ	9.6	1.6	ug/L		07/12/17 10:22	07/14/17 17:49	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:22	07/14/17 17:49	1
Benzyl alcohol	ND	*	9.6	1.9	ug/L		07/12/17 10:22	07/14/17 17:49	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/12/17 10:22	07/14/17 17:49	1
Bis(2-chloroethyl)ether	ND	* UJ	9.6	0.71	ug/L		07/12/17 10:22	07/14/17 17:49	1
bis (2-chloroisopropyl) ether	ND		9.6	0.77	ug/L		07/12/17 10:22	07/14/17 17:49	1
Bis(2-ethylhexyl) phthalate	39 J		~~9.6~~	2.2	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/12/17 10:22	07/14/17 17:49	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Chloroaniline	ND		9.6	3.2	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/12/17 10:22	07/14/17 17:49	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/12/17 10:22	07/14/17 17:49	1
2-Chlorophenol	ND	*	9.6	2.1	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/12/17 10:22	07/14/17 17:49	1
Dibenz[a,h]acridine	ND	*	9.6	2.9	ug/L		07/12/17 10:22	07/14/17 17:49	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/12/17 10:22	07/14/17 17:49	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/12/17 10:22	07/14/17 17:49	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4-Dimethylphenol	ND		9.6	3.3	ug/L		07/12/17 10:22	07/14/17 17:49	1
Dimethyl phthalate	ND		9.6	0.57	ug/L		07/12/17 10:22	07/14/17 17:49	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/12/17 10:22	07/14/17 17:49	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:22	07/14/17 17:49	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/12/17 10:22	07/14/17 17:49	1
1,4-Dioxane	ND	*	9.6	0.96	ug/L		07/12/17 10:22	07/14/17 17:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/12/17 10:22	07/14/17 17:49	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/12/17 10:22	07/14/17 17:49	1
Hexachlorocyclopentadiene	ND	* UJ	19	2.5	ug/L		07/12/17 10:22	07/14/17 17:49	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/12/17 10:22	07/14/17 17:49	1
Indene	ND	*	9.6	0.96	ug/L		07/12/17 10:22	07/14/17 17:49	1
Isophorone	ND		9.6	0.54	ug/L		07/12/17 10:22	07/14/17 17:49	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/12/17 10:22	07/14/17 17:49	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/12/17 10:22	07/14/17 17:49	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/12/17 10:22	07/14/17 17:49	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/12/17 10:22	07/14/17 17:49	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/12/17 10:22	07/14/17 17:49	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/12/17 10:22	07/14/17 17:49	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/12/17 10:22	07/14/17 17:49	1
N-Nitrosodimethylamine	ND		9.6	3.3	ug/L		07/12/17 10:22	07/14/17 17:49	1

Client Sample ID: MW4-ROX-071017

Date Collected: 07/10/17 10:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-1
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		9.6	3.2	ug/L		07/12/17 10:22	07/14/17 17:49	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/12/17 10:22	07/14/17 17:49	1
Pentachlorophenol	ND		19	1.7	ug/L		07/12/17 10:22	07/14/17 17:49	1
Phenol	ND		9.6	2.5	ug/L		07/12/17 10:22	07/14/17 17:49	1
Pyridine	ND	*	9.6	3.1	ug/L		07/12/17 10:22	07/14/17 17:49	1
Quinoline	ND		9.6	5.7	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/12/17 10:22	07/14/17 17:49	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		07/12/17 10:22	07/14/17 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*07/12/17 10:22*	*07/14/17 17:49*	*1*
2-Fluorophenol	*30*		*10 - 120*	*07/12/17 10:22*	*07/14/17 17:49*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*07/12/17 10:22*	*07/14/17 17:49*	*1*
Phenol-d5	*52*		*10 - 120*	*07/12/17 10:22*	*07/14/17 17:49*	*1*
Terphenyl-d14	*69*		*53 - 125*	*07/12/17 10:22*	*07/14/17 17:49*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*07/12/17 10:22*	*07/14/17 17:49*	*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		07/14/17 10:54	07/21/17 23:54	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/21/17 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*143*		*51 - 149*	*07/14/17 10:54*	*07/21/17 23:54*	*1*

Client Sample ID: MW25-ROX-071017-EB

Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-2

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			07/13/17 16:37	1
Acrolein	ND		20	10	ug/L			07/13/17 16:37	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 16:37	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 16:37	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 16:37	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 16:37	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 16:37	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 16:37	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 16:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 16:37	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 16:37	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 16:37	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 16:37	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 16:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 16:37	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 16:37	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 16:37	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 16:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 16:37	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 16:37	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 16:37	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 16:37	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 16:37	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 16:37	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 16:37	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 16:37	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 16:37	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 16:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 16:37	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 16:37	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 16:37	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 16:37	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 16:37	1

Client Sample ID: MW25-ROX-071017-EB
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-2
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			07/13/17 16:37	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 16:37	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 16:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 16:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 16:37	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 16:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 16:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 16:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 16:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 16:37	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 16:37	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 16:37	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 16:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 16:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 16:37	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 16:37	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 16:37	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/13/17 16:37*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/13/17 16:37*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/13/17 16:37*	*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		07/12/17 10:23	07/13/17 18:01	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:23	07/13/17 18:01	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:01	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*103*		*33 - 138*	*07/12/17 10:23*	*07/13/17 18:01*	*1*
2-Fluorobiphenyl	*78*		*15 - 122*	*07/12/17 10:23*	*07/13/17 18:01*	*1*

Client Sample ID: MW25-ROX-071017-EB
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		19 - 130	07/12/17 10:23	07/13/17 18:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 18:19	1
Benzenethiol	ND	*	9.6	1.6	ug/L		07/12/17 10:23	07/14/17 18:19	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:23	07/14/17 18:19	1
Benzyl alcohol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 18:19	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 18:19	1
Bis(2-chloroethyl)ether	ND	*	9.6	0.71	ug/L		07/12/17 10:23	07/14/17 18:19	1
bis (2-chloroisopropyl) ether	ND		9.6	0.77	ug/L		07/12/17 10:23	07/14/17 18:19	1
Bis(2-ethylhexyl) phthalate	2.5	J	9.6	2.2	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/12/17 10:23	07/14/17 18:19	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Chloroaniline	ND		9.6	3.2	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 18:19	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 18:19	1
2-Chlorophenol	ND	*	9.6	2.1	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/12/17 10:23	07/14/17 18:19	1
Dibenz[a,h]acridine	ND	*	9.6	2.9	ug/L		07/12/17 10:23	07/14/17 18:19	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 18:19	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/12/17 10:23	07/14/17 18:19	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4-Dimethylphenol	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 18:19	1
Dimethyl phthalate	ND		9.6	0.57	ug/L		07/12/17 10:23	07/14/17 18:19	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/12/17 10:23	07/14/17 18:19	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 18:19	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/12/17 10:23	07/14/17 18:19	1
1,4-Dioxane	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 18:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/12/17 10:23	07/14/17 18:19	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/12/17 10:23	07/14/17 18:19	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		07/12/17 10:23	07/14/17 18:19	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/12/17 10:23	07/14/17 18:19	1
Indene	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 18:19	1
Isophorone	ND		9.6	0.54	ug/L		07/12/17 10:23	07/14/17 18:19	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 18:19	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/12/17 10:23	07/14/17 18:19	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/12/17 10:23	07/14/17 18:19	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/12/17 10:23	07/14/17 18:19	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/12/17 10:23	07/14/17 18:19	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/12/17 10:23	07/14/17 18:19	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/12/17 10:23	07/14/17 18:19	1
N-Nitrosodimethylamine	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 18:19	1

Client Sample ID: MW25-ROX-071017-EB

Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-2
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		9.6	3.2	ug/L		07/12/17 10:23	07/14/17 18:19	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/12/17 10:23	07/14/17 18:19	1
Pentachlorophenol	ND		19	1.7	ug/L		07/12/17 10:23	07/14/17 18:19	1
Phenol	ND		9.6	2.5	ug/L		07/12/17 10:23	07/14/17 18:19	1
Pyridine	ND	*	9.6	3.1	ug/L		07/12/17 10:23	07/14/17 18:19	1
Quinoline	ND		9.6	5.7	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/12/17 10:23	07/14/17 18:19	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 120*	*07/12/17 10:23*	*07/14/17 18:19*	*1*
2-Fluorophenol	*38*		*10 - 120*	*07/12/17 10:23*	*07/14/17 18:19*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*07/12/17 10:23*	*07/14/17 18:19*	*1*
Phenol-d5	*55*		*10 - 120*	*07/12/17 10:23*	*07/14/17 18:19*	*1*
Terphenyl-d14	*83*		*53 - 125*	*07/12/17 10:23*	*07/14/17 18:19*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*07/12/17 10:23*	*07/14/17 18:19*	*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		07/14/17 10:54	07/22/17 00:13	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/14/17 10:54	07/22/17 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*162*	*X*	*51 - 149*	*07/14/17 10:54*	*07/22/17 00:13*	*1*

Client Sample ID: MW25-ROX-071017

Date Collected: 07/10/17 11:55
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**14**	**J**	25	10	ug/L			07/13/17 17:32	1
Acrolein	ND		20	10	ug/L			07/13/17 17:32	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 17:32	1
Benzene	**56**		1.0	0.38	ug/L			07/13/17 17:32	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 17:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 17:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 17:32	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 17:32	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 17:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 17:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 17:32	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 17:32	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 17:32	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 17:32	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 17:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 17:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 17:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 17:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 17:32	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 17:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 17:32	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 17:32	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 17:32	1
Methyl tert-butyl ether	**20**		1.0	0.74	ug/L			07/13/17 17:32	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 17:32	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 17:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 17:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 17:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 17:32	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 17:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 17:32	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 17:32	1

Client Sample ID: MW25-ROX-071017
Date Collected: 07/10/17 11:55
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-3
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			07/13/17 17:32	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 17:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 17:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 17:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 17:32	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 17:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 17:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 17:32	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:32	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 17:32	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 17:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 17:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 17:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 17:32	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 17:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 17:32	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/13/17 17:32*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 17:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/13/17 17:32*	*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		07/12/17 10:23	07/13/17 18:24	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:23	07/13/17 18:24	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:24	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
1-Methylnaphthalene	**0.063**	**J**	0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1
2-Methylnaphthalene	**0.032**	**J**	0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*58*		*33 - 138*	*07/12/17 10:23*	*07/13/17 18:24*	*1*
2-Fluorobiphenyl	*64*		*15 - 122*	*07/12/17 10:23*	*07/13/17 18:24*	*1*

Client Sample ID: MW25-ROX-071017
Date Collected: 07/10/17 11:55
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	40		19 - 130	07/12/17 10:23	07/13/17 18:24	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		07/12/17 10:23	07/20/17 15:22	1
Benzenethiol	ND	*	9.5	1.6	ug/L		07/12/17 10:23	07/20/17 15:22	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:23	07/20/17 15:22	1
Benzyl alcohol	ND	*	9.5	1.9	ug/L		07/12/17 10:23	07/20/17 15:22	1
Bis(2-chloroethoxy)methane	ND	*	9.5	0.66	ug/L		07/12/17 10:23	07/20/17 15:22	1
Bis(2-chloroethyl)ether	ND	*	9.5	0.71	ug/L		07/12/17 10:23	07/20/17 15:22	1
bis (2-chloroisopropyl) ether	ND	*	9.5	0.77	ug/L		07/12/17 10:23	07/20/17 15:22	1
Bis(2-ethylhexyl) phthalate	**6.3**	**J ***	9.5	2.2	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Bromophenyl phenyl ether	ND	*	9.5	0.31	ug/L		07/12/17 10:23	07/20/17 15:22	1
Butyl benzyl phthalate	ND	*	9.5	0.66	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Chloroaniline	ND	*	9.5	3.2	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Chloro-3-methylphenol	ND	*	9.5	3.6	ug/L		07/12/17 10:23	07/20/17 15:22	1
2-Chloronaphthalene	ND	*	9.5	0.50	ug/L		07/12/17 10:23	07/20/17 15:22	1
2-Chlorophenol	ND	*	9.5	2.1	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Chlorophenyl phenyl ether	ND	*	9.5	1.9	ug/L		07/12/17 10:23	07/20/17 15:22	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		07/12/17 10:23	07/20/17 15:22	1
Dibenzofuran	ND	*	9.5	0.50	ug/L		07/12/17 10:23	07/20/17 15:22	1
3,3'-Dichlorobenzidine	ND	*	9.5	2.5	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4-Dichlorophenol	ND	*	9.5	2.9	ug/L		07/12/17 10:23	07/20/17 15:22	1
Diethyl phthalate	ND	*	9.5	0.67	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4-Dimethylphenol	ND	*	9.5	3.3	ug/L		07/12/17 10:23	07/20/17 15:22	1
Dimethyl phthalate	ND	*	9.5	0.57	ug/L		07/12/17 10:23	07/20/17 15:22	1
Di-n-butyl phthalate	ND	*	9.5	2.6	ug/L		07/12/17 10:23	07/20/17 15:22	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4-Dinitrotoluene	ND	*	9.5	1.8	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,6-Dinitrotoluene	ND	*	9.5	1.8	ug/L		07/12/17 10:23	07/20/17 15:22	1
Di-n-octyl phthalate	ND	*	9.5	0.42	ug/L		07/12/17 10:23	07/20/17 15:22	1
1,4-Dioxane	ND	*	9.5	0.95	ug/L		07/12/17 10:23	07/20/17 15:22	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	*	9.5	0.95	ug/L		07/12/17 10:23	07/20/17 15:22	1
Hexachlorobenzene	ND	*	9.5	0.24	ug/L		07/12/17 10:23	07/20/17 15:22	1
Hexachlorocyclopentadiene	ND	*	19	2.5	ug/L		07/12/17 10:23	07/20/17 15:22	1
Hexachloroethane	ND	*	9.5	4.0	ug/L		07/12/17 10:23	07/20/17 15:22	1
Indene	ND	*	9.5	0.95	ug/L		07/12/17 10:23	07/20/17 15:22	1
Isophorone	ND	*	9.5	0.54	ug/L		07/12/17 10:23	07/20/17 15:22	1
2-Methylphenol	ND	*	9.5	1.7	ug/L		07/12/17 10:23	07/20/17 15:22	1
3 & 4 Methylphenol	ND	*	19	0.99	ug/L		07/12/17 10:23	07/20/17 15:22	1
2-Nitroaniline	ND	*	9.5	2.1	ug/L		07/12/17 10:23	07/20/17 15:22	1
3-Nitroaniline	ND	*	9.5	1.7	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Nitroaniline	ND	*	9.5	2.4	ug/L		07/12/17 10:23	07/20/17 15:22	1
Nitrobenzene	ND	*	9.5	0.52	ug/L		07/12/17 10:23	07/20/17 15:22	1
2-Nitrophenol	ND	*	9.5	0.62	ug/L		07/12/17 10:23	07/20/17 15:22	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		07/12/17 10:23	07/20/17 15:22	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		07/12/17 10:23	07/20/17 15:22	1

Client Sample ID: MW25-ROX-071017
Date Collected: 07/10/17 11:55
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-3
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		07/12/17 10:23	07/20/17 15:22	1
N-Nitrosodiphenylamine	ND	*	9.5	0.45	ug/L		07/12/17 10:23	07/20/17 15:22	1
Pentachlorophenol	ND	*	19	1.7	ug/L		07/12/17 10:23	07/20/17 15:22	1
Phenol	ND	*	9.5	2.5	ug/L		07/12/17 10:23	07/20/17 15:22	1
Pyridine	ND	*	9.5	3.1	ug/L		07/12/17 10:23	07/20/17 15:22	1
Quinoline	ND	*	9.5	5.7	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4,5-Trichlorophenol	ND	*	9.5	3.5	ug/L		07/12/17 10:23	07/20/17 15:22	1
2,4,6-Trichlorophenol	ND	*	9.5	3.3	ug/L		07/12/17 10:23	07/20/17 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*	*	*34 - 120*	*07/12/17 10:23*	*07/20/17 15:22*	*1*
2-Fluorophenol	*22*	*	*10 - 120*	*07/12/17 10:23*	*07/20/17 15:22*	*1*
Nitrobenzene-d5	*41*	*	*27 - 120*	*07/12/17 10:23*	*07/20/17 15:22*	*1*
Phenol-d5	*6*	X *	*10 - 120*	*07/12/17 10:23*	*07/20/17 15:22*	*1*
Terphenyl-d14	*40*	X *	*53 - 125*	*07/12/17 10:23*	*07/20/17 15:22*	*1*
2,4,6-Tribromophenol	*113*	*	*15 - 135*	*07/12/17 10:23*	*07/20/17 15:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	H UJ	9.6	3.7	ug/L		07/27/17 16:17	07/31/17 17:23	1
Benzenethiol	ND	H *	9.6	1.6	ug/L		07/27/17 16:17	07/31/17 17:23	1
Benzoic acid	ND	H *	29	7.0	ug/L		07/27/17 16:17	07/31/17 17:23	1
Benzyl alcohol	ND	H *	9.6	1.9	ug/L		07/27/17 16:17	07/31/17 17:23	1
Bis(2-chloroethoxy)methane	ND	H	9.6	0.67	ug/L		07/27/17 16:17	07/31/17 17:23	1
Bis(2-chloroethyl)ether	ND	H	9.6	0.71	ug/L		07/27/17 16:17	07/31/17 17:23	1
bis (2-chloroisopropyl) ether	ND	H	9.6	0.78	ug/L		07/27/17 16:17	07/31/17 17:23	1
Bis(2-ethylhexyl) phthalate	ND	H	9.6	2.2	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Bromophenyl phenyl ether	ND	H	9.6	0.31	ug/L		07/27/17 16:17	07/31/17 17:23	1
Butyl benzyl phthalate	ND	H	9.6	0.67	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Chloroaniline	ND	H	9.6	3.3	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Chloro-3-methylphenol	ND	H	9.6	3.7	ug/L		07/27/17 16:17	07/31/17 17:23	1
2-Chloronaphthalene	ND	H	9.6	0.50	ug/L		07/27/17 16:17	07/31/17 17:23	1
2-Chlorophenol	ND	H *	9.6	2.1	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Chlorophenyl phenyl ether	ND	H	9.6	1.9	ug/L		07/27/17 16:17	07/31/17 17:23	1
Dibenz[a,h]acridine	ND	H	9.6	2.9	ug/L		07/27/17 16:17	07/31/17 17:23	1
Dibenzofuran	ND	H	9.6	0.50	ug/L		07/27/17 16:17	07/31/17 17:23	1
3,3'-Dichlorobenzidine	ND	H	9.6	2.5	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4-Dichlorophenol	ND	H	9.6	2.9	ug/L		07/27/17 16:17	07/31/17 17:23	1
Diethyl phthalate	ND	H	9.6	0.68	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4-Dimethylphenol	ND	H	9.6	3.4	ug/L		07/27/17 16:17	07/31/17 17:23	1
Dimethyl phthalate	ND	H	9.6	0.58	ug/L		07/27/17 16:17	07/31/17 17:23	1
Di-n-butyl phthalate	ND	H	9.6	2.6	ug/L		07/27/17 16:17	07/31/17 17:23	1
4,6-Dinitro-ortho-cresol	ND	H	9.6	1.9	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4-Dinitrophenol	ND	H	29	3.3	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4-Dinitrotoluene	ND	H	9.6	1.8	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,6-Dinitrotoluene	ND	H	9.6	1.8	ug/L		07/27/17 16:17	07/31/17 17:23	1
Di-n-octyl phthalate	ND	H	9.6	0.42	ug/L		07/27/17 16:17	07/31/17 17:23	1
1,4-Dioxane	ND	H	9.6	0.96	ug/L		07/27/17 16:17	07/31/17 17:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	9.6	0.96	ug/L		07/27/17 16:17	07/31/17 17:23	1

Client Sample ID: MW25-ROX-071017
Date Collected: 07/10/17 11:55
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-3
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	9.6	0.24	ug/L		07/27/17 16:17	07/31/17 17:23	1
Hexachlorocyclopentadiene	ND	H	19	2.5	ug/L		07/27/17 16:17	07/31/17 17:23	1
Hexachloroethane	ND	H	9.6	4.1	ug/L		07/27/17 16:17	07/31/17 17:23	1
Indene	ND	H	9.6	0.96	ug/L		07/27/17 16:17	07/31/17 17:23	1
Isophorone	ND	H	9.6	0.55	ug/L		07/27/17 16:17	07/31/17 17:23	1
2-Methylphenol	ND	H	9.6	1.7	ug/L		07/27/17 16:17	07/31/17 17:23	1
3 & 4 Methylphenol	ND	H	19	1.0	ug/L		07/27/17 16:17	07/31/17 17:23	1
2-Nitroaniline	ND	H	9.6	2.1	ug/L		07/27/17 16:17	07/31/17 17:23	1
3-Nitroaniline	ND	H	9.6	1.7	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Nitroaniline	ND	H	9.6	2.4	ug/L		07/27/17 16:17	07/31/17 17:23	1
Nitrobenzene	ND	H	9.6	0.53	ug/L		07/27/17 16:17	07/31/17 17:23	1
2-Nitrophenol	ND	H *	9.6	0.63	ug/L		07/27/17 16:17	07/31/17 17:23	1
4-Nitrophenol	ND	H	9.6	2.0	ug/L		07/27/17 16:17	07/31/17 17:23	1
N-Nitrosodimethylamine	ND	H	9.6	3.4	ug/L		07/27/17 16:17	07/31/17 17:23	1
N-Nitrosodi-n-propylamine	ND	H	9.6	3.2	ug/L		07/27/17 16:17	07/31/17 17:23	1
N-Nitrosodiphenylamine	ND	H	9.6	0.45	ug/L		07/27/17 16:17	07/31/17 17:23	1
Pentachlorophenol	ND	H	19	1.7	ug/L		07/27/17 16:17	07/31/17 17:23	1
Phenol	ND	H *	9.6	2.5	ug/L		07/27/17 16:17	07/31/17 17:23	1
Pyridine	ND	H	9.6	3.1	ug/L		07/27/17 16:17	07/31/17 17:23	1
Quinoline	ND	H	9.6	5.8	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4,5-Trichlorophenol	ND	H	9.6	3.6	ug/L		07/27/17 16:17	07/31/17 17:23	1
2,4,6-Trichlorophenol	ND	H	9.6	3.4	ug/L		07/27/17 16:17	07/31/17 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 120*	*07/27/17 16:17*	*07/31/17 17:23*	*1*
2-Fluorophenol	*29*		*10 - 120*	*07/27/17 16:17*	*07/31/17 17:23*	*1*
Nitrobenzene-d5	*58*		*27 - 120*	*07/27/17 16:17*	*07/31/17 17:23*	*1*
Phenol-d5	*48*		*10 - 120*	*07/27/17 16:17*	*07/31/17 17:23*	*1*
Terphenyl-d14	*69*		*53 - 125*	*07/27/17 16:17*	*07/31/17 17:23*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*07/27/17 16:17*	*07/31/17 17:23*	*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		07/14/17 10:54	07/22/17 00:31	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/14/17 10:54	07/22/17 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*51 - 149*	*07/14/17 10:54*	*07/22/17 00:31*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: MW8-ROX-071017
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			07/13/17 19:49	1000
Acrolein	ND		20000	10000	ug/L			07/13/17 19:49	1000
Acrylonitrile	ND		10000	2800	ug/L			07/13/17 19:49	1000
Benzene	**870000**		5000	1900	ug/L			07/18/17 20:56	5000
Bromobenzene	ND		1000	540	ug/L			07/13/17 19:49	1000
Bromochloromethane	ND		1000	520	ug/L			07/13/17 19:49	1000
Bromodichloromethane	ND		1000	500	ug/L			07/13/17 19:49	1000
Bromoform	ND		5000	710	ug/L			07/13/17 19:49	1000
Bromomethane	ND		1000	980	ug/L			07/13/17 19:49	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			07/13/17 19:49	1000
Carbon disulfide	ND		1000	500	ug/L			07/13/17 19:49	1000
Carbon tetrachloride	ND		1000	500	ug/L			07/13/17 19:49	1000
Chlorobenzene	ND		1000	500	ug/L			07/13/17 19:49	1000
Dibromochloromethane	ND		1000	500	ug/L			07/13/17 19:49	1000
Chloroethane	ND		1000	760	ug/L			07/13/17 19:49	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			07/13/17 19:49	1000
Chloroform	ND		1000	600	ug/L			07/13/17 19:49	1000
1-Chlorohexane	ND		1000	700	ug/L			07/13/17 19:49	1000
Chloromethane	ND		1000	830	ug/L			07/13/17 19:49	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			07/13/17 19:49	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			07/13/17 19:49	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			07/13/17 19:49	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			07/13/17 19:49	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			07/13/17 19:49	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			07/13/17 19:49	1000
1,1-Dichloroethane	ND		1000	500	ug/L			07/13/17 19:49	1000
1,2-Dichloroethane	ND		1000	500	ug/L			07/13/17 19:49	1000
1,1-Dichloroethene	ND		1000	500	ug/L			07/13/17 19:49	1000
1,2-Dichloropropane	ND		1000	500	ug/L			07/13/17 19:49	1000
1,3-Dichloropropane	ND		1000	500	ug/L			07/13/17 19:49	1000
2,2-Dichloropropane	ND		1000	500	ug/L			07/13/17 19:49	1000
1,1-Dichloropropene	ND		1000	500	ug/L			07/13/17 19:49	1000
Ethylbenzene	ND		1000	500	ug/L			07/13/17 19:49	1000
Ethyl methacrylate	ND		1000	600	ug/L			07/13/17 19:49	1000
Hexachlorobutadiene	ND		5000	900	ug/L			07/13/17 19:49	1000
2-Hexanone	ND		25000	3100	ug/L			07/13/17 19:49	1000
Isopropylbenzene	ND		1000	530	ug/L			07/13/17 19:49	1000
Methylene bromide	ND		5000	590	ug/L			07/13/17 19:49	1000
Methylene Chloride	ND		5000	3000	ug/L			07/13/17 19:49	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			07/13/17 19:49	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			07/13/17 19:49	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			07/13/17 19:49	1000
Naphthalene	ND		1000	1000	ug/L			07/13/17 19:49	1000
n-Butylbenzene	ND		1000	760	ug/L			07/13/17 19:49	1000
N-Propylbenzene	ND		1000	690	ug/L			07/13/17 19:49	1000
o-Chlorotoluene	ND		1000	570	ug/L			07/13/17 19:49	1000
o-Xylene	ND		5000	600	ug/L			07/13/17 19:49	1000
p-Chlorotoluene	ND		1000	560	ug/L			07/13/17 19:49	1000
p-Isopropyltoluene	ND		1000	710	ug/L			07/13/17 19:49	1000

Client Sample ID: MW8-ROX-071017
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			07/13/17 19:49	1000
Styrene	ND		1000	1000	ug/L			07/13/17 19:49	1000
tert-Butylbenzene	ND		1000	630	ug/L			07/13/17 19:49	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			07/13/17 19:49	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			07/13/17 19:49	1000
Tetrachloroethene	ND		1000	580	ug/L			07/13/17 19:49	1000
Toluene	ND		1000	700	ug/L			07/13/17 19:49	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			07/13/17 19:49	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			07/13/17 19:49	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			07/13/17 19:49	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			07/13/17 19:49	1000
1,1,1-Trichloroethane	ND		1000	500	ug/L			07/13/17 19:49	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			07/13/17 19:49	1000
Trichloroethene	ND		1000	500	ug/L			07/13/17 19:49	1000
Trichlorofluoromethane	ND		1000	520	ug/L			07/13/17 19:49	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			07/13/17 19:49	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			07/13/17 19:49	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			07/13/17 19:49	1000
Vinyl acetate	ND		25000	2000	ug/L			07/13/17 19:49	1000
Vinyl chloride	ND		1000	500	ug/L			07/13/17 19:49	1000
Xylenes, Total	ND		10000	1600	ug/L			07/13/17 19:49	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 19:49*	*1000*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/18/17 20:56*	*5000*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 19:49*	*1000*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 20:56*	*5000*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 19:49*	*1000*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 20:56*	*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		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:23	07/13/17 18:47	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 18:47	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
1-Methylnaphthalene	**9.2**		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1
2-Methylnaphthalene	**5.2**		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 18:47	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: MW8-ROX-071017
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	29	X	33 - 138	07/12/17 10:23	07/13/17 18:47	1
2-Fluorobiphenyl	57		15 - 122	07/12/17 10:23	07/13/17 18:47	1
Nitrobenzene-d5	52		19 - 130	07/12/17 10:23	07/13/17 18:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 19:19	1
Benzenethiol	ND	* UJ	9.6	1.6	ug/L		07/12/17 10:23	07/14/17 19:19	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:23	07/14/17 19:19	1
Benzyl alcohol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 19:19	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 19:19	1
Bis(2-chloroethyl)ether	ND	* UJ	9.6	0.71	ug/L		07/12/17 10:23	07/14/17 19:19	1
bis (2-chloroisopropyl) ether	ND		9.6	0.77	ug/L		07/12/17 10:23	07/14/17 19:19	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.2	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/12/17 10:23	07/14/17 19:19	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Chloroaniline	ND		9.6	3.2	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 19:19	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 19:19	1
2-Chlorophenol	ND	*	9.6	2.1	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/12/17 10:23	07/14/17 19:19	1
Dibenz[a,h]acridine	ND	*	9.6	2.9	ug/L		07/12/17 10:23	07/14/17 19:19	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 19:19	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/12/17 10:23	07/14/17 19:19	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4-Dimethylphenol	**6.7**	**J**	9.6	3.3	ug/L		07/12/17 10:23	07/14/17 19:19	1
Dimethyl phthalate	ND		9.6	0.57	ug/L		07/12/17 10:23	07/14/17 19:19	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/12/17 10:23	07/14/17 19:19	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 19:19	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/12/17 10:23	07/14/17 19:19	1
1,4-Dioxane	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 19:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/12/17 10:23	07/14/17 19:19	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/12/17 10:23	07/14/17 19:19	1
Hexachlorocyclopentadiene	ND	* UJ	19	2.5	ug/L		07/12/17 10:23	07/14/17 19:19	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/12/17 10:23	07/14/17 19:19	1
Indene	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 19:19	1
Isophorone	ND		9.6	0.54	ug/L		07/12/17 10:23	07/14/17 19:19	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 19:19	1
3 & 4 Methylphenol	**2.3**	**J**	19	0.99	ug/L		07/12/17 10:23	07/14/17 19:19	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/12/17 10:23	07/14/17 19:19	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/12/17 10:23	07/14/17 19:19	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/12/17 10:23	07/14/17 19:19	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/12/17 10:23	07/14/17 19:19	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/12/17 10:23	07/14/17 19:19	1

Client Sample ID: MW8-ROX-071017
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 19:19	1
N-Nitrosodi-n-propylamine	ND		9.6	3.2	ug/L		07/12/17 10:23	07/14/17 19:19	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/12/17 10:23	07/14/17 19:19	1
Pentachlorophenol	**1.8**	**J**	19	1.7	ug/L		07/12/17 10:23	07/14/17 19:19	1
Pyridine	ND	*	9.6	3.1	ug/L		07/12/17 10:23	07/14/17 19:19	1
Quinoline	ND		9.6	5.7	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/12/17 10:23	07/14/17 19:19	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*07/12/17 10:23*	*07/14/17 19:19*	*1*
2-Fluorophenol	*30*		*10 - 120*	*07/12/17 10:23*	*07/14/17 19:19*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*07/12/17 10:23*	*07/14/17 19:19*	*1*
Phenol-d5	*48*		*10 - 120*	*07/12/17 10:23*	*07/14/17 19:19*	*1*
Terphenyl-d14	*36*	*X*	*53 - 125*	*07/12/17 10:23*	*07/14/17 19:19*	*1*
2,4,6-Tribromophenol	*99*		*15 - 135*	*07/12/17 10:23*	*07/14/17 19:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	140		48	12	ug/L		07/12/17 10:23	07/17/17 14:16	5

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		07/14/17 10:54	07/22/17 00:50	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*134*		*51 - 149*	*07/14/17 10:54*	*07/22/17 00:50*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: TB-ROX-071017-8260
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-5
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			07/17/17 16:20	1
Acrolein	ND		20	10	ug/L			07/17/17 16:20	1
Acrylonitrile	ND		10	2.8	ug/L			07/17/17 16:20	1
Benzene	ND		1.0	0.38	ug/L			07/17/17 16:20	1
Bromobenzene	ND		1.0	0.54	ug/L			07/17/17 16:20	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/17/17 16:20	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Bromoform	ND		5.0	0.71	ug/L			07/17/17 16:20	1
Bromomethane	ND		1.0	0.98	ug/L			07/17/17 16:20	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/17/17 16:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Chloroethane	ND		1.0	0.76	ug/L			07/17/17 16:20	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/17/17 16:20	1
Chloroform	ND		1.0	0.60	ug/L			07/17/17 16:20	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/17/17 16:20	1
Chloromethane	ND		1.0	0.83	ug/L			07/17/17 16:20	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 16:20	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/17/17 16:20	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/17/17 16:20	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/17/17 16:20	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/17/17 16:20	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/17/17 16:20	1
2-Hexanone	ND		25	3.1	ug/L			07/17/17 16:20	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/17/17 16:20	1
Methylene bromide	ND		5.0	0.59	ug/L			07/17/17 16:20	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/17/17 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/17/17 16:20	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/17/17 16:20	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/17/17 16:20	1
Naphthalene	ND		1.0	1.0	ug/L			07/17/17 16:20	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/17/17 16:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/17 16:20	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/17/17 16:20	1
o-Xylene	ND		5.0	0.60	ug/L			07/17/17 16:20	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/17/17 16:20	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/17/17 16:20	1

Client Sample ID: TB-ROX-071017-8260
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-5
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			07/17/17 16:20	1
Styrene	ND		1.0	1.0	ug/L			07/17/17 16:20	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/17/17 16:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/17/17 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/17/17 16:20	1
Toluene	ND		1.0	0.70	ug/L			07/17/17 16:20	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 16:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/17/17 16:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/17/17 16:20	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/17/17 16:20	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/17/17 16:20	1
Trichloroethene	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/17/17 16:20	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/17/17 16:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/17/17 16:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/17/17 16:20	1
Vinyl acetate	ND		25	2.0	ug/L			07/17/17 16:20	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/17/17 16:20	1
Xylenes, Total	ND		10	1.6	ug/L			07/17/17 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/17/17 16:20*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*07/17/17 16:20*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/17/17 16:20*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: TB-ROX-071017-8011
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-6
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		07/14/17 10:54	07/22/17 01:08	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*137*		*51 - 149*	*07/14/17 10:54*	*07/22/17 01:08*	*1*

Client Sample ID: MW16-ROX-071017-EB

Date Collected: 07/10/17 10:15
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-7

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			07/18/17 15:26	1
Acrolein	ND		20	10	ug/L			07/18/17 15:26	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 15:26	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 15:26	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 15:26	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 15:26	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 15:26	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 15:26	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 15:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 15:26	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 15:26	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 15:26	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 15:26	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 15:26	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 15:26	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 15:26	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 15:26	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 15:26	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 15:26	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 15:26	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 15:26	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 15:26	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 15:26	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 15:26	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 15:26	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 15:26	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 15:26	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 15:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 15:26	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 15:26	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 15:26	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 15:26	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 15:26	1

Client Sample ID: MW16-ROX-071017-EB
Date Collected: 07/10/17 10:15
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/18/17 15:26	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 15:26	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 15:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 15:26	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 15:26	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 15:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 15:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 15:26	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 15:26	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 15:26	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 15:26	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 15:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 15:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 15:26	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 15:26	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 15:26	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 15:26*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 15:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 15:26*	*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		07/12/17 10:23	07/13/17 19:10	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Chrysene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Fluoranthene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:23	07/13/17 19:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:10	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
Pyrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*66*		*33 - 138*	*07/12/17 10:23*	*07/13/17 19:10*	*1*
2-Fluorobiphenyl	*57*		*15 - 122*	*07/12/17 10:23*	*07/13/17 19:10*	*1*

Client Sample ID: MW16-ROX-071017-EB
Date Collected: 07/10/17 10:15
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	45		19 - 130	07/12/17 10:23	07/13/17 19:10	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		07/12/17 10:23	07/14/17 19:49	1
Benzenethiol	ND	*	10	1.7	ug/L		07/12/17 10:23	07/14/17 19:49	1
Benzoic acid	ND	*	30	7.3	ug/L		07/12/17 10:23	07/14/17 19:49	1
Benzyl alcohol	ND	*	10	2.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/12/17 10:23	07/14/17 19:49	1
Bis(2-chloroethyl)ether	ND	*	10	0.74	ug/L		07/12/17 10:23	07/14/17 19:49	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/12/17 10:23	07/14/17 19:49	1
Bis(2-ethylhexyl) phthalate	14		10	2.3	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/12/17 10:23	07/14/17 19:49	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Chloroaniline	ND		10	3.4	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/12/17 10:23	07/14/17 19:49	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/12/17 10:23	07/14/17 19:49	1
2-Chlorophenol	ND	*	10	2.2	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Dibenz[a,h]acridine	ND	*	10	3.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Dibenzofuran	ND		10	0.52	ug/L		07/12/17 10:23	07/14/17 19:49	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Diethyl phthalate	ND		10	0.70	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 19:49	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/12/17 10:23	07/14/17 19:49	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/12/17 10:23	07/14/17 19:49	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:23	07/14/17 19:49	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/12/17 10:23	07/14/17 19:49	1
1,4-Dioxane	ND	*	10	1.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/12/17 10:23	07/14/17 19:49	1
Hexachlorocyclopentadiene	ND	*	20	2.6	ug/L		07/12/17 10:23	07/14/17 19:49	1
Hexachloroethane	ND		10	4.2	ug/L		07/12/17 10:23	07/14/17 19:49	1
Indene	ND	*	10	1.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
Isophorone	ND		10	0.57	ug/L		07/12/17 10:23	07/14/17 19:49	1
2-Methylphenol	ND		10	1.8	ug/L		07/12/17 10:23	07/14/17 19:49	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
2-Nitroaniline	ND		10	2.2	ug/L		07/12/17 10:23	07/14/17 19:49	1
3-Nitroaniline	ND		10	1.8	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Nitroaniline	ND		10	2.5	ug/L		07/12/17 10:23	07/14/17 19:49	1
Nitrobenzene	ND		10	0.55	ug/L		07/12/17 10:23	07/14/17 19:49	1
2-Nitrophenol	ND		10	0.65	ug/L		07/12/17 10:23	07/14/17 19:49	1
4-Nitrophenol	ND		10	2.1	ug/L		07/12/17 10:23	07/14/17 19:49	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 19:49	1

Client Sample ID: MW16-ROX-071017-EB
Date Collected: 07/10/17 10:15
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-7
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		07/12/17 10:23	07/14/17 19:49	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/12/17 10:23	07/14/17 19:49	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:23	07/14/17 19:49	1
Phenol	ND		10	2.6	ug/L		07/12/17 10:23	07/14/17 19:49	1
Pyridine	ND	*	10	3.2	ug/L		07/12/17 10:23	07/14/17 19:49	1
Quinoline	ND		10	6.0	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/12/17 10:23	07/14/17 19:49	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*34 - 120*	*07/12/17 10:23*	*07/14/17 19:49*	*1*
2-Fluorophenol	*24*		*10 - 120*	*07/12/17 10:23*	*07/14/17 19:49*	*1*
Nitrobenzene-d5	*53*		*27 - 120*	*07/12/17 10:23*	*07/14/17 19:49*	*1*
Phenol-d5	*38*		*10 - 120*	*07/12/17 10:23*	*07/14/17 19:49*	*1*
Terphenyl-d14	*61*		*53 - 125*	*07/12/17 10:23*	*07/14/17 19:49*	*1*
2,4,6-Tribromophenol	*77*		*15 - 135*	*07/12/17 10:23*	*07/14/17 19:49*	*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		07/14/17 10:54	07/22/17 01:27	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*137*		*51 - 149*	*07/14/17 10:54*	*07/22/17 01:27*	*1*

Client Sample ID: MW16-ROX-071017
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-8
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			07/13/17 19:21	1
Acrolein	ND		20	10	ug/L			07/13/17 19:21	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 19:21	1
Benzene	0.39	J	1.0	0.38	ug/L			07/13/17 19:21	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 19:21	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 19:21	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 19:21	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 19:21	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 19:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 19:21	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 19:21	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 19:21	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 19:21	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 19:21	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 19:21	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 19:21	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 19:21	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 19:21	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 19:21	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 19:21	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 19:21	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 19:21	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 19:21	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 19:21	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 19:21	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 19:21	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 19:21	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 19:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 19:21	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 19:21	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 19:21	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 19:21	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 19:21	1

Client Sample ID: MW16-ROX-071017
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-8
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			07/13/17 19:21	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 19:21	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 19:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 19:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 19:21	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 19:21	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 19:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 19:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 19:21	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 19:21	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 19:21	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 19:21	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 19:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 19:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 19:21	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 19:21	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 19:21	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/13/17 19:21*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/13/17 19:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/13/17 19:21*	*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		07/12/17 10:23	07/13/17 19:33	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:23	07/13/17 19:33	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 19:33	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*101*		*33 - 138*	*07/12/17 10:23*	*07/13/17 19:33*	*1*
2-Fluorobiphenyl	*70*		*15 - 122*	*07/12/17 10:23*	*07/13/17 19:33*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: MW16-ROX-071017
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-8
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	59		19 - 130	07/12/17 10:23	07/13/17 19:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 20:20	1
Benzenethiol	ND	* UJ	9.6	1.6	ug/L		07/12/17 10:23	07/14/17 20:20	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:23	07/14/17 20:20	1
Benzyl alcohol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 20:20	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 20:20	1
Bis(2-chloroethyl)ether	ND	* UJ	9.6	0.71	ug/L		07/12/17 10:23	07/14/17 20:20	1
bis (2-chloroisopropyl) ether	ND		9.6	0.78	ug/L		07/12/17 10:23	07/14/17 20:20	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.2	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/12/17 10:23	07/14/17 20:20	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Chloroaniline	ND		9.6	3.3	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/12/17 10:23	07/14/17 20:20	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 20:20	1
2-Chlorophenol	ND	*	9.6	2.1	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/12/17 10:23	07/14/17 20:20	1
Dibenz[a,h]acridine	ND	*	9.6	2.9	ug/L		07/12/17 10:23	07/14/17 20:20	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/12/17 10:23	07/14/17 20:20	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/12/17 10:23	07/14/17 20:20	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4-Dimethylphenol	ND		9.6	3.4	ug/L		07/12/17 10:23	07/14/17 20:20	1
Dimethyl phthalate	ND		9.6	0.58	ug/L		07/12/17 10:23	07/14/17 20:20	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/12/17 10:23	07/14/17 20:20	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4-Dinitrophenol	ND	*	29	3.3	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/12/17 10:23	07/14/17 20:20	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/12/17 10:23	07/14/17 20:20	1
1,4-Dioxane	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 20:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/12/17 10:23	07/14/17 20:20	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/12/17 10:23	07/14/17 20:20	1
Hexachlorocyclopentadiene	ND	* UJ	19	2.5	ug/L		07/12/17 10:23	07/14/17 20:20	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/12/17 10:23	07/14/17 20:20	1
Indene	ND	*	9.6	0.96	ug/L		07/12/17 10:23	07/14/17 20:20	1
Isophorone	ND		9.6	0.55	ug/L		07/12/17 10:23	07/14/17 20:20	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 20:20	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/12/17 10:23	07/14/17 20:20	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/12/17 10:23	07/14/17 20:20	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/12/17 10:23	07/14/17 20:20	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/12/17 10:23	07/14/17 20:20	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/12/17 10:23	07/14/17 20:20	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/12/17 10:23	07/14/17 20:20	1
N-Nitrosodimethylamine	ND		9.6	3.4	ug/L		07/12/17 10:23	07/14/17 20:20	1

Client Sample ID: MW16-ROX-071017
Date Collected: 07/10/17 11:05
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-8
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		07/12/17 10:23	07/14/17 20:20	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/12/17 10:23	07/14/17 20:20	1
Pentachlorophenol	ND		19	1.7	ug/L		07/12/17 10:23	07/14/17 20:20	1
Phenol	ND		9.6	2.5	ug/L		07/12/17 10:23	07/14/17 20:20	1
Pyridine	ND	*	9.6	3.1	ug/L		07/12/17 10:23	07/14/17 20:20	1
Quinoline	ND		9.6	5.8	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/12/17 10:23	07/14/17 20:20	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		07/12/17 10:23	07/14/17 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*07/12/17 10:23*	*07/14/17 20:20*	*1*
2-Fluorophenol	*20*		*10 - 120*	*07/12/17 10:23*	*07/14/17 20:20*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*07/12/17 10:23*	*07/14/17 20:20*	*1*
Phenol-d5	*46*		*10 - 120*	*07/12/17 10:23*	*07/14/17 20:20*	*1*
Terphenyl-d14	*88*		*53 - 125*	*07/12/17 10:23*	*07/14/17 20:20*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*07/12/17 10:23*	*07/14/17 20:20*	*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		0.030	0.0056	ug/L		07/14/17 10:54	07/22/17 01:45	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/14/17 10:54	07/22/17 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*130*		*51 - 149*	*07/14/17 10:54*	*07/22/17 01:45*	*1*

Client Sample ID: P54-ROX-071017
Date Collected: 07/10/17 12:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-9
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			07/13/17 18:54	1
Acrolein	ND		20	10	ug/L			07/13/17 18:54	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 18:54	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 18:54	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 18:54	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 18:54	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 18:54	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 18:54	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 18:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 18:54	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 18:54	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 18:54	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 18:54	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 18:54	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 18:54	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 18:54	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 18:54	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 18:54	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 18:54	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 18:54	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 18:54	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 18:54	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 18:54	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 18:54	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 18:54	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 18:54	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 18:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 18:54	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 18:54	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 18:54	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 18:54	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 18:54	1

Client Sample ID: P54-ROX-071017
Date Collected: 07/10/17 12:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-9
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			07/13/17 18:54	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 18:54	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 18:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 18:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 18:54	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 18:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 18:54	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:54	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 18:54	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 18:54	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 18:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 18:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 18:54	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 18:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 18:54	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/13/17 18:54*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/13/17 18:54*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 18:54*	*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		07/12/17 10:23	07/13/17 19:56	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Chrysene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Fluoranthene	**0.041**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:23	07/13/17 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 19:56	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
Pyrene	**0.031**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
1-Methylnaphthalene	**0.044**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1
2-Methylnaphthalene	**0.055**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*33 - 138*	*07/12/17 10:23*	*07/13/17 19:56*	*1*
2-Fluorobiphenyl	*77*		*15 - 122*	*07/12/17 10:23*	*07/13/17 19:56*	*1*

Client Sample ID: P54-ROX-071017
Date Collected: 07/10/17 12:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-9
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		19 - 130	07/12/17 10:23	07/13/17 19:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.8	ug/L		07/12/17 10:23	07/14/17 20:50	1
Benzenethiol	ND	* UJ	9.9	1.7	ug/L		07/12/17 10:23	07/14/17 20:50	1
Benzoic acid	ND	*	30	7.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
Benzyl alcohol	ND	*	9.9	2.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/12/17 10:23	07/14/17 20:50	1
Bis(2-chloroethyl)ether	ND	* UJ	9.9	0.73	ug/L		07/12/17 10:23	07/14/17 20:50	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/12/17 10:23	07/14/17 20:50	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/12/17 10:23	07/14/17 20:50	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/12/17 10:23	07/14/17 20:50	1
2-Chloronaphthalene	ND		9.9	0.52	ug/L		07/12/17 10:23	07/14/17 20:50	1
2-Chlorophenol	ND	*	9.9	2.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
Dibenz[a,h]acridine	ND	*	9.9	3.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
Dibenzofuran	ND		9.9	0.52	ug/L		07/12/17 10:23	07/14/17 20:50	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/12/17 10:23	07/14/17 20:50	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/12/17 10:23	07/14/17 20:50	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/12/17 10:23	07/14/17 20:50	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/12/17 10:23	07/14/17 20:50	1
Di-n-octyl phthalate	ND		9.9	0.44	ug/L		07/12/17 10:23	07/14/17 20:50	1
1,4-Dioxane	ND	*	9.9	0.99	ug/L		07/12/17 10:23	07/14/17 20:50	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/12/17 10:23	07/14/17 20:50	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/12/17 10:23	07/14/17 20:50	1
Hexachlorocyclopentadiene	ND	* UJ	20	2.6	ug/L		07/12/17 10:23	07/14/17 20:50	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
Indene	ND	*	9.9	0.99	ug/L		07/12/17 10:23	07/14/17 20:50	1
Isophorone	ND		9.9	0.57	ug/L		07/12/17 10:23	07/14/17 20:50	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/12/17 10:23	07/14/17 20:50	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/12/17 10:23	07/14/17 20:50	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/12/17 10:23	07/14/17 20:50	1
Nitrobenzene	ND		9.9	0.55	ug/L		07/12/17 10:23	07/14/17 20:50	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/12/17 10:23	07/14/17 20:50	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/12/17 10:23	07/14/17 20:50	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/12/17 10:23	07/14/17 20:50	1

Client Sample ID: P54-ROX-071017
Date Collected: 07/10/17 12:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-9
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		07/12/17 10:23	07/14/17 20:50	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/12/17 10:23	07/14/17 20:50	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:23	07/14/17 20:50	1
Phenol	ND		9.9	2.6	ug/L		07/12/17 10:23	07/14/17 20:50	1
Pyridine	ND	*	9.9	3.2	ug/L		07/12/17 10:23	07/14/17 20:50	1
Quinoline	ND		9.9	5.9	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/12/17 10:23	07/14/17 20:50	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/12/17 10:23	07/14/17 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 120*	*07/12/17 10:23*	*07/14/17 20:50*	*1*
2-Fluorophenol	*28*		*10 - 120*	*07/12/17 10:23*	*07/14/17 20:50*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*07/12/17 10:23*	*07/14/17 20:50*	*1*
Phenol-d5	*48*		*10 - 120*	*07/12/17 10:23*	*07/14/17 20:50*	*1*
Terphenyl-d14	*73*		*53 - 125*	*07/12/17 10:23*	*07/14/17 20:50*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*07/12/17 10:23*	*07/14/17 20:50*	*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		07/14/17 10:54	07/22/17 02:04	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*126*		*51 - 149*	*07/14/17 10:54*	*07/22/17 02:04*	*1*

Client Sample ID: MW11-ROX-071017
Date Collected: 07/10/17 14:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-10
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			07/13/17 18:27	1
Acrolein	ND		20	10	ug/L			07/13/17 18:27	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 18:27	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 18:27	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 18:27	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 18:27	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 18:27	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 18:27	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 18:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 18:27	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 18:27	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 18:27	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 18:27	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 18:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 18:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 18:27	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 18:27	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 18:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 18:27	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 18:27	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 18:27	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 18:27	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 18:27	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 18:27	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 18:27	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 18:27	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 18:27	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 18:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 18:27	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 18:27	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 18:27	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 18:27	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 18:27	1

Client Sample ID: MW11-ROX-071017
Date Collected: 07/10/17 14:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-10
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			07/13/17 18:27	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 18:27	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 18:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 18:27	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 18:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 18:27	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 18:27	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 18:27	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 18:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 18:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 18:27	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 18:27	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 18:27	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 18:27*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/13/17 18:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 18:27*	*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		07/12/17 10:23	07/13/17 20:19	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
Benzo[a]anthracene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Benzo[a]pyrene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Benzo[g,h,i]perylene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Benzo[k]fluoranthene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Chrysene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Dibenz(a,h)anthracene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Fluoranthene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:23	07/13/17 20:19	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.041	ug/L		07/12/17 10:23	07/13/17 20:19	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
Pyrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*103*		*33 - 138*	*07/12/17 10:23*	*07/13/17 20:19*	*1*
2-Fluorobiphenyl	*81*		*15 - 122*	*07/12/17 10:23*	*07/13/17 20:19*	*1*

Client Sample ID: MW11-ROX-071017
Date Collected: 07/10/17 14:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-10
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	07/12/17 10:23	07/13/17 20:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.9	ug/L		07/12/17 10:23	07/14/17 21:20	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		07/12/17 10:23	07/14/17 21:20	1
Benzoic acid	ND	*	30	7.4	ug/L		07/12/17 10:23	07/14/17 21:20	1
Benzyl alcohol	ND	*	10	2.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Bis(2-chloroethoxy)methane	ND		10	0.70	ug/L		07/12/17 10:23	07/14/17 21:20	1
Bis(2-chloroethyl)ether	ND	* UJ	10	0.75	ug/L		07/12/17 10:23	07/14/17 21:20	1
bis (2-chloroisopropyl) ether	ND		10	0.82	ug/L		07/12/17 10:23	07/14/17 21:20	1
Bis(2-ethylhexyl) phthalate	**3.0**	J J	10	2.3	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/12/17 10:23	07/14/17 21:20	1
Butyl benzyl phthalate	ND		10	0.70	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Chloroaniline	ND		10	3.4	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Chloro-3-methylphenol	ND		10	3.9	ug/L		07/12/17 10:23	07/14/17 21:20	1
2-Chloronaphthalene	ND		10	0.53	ug/L		07/12/17 10:23	07/14/17 21:20	1
2-Chlorophenol	ND	*	10	2.2	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Dibenz[a,h]acridine	ND	*	10	3.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Dibenzofuran	ND		10	0.53	ug/L		07/12/17 10:23	07/14/17 21:20	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Diethyl phthalate	ND		10	0.71	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 21:20	1
Dimethyl phthalate	ND		10	0.61	ug/L		07/12/17 10:23	07/14/17 21:20	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/12/17 10:23	07/14/17 21:20	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:23	07/14/17 21:20	1
Di-n-octyl phthalate	ND		10	0.45	ug/L		07/12/17 10:23	07/14/17 21:20	1
1,4-Dioxane	ND	*	10	1.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/12/17 10:23	07/14/17 21:20	1
Hexachlorocyclopentadiene	ND	* UJ	20	2.6	ug/L		07/12/17 10:23	07/14/17 21:20	1
Hexachloroethane	ND		10	4.3	ug/L		07/12/17 10:23	07/14/17 21:20	1
Indene	ND	*	10	1.0	ug/L		07/12/17 10:23	07/14/17 21:20	1
Isophorone	ND		10	0.58	ug/L		07/12/17 10:23	07/14/17 21:20	1
2-Methylphenol	ND		10	1.8	ug/L		07/12/17 10:23	07/14/17 21:20	1
3 & 4 Methylphenol	ND		20	1.1	ug/L		07/12/17 10:23	07/14/17 21:20	1
2-Nitroaniline	ND		10	2.2	ug/L		07/12/17 10:23	07/14/17 21:20	1
3-Nitroaniline	ND		10	1.8	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Nitroaniline	ND		10	2.5	ug/L		07/12/17 10:23	07/14/17 21:20	1
Nitrobenzene	ND		10	0.56	ug/L		07/12/17 10:23	07/14/17 21:20	1
2-Nitrophenol	ND		10	0.66	ug/L		07/12/17 10:23	07/14/17 21:20	1
4-Nitrophenol	ND		10	2.1	ug/L		07/12/17 10:23	07/14/17 21:20	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 21:20	1

Client Sample ID: MW11-ROX-071017
Date Collected: 07/10/17 14:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-10
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		07/12/17 10:23	07/14/17 21:20	1
N-Nitrosodiphenylamine	ND		10	0.48	ug/L		07/12/17 10:23	07/14/17 21:20	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:23	07/14/17 21:20	1
Phenol	ND		10	2.6	ug/L		07/12/17 10:23	07/14/17 21:20	1
Pyridine	ND	*	10	3.2	ug/L		07/12/17 10:23	07/14/17 21:20	1
Quinoline	ND		10	6.1	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/12/17 10:23	07/14/17 21:20	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/12/17 10:23	07/14/17 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*07/12/17 10:23*	*07/14/17 21:20*	*1*
2-Fluorophenol	*33*		*10 - 120*	*07/12/17 10:23*	*07/14/17 21:20*	*1*
Nitrobenzene-d5	*66*		*27 - 120*	*07/12/17 10:23*	*07/14/17 21:20*	*1*
Phenol-d5	*48*		*10 - 120*	*07/12/17 10:23*	*07/14/17 21:20*	*1*
Terphenyl-d14	*73*		*53 - 125*	*07/12/17 10:23*	*07/14/17 21:20*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*07/12/17 10:23*	*07/14/17 21:20*	*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		0.030	0.0055	ug/L		07/14/17 10:54	07/22/17 02:40	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*146*		*51 - 149*	*07/14/17 10:54*	*07/22/17 02:40*	*1*

Client Sample ID: MW27-ROX-071017
Date Collected: 07/10/17 15:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-11
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			07/13/17 17:59	1
Acrolein	ND		20	10	ug/L			07/13/17 17:59	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 17:59	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 17:59	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 17:59	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 17:59	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 17:59	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 17:59	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 17:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 17:59	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 17:59	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 17:59	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 17:59	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 17:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 17:59	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 17:59	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 17:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 17:59	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 17:59	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 17:59	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 17:59	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 17:59	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 17:59	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 17:59	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 17:59	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 17:59	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 17:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 17:59	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 17:59	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 17:59	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 17:59	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/13/17 17:59	1

Client Sample ID: MW27-ROX-071017
Date Collected: 07/10/17 15:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-11
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			07/13/17 17:59	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 17:59	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 17:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 17:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 17:59	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 17:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 17:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 17:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 17:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 17:59	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 17:59	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 17:59	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 17:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 17:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 17:59	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 17:59	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 17:59	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/13/17 17:59*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/13/17 17:59*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/13/17 17:59*	*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		07/12/17 10:23	07/13/17 20:42	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Chrysene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Fluoranthene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:23	07/13/17 20:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:23	07/13/17 20:42	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
Pyrene	ND		0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
1-Methylnaphthalene	**0.029**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1
2-Methylnaphthalene	**0.036**	**J**	0.20	0.020	ug/L		07/12/17 10:23	07/13/17 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*113*		*33 - 138*	*07/12/17 10:23*	*07/13/17 20:42*	*1*
2-Fluorobiphenyl	*77*		*15 - 122*	*07/12/17 10:23*	*07/13/17 20:42*	*1*

Client Sample ID: MW27-ROX-071017
Date Collected: 07/10/17 15:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-11
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		19 - 130	07/12/17 10:23	07/13/17 20:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.8	ug/L		07/12/17 10:23	07/17/17 13:46	1
Benzenethiol	ND	UJ	9.9	1.7	ug/L		07/12/17 10:23	07/17/17 13:46	1
Benzoic acid	ND	*	30	7.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
Benzyl alcohol	ND	*	9.9	2.0	ug/L		07/12/17 10:23	07/17/17 13:46	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/12/17 10:23	07/17/17 13:46	1
Bis(2-chloroethyl)ether	ND	* UJ	9.9	0.73	ug/L		07/12/17 10:23	07/17/17 13:46	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/12/17 10:23	07/17/17 13:46	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/12/17 10:23	07/17/17 13:46	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/12/17 10:23	07/17/17 13:46	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/12/17 10:23	07/17/17 13:46	1
2-Chlorophenol	ND	*	9.9	2.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/12/17 10:23	07/17/17 13:46	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/12/17 10:23	07/18/17 18:37	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/12/17 10:23	07/17/17 13:46	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/12/17 10:23	07/17/17 13:46	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/12/17 10:23	07/17/17 13:46	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/12/17 10:23	07/17/17 13:46	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/12/17 10:23	07/17/17 13:46	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/12/17 10:23	07/17/17 13:46	1
Di-n-octyl phthalate	ND	UJ	9.9	0.44	ug/L		07/12/17 10:23	07/17/17 13:46	1
1,4-Dioxane	ND	*	9.9	0.99	ug/L		07/12/17 10:23	07/17/17 13:46	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/12/17 10:23	07/17/17 13:46	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/12/17 10:23	07/17/17 13:46	1
Hexachlorocyclopentadiene	ND	* UJ	20	2.6	ug/L		07/12/17 10:23	07/17/17 13:46	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
Indene	ND	*	9.9	0.99	ug/L		07/12/17 10:23	07/17/17 13:46	1
Isophorone	ND		9.9	0.56	ug/L		07/12/17 10:23	07/17/17 13:46	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/12/17 10:23	07/17/17 13:46	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/12/17 10:23	07/17/17 13:46	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/12/17 10:23	07/17/17 13:46	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/12/17 10:23	07/17/17 13:46	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/12/17 10:23	07/17/17 13:46	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/12/17 10:23	07/17/17 13:46	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/12/17 10:23	07/17/17 13:46	1

Client Sample ID: MW27-ROX-071017
Date Collected: 07/10/17 15:10
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-11
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		07/12/17 10:23	07/17/17 13:46	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/12/17 10:23	07/17/17 13:46	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:23	07/17/17 13:46	1
Phenol	ND		9.9	2.6	ug/L		07/12/17 10:23	07/17/17 13:46	1
Pyridine	ND	*	9.9	3.2	ug/L		07/12/17 10:23	07/17/17 13:46	1
Quinoline	ND		9.9	5.9	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/12/17 10:23	07/17/17 13:46	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/12/17 10:23	07/17/17 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*34 - 120*	*07/12/17 10:23*	*07/17/17 13:46*	*1*
2-Fluorophenol	*24*		*10 - 120*	*07/12/17 10:23*	*07/17/17 13:46*	*1*
Nitrobenzene-d5	*57*		*27 - 120*	*07/12/17 10:23*	*07/17/17 13:46*	*1*
Phenol-d5	*37*		*10 - 120*	*07/12/17 10:23*	*07/17/17 13:46*	*1*
Terphenyl-d14	*60*		*53 - 125*	*07/12/17 10:23*	*07/17/17 13:46*	*1*
2,4,6-Tribromophenol	*66*		*15 - 135*	*07/12/17 10:23*	*07/17/17 13:46*	*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		0.030	0.0055	ug/L		07/14/17 10:54	07/22/17 02:59	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/22/17 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*138*		*51 - 149*	*07/14/17 10:54*	*07/22/17 02:59*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: TB-ROX-071017-8026-A
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-12
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			07/17/17 17:15	1
Acrolein	ND		20	10	ug/L			07/17/17 17:15	1
Acrylonitrile	ND		10	2.8	ug/L			07/17/17 17:15	1
Benzene	ND		1.0	0.38	ug/L			07/17/17 17:15	1
Bromobenzene	ND		1.0	0.54	ug/L			07/17/17 17:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/17/17 17:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Bromoform	ND		5.0	0.71	ug/L			07/17/17 17:15	1
Bromomethane	ND		1.0	0.98	ug/L			07/17/17 17:15	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/17/17 17:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Chloroethane	ND		1.0	0.76	ug/L			07/17/17 17:15	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/17/17 17:15	1
Chloroform	ND		1.0	0.60	ug/L			07/17/17 17:15	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/17/17 17:15	1
Chloromethane	ND		1.0	0.83	ug/L			07/17/17 17:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 17:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/17/17 17:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/17/17 17:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/17/17 17:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/17/17 17:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/17/17 17:15	1
2-Hexanone	ND		25	3.1	ug/L			07/17/17 17:15	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/17/17 17:15	1
Methylene bromide	ND		5.0	0.59	ug/L			07/17/17 17:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/17/17 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/17/17 17:15	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/17/17 17:15	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/17/17 17:15	1
Naphthalene	ND		1.0	1.0	ug/L			07/17/17 17:15	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/17/17 17:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/17 17:15	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/17/17 17:15	1
o-Xylene	ND		5.0	0.60	ug/L			07/17/17 17:15	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/17/17 17:15	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/17/17 17:15	1

Client Sample ID: TB-ROX-071017-8026-A
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-12
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			07/17/17 17:15	1
Styrene	ND		1.0	1.0	ug/L			07/17/17 17:15	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/17/17 17:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/17/17 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/17/17 17:15	1
Toluene	ND		1.0	0.70	ug/L			07/17/17 17:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 17:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/17/17 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/17/17 17:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/17/17 17:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/17/17 17:15	1
Trichloroethene	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/17/17 17:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/17/17 17:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/17/17 17:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/17/17 17:15	1
Vinyl acetate	ND		25	2.0	ug/L			07/17/17 17:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/17/17 17:15	1
Xylenes, Total	ND		10	1.6	ug/L			07/17/17 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/17/17 17:15*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/17/17 17:15*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/17/17 17:15*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: TB-ROX-071017-8011-A
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 13:08

Lab Sample ID: 400-140344-13
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		07/14/17 10:54	07/22/17 03:17	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/14/17 10:54	07/22/17 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*139*		*51 - 149*	*07/14/17 10:54*	*07/22/17 03:17*	*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.
B	Compound was found in the blank and sample.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)
400-140267-A-5 MS	Matrix Spike	99	103	96
400-140267-A-5 MSD	Matrix Spike Duplicate	100	103	97
400-140344-1	MW4-ROX-071017	100	101	96
400-140344-2	MW25-ROX-071017-EB	101	102	97
400-140344-3	MW25-ROX-071017	101	101	95
400-140344-4	MW8-ROX-071017	100	101	96
400-140344-4	MW8-ROX-071017	100	101	97
400-140344-5	TB-ROX-071017-8260	99	108	94
400-140344-7	MW16-ROX-071017-EB	101	101	97
400-140344-8	MW16-ROX-071017	101	102	97
400-140344-9	P54-ROX-071017	101	102	96
400-140344-10	MW11-ROX-071017	100	102	96
400-140344-11	MW27-ROX-071017	100	101	96
400-140344-12	TB-ROX-071017-8026-A	100	101	99
400-140347-B-1 MS	Matrix Spike	100	103	99
400-140347-B-1 MSD	Matrix Spike Duplicate	101	103	98
400-140512-A-4 MS	Matrix Spike	99	104	98
400-140512-A-4 MSD	Matrix Spike Duplicate	99	108	94
LCS 400-360276/1003	Lab Control Sample	100	102	97
LCS 400-360682/1002	Lab Control Sample	101	105	96
LCS 400-360800/1003	Lab Control Sample	101	104	97
MB 400-360276/5	Method Blank	99	98	97
MB 400-360682/4	Method Blank	100	102	96
MB 400-360800/5	Method Blank	101	101	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)
400-140344-1	MW4-ROX-071017	82	30	76	52	69	107
400-140344-2	MW25-ROX-071017-EB	74	38	77	55	83	90
400-140344-3	MW25-ROX-071017	58 *	22 *	41 *	6 X *	40 X *	113 *
400-140344-3 - RERA	MW25-ROX-071017	62	29	58	48	69	91
400-140344-4	MW8-ROX-071017	70	30	60	48	36 X	99
400-140344-7	MW16-ROX-071017-EB	53	24	53	38	61	77
400-140344-8	MW16-ROX-071017	70	20	71	46	88	97
400-140344-9	P54-ROX-071017	74	28	76	48	73	88
400-140344-10	MW11-ROX-071017	69	33	66	48	73	97
400-140344-11	MW27-ROX-071017	55	24	57	37	60	66
LCS 400-360171/2-A	Lab Control Sample	59	19	54	41	75	78
LCS 400-360171/4-A	Lab Control Sample	77	47	79	58	82	79
LCS 400-362010/2-A	Lab Control Sample	77	15	71	47	84	99

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (34-120)	2FP (10-120)	NBZ (27-120)	PHL (10-120)	TPH (53-125)	TBP (15-135)
LCS 400-362010/4-A	Lab Control Sample	76	42	71	61	78	76
LCSD 400-360171/3-A	Lab Control Sample Dup	70	25	66	51	83	89
LCSD 400-360171/5-A	Lab Control Sample Dup	68	25	69	49	82	59
LCSD 400-362010/3-A	Lab Control Sample Dup	80	37	68	58	84	103
LCSD 400-362010/5-A	Lab Control Sample Dup	82	29	77	54	83	62
MB 400-360171/1-A	Method Blank	94	29	96	44	97	104
MB 400-362010/1-A	Method Blank	83	16	77	50	83	63

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)		
Lab Sample ID	Client Sample ID	TPH (33-138)	FBP (15-122)	NBZ (19-130)
400-140344-1	MW4-ROX-071017	81	82	66
400-140344-2	MW25-ROX-071017-EB	103	78	65
400-140344-3	MW25-ROX-071017	58	64	40
400-140344-4	MW8-ROX-071017	29 X	57	52
400-140344-7	MW16-ROX-071017-EB	66	57	45
400-140344-8	MW16-ROX-071017	101	70	59
400-140344-9	P54-ROX-071017	84	77	65
400-140344-10	MW11-ROX-071017	103	81	62
400-140344-11	MW27-ROX-071017	113	77	60
LCS 400-360171/2-A	Lab Control Sample	72	66	48
LCSD 400-360171/3-A	Lab Control Sample Dup	82	79	60
MB 400-360171/1-A	Method Blank		100	82

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)
400-140267-D-5-B MS	Matrix Spike	130
400-140267-D-5-C MSD	Matrix Spike Duplicate	120
400-140344-1	MW4-ROX-071017	143
400-140344-2	MW25-ROX-071017-EB	162 X

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-140344-3	MW25-ROX-071017	104
400-140344-4	MW8-ROX-071017	134
400-140344-6	TB-ROX-071017-8011	137
400-140344-7	MW16-ROX-071017-EB	137
400-140344-8	MW16-ROX-071017	130
400-140344-9	P54-ROX-071017	126
400-140344-10	MW11-ROX-071017	146
400-140344-11	MW27-ROX-071017	138
400-140344-13	TB-ROX-071017-8011-A	139
LCS 400-360468/2-A	Lab Control Sample	107
MB 400-360468/1-A	Method Blank	157 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

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: MW4-ROX-071017

Lab Sample ID: 400-140344-1

Date Collected: 07/10/17 10:10
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 17:04	SAB	TAL PEN
Total/NA	Prep	3520C			1046.2 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 17:49	S1B	TAL PEN
Total/NA	Prep	3520C			1046.2 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 17:38	MAM	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 23:54	MAM	TAL PEN

Client Sample ID: MW25-ROX-071017-EB

Lab Sample ID: 400-140344-2

Date Collected: 07/10/17 11:05
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 16:37	SAB	TAL PEN
Total/NA	Prep	3520C			1046.6 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 18:19	S1B	TAL PEN
Total/NA	Prep	3520C			1046.6 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 18:01	MAM	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 00:13	MAM	TAL PEN

Client Sample ID: MW25-ROX-071017

Lab Sample ID: 400-140344-3

Date Collected: 07/10/17 11:55
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 17:32	SAB	TAL PEN
Total/NA	Prep	3520C	RERA		1037 mL	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D	RERA	1			362334	07/31/17 17:23	KJA	TAL PEN
Total/NA	Prep	3520C			1047.8 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 15:22	S1B	TAL PEN
Total/NA	Prep	3520C			1047.8 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 18:24	MAM	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 00:31	MAM	TAL PEN

Client Sample ID: MW8-ROX-071017

Lab Sample ID: 400-140344-4

Date Collected: 07/10/17 14:20
Matrix: Water
Date Received: 07/11/17 13:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	360276	07/13/17 19:49	SAB	TAL PEN

Client Sample ID: MW8-ROX-071017

Lab Sample ID: 400-140344-4

Date Collected: 07/10/17 14:20
Matrix: Water
Date Received: 07/11/17 13:08

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	360800	07/18/17 20:56	SAB	TAL PEN
Total/NA	Prep	3520C			1046.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 19:19	S1B	TAL PEN
Total/NA	Prep	3520C	DL		1046.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	5			360675	07/17/17 14:16	CS	TAL PEN
Total/NA	Prep	3520C			1046.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 18:47	MAM	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 00:50	MAM	TAL PEN

Client Sample ID: TB-ROX-071017-8260

Lab Sample ID: 400-140344-5

Date Collected: 07/10/17 00:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360682	07/17/17 16:20	S1K	TAL PEN

Client Sample ID: TB-ROX-071017-8011

Lab Sample ID: 400-140344-6

Date Collected: 07/10/17 00:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 01:08	MAM	TAL PEN

Client Sample ID: MW16-ROX-071017-EB

Lab Sample ID: 400-140344-7

Date Collected: 07/10/17 10:15
Matrix: Water
Date Received: 07/11/17 13:08

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	360800	07/18/17 15:26	SAB	TAL PEN
Total/NA	Prep	3520C			1002.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 19:49	S1B	TAL PEN
Total/NA	Prep	3520C			1002.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 19:10	MAM	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 01:27	MAM	TAL PEN

Client Sample ID: MW16-ROX-071017

Lab Sample ID: 400-140344-8

Date Collected: 07/10/17 11:05
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 19:21	SAB	TAL PEN
Total/NA	Prep	3520C			1043 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 20:20	S1B	TAL PEN
Total/NA	Prep	3520C			1043 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 19:33	MAM	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 01:45	MAM	TAL PEN

Client Sample ID: P54-ROX-071017

Lab Sample ID: 400-140344-9

Date Collected: 07/10/17 12:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 18:54	SAB	TAL PEN
Total/NA	Prep	3520C			1008.8 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 20:50	S1B	TAL PEN
Total/NA	Prep	3520C			1008.8 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 19:56	MAM	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 02:04	MAM	TAL PEN

Client Sample ID: MW11-ROX-071017

Lab Sample ID: 400-140344-10

Date Collected: 07/10/17 14:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 18:27	SAB	TAL PEN
Total/NA	Prep	3520C			987 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 21:20	S1B	TAL PEN
Total/NA	Prep	3520C			987 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 20:19	MAM	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 02:40	MAM	TAL PEN

Client Sample ID: MW27-ROX-071017

Lab Sample ID: 400-140344-11

Date Collected: 07/10/17 15:10
Matrix: Water
Date Received: 07/11/17 13:08

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	360276	07/13/17 17:59	SAB	TAL PEN
Total/NA	Prep	3520C			1010.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360675	07/17/17 13:46	CS	TAL PEN
Total/NA	Prep	3520C			1010.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN

Client Sample ID: MW27-ROX-071017

Lab Sample ID: 400-140344-11

Date Collected: 07/10/17 15:10
Matrix: Water
Date Received: 07/11/17 13:08

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			360896	07/18/17 18:37	S1B	TAL PEN
Total/NA	Prep	3520C			1010.4 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 20:42	MAM	TAL PEN
Total/NA	Prep	8011			34.8 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 02:59	MAM	TAL PEN

Client Sample ID: TB-ROX-071017-8026-A

Lab Sample ID: 400-140344-12

Date Collected: 07/10/17 00:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360682	07/17/17 17:15	S1K	TAL PEN

Client Sample ID: TB-ROX-071017-8011-A

Lab Sample ID: 400-140344-13

Date Collected: 07/10/17 00:00
Matrix: Water
Date Received: 07/11/17 13:08

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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/22/17 03:17	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360171/1-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 15:17	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 16:29	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360276/5

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	360276	07/13/17 10:13	SAB	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360468/1-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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 17:07	MAM	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360682/4
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	360682	07/17/17 12:13	S1K	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360800/5
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	360800	07/18/17 12:14	SAB	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-362010/1-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	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D		1			362334	07/31/17 14:51	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360171/2-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 15:48	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			360412	07/13/17 16:52	MAM	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360171/4-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 16:48	S1B	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360276/1003**
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	360276	07/13/17 09:15	SAB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360468/2-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	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361080	07/19/17 19:07	DS	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360682/1002**
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	360682	07/17/17 11:01	S1K	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360800/1003**
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	360800	07/18/17 11:16	SAB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-362010/2-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	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D		1			362334	07/31/17 15:22	KJA	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-362010/4-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	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D		1			362334	07/31/17 16:22	KJA	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-360171/3-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 16:18	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			360412	07/13/17 17:15	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-360171/5-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 17:18	S1B	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-362010/3-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	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D		1			362334	07/31/17 15:52	KJA	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-362010/5-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	1.0 mL	362010	07/27/17 16:17	VC1	TAL PEN
Total/NA	Analysis	8270D		1			362334	07/31/17 16:52	KJA	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-140267-A-5 MS**
Date Collected: 07/07/17 09:50 — **Matrix: Water**
Date Received: 07/08/17 08:20

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	360276	07/13/17 13:52	SAB	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-140267-A-5 MSD**
Date Collected: 07/07/17 09:50 — **Matrix: Water**
Date Received: 07/08/17 08:20

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	360276	07/13/17 14:20	SAB	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Client Sample ID: Matrix Spike
Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-D-5-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			35.4 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 22:04	MAM	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 07/07/17 09:50
Date Received: 07/08/17 08:20

Lab Sample ID: 400-140267-D-5-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			35.9 mL	35 mL	360468	07/14/17 10:54	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 22:22	MAM	TAL PEN

Client Sample ID: Matrix Spike
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-B-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	360800	07/18/17 14:04	SAB	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-B-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	360800	07/18/17 14:31	SAB	TAL PEN

Client Sample ID: Matrix Spike
Date Collected: 07/09/17 10:05
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140512-A-4 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	360682	07/17/17 13:35	S1K	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 07/09/17 10:05
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140512-A-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	360682	07/17/17 14:02	S1K	TAL PEN

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

GC/MS VOA

Analysis Batch: 360276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	8260B	
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	8260B	
400-140344-3	MW25-ROX-071017	Total/NA	Water	8260B	
400-140344-4	MW8-ROX-071017	Total/NA	Water	8260B	
400-140344-8	MW16-ROX-071017	Total/NA	Water	8260B	
400-140344-9	P54-ROX-071017	Total/NA	Water	8260B	
400-140344-10	MW11-ROX-071017	Total/NA	Water	8260B	
400-140344-11	MW27-ROX-071017	Total/NA	Water	8260B	
MB 400-360276/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360276/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140267-A-5 MS	Matrix Spike	Total/NA	Water	8260B	
400-140267-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 360682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-5	TB-ROX-071017-8260	Total/NA	Water	8260B	
400-140344-12	TB-ROX-071017-8026-A	Total/NA	Water	8260B	
MB 400-360682/4	Method Blank	Total/NA	Water	8260B	
LCS 400-360682/1002	Lab Control Sample	Total/NA	Water	8260B	
400-140512-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
400-140512-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 360800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-4	MW8-ROX-071017	Total/NA	Water	8260B	
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	8260B	
MB 400-360800/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360800/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140347-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-140347-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 360171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	3520C	
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	3520C	
400-140344-3	MW25-ROX-071017	Total/NA	Water	3520C	
400-140344-4 - DL	MW8-ROX-071017	Total/NA	Water	3520C	
400-140344-4	MW8-ROX-071017	Total/NA	Water	3520C	
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	3520C	
400-140344-8	MW16-ROX-071017	Total/NA	Water	3520C	
400-140344-9	P54-ROX-071017	Total/NA	Water	3520C	
400-140344-10	MW11-ROX-071017	Total/NA	Water	3520C	
400-140344-11	MW27-ROX-071017	Total/NA	Water	3520C	
MB 400-360171/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-360171/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-360171/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Analysis Batch: 360412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	8270D LL	360171
400-140344-3	MW25-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-4	MW8-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	8270D LL	360171
400-140344-8	MW16-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-9	P54-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-10	MW11-ROX-071017	Total/NA	Water	8270D LL	360171
400-140344-11	MW27-ROX-071017	Total/NA	Water	8270D LL	360171
MB 400-360171/1-A	Method Blank	Total/NA	Water	8270D LL	360171
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	8270D LL	360171
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	360171

Analysis Batch: 360434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	8270D	360171
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	8270D	360171
400-140344-4	MW8-ROX-071017	Total/NA	Water	8270D	360171
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	8270D	360171
400-140344-8	MW16-ROX-071017	Total/NA	Water	8270D	360171
400-140344-9	P54-ROX-071017	Total/NA	Water	8270D	360171
400-140344-10	MW11-ROX-071017	Total/NA	Water	8270D	360171
MB 400-360171/1-A	Method Blank	Total/NA	Water	8270D	360171
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	8270D	360171
LCS 400-360171/4-A	Lab Control Sample	Total/NA	Water	8270D	360171
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360171
LCSD 400-360171/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	360171

Analysis Batch: 360675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-4 - DL	MW8-ROX-071017	Total/NA	Water	8270D	360171
400-140344-11	MW27-ROX-071017	Total/NA	Water	8270D	360171

Analysis Batch: 360896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-11	MW27-ROX-071017	Total/NA	Water	8270D	360171

Analysis Batch: 361135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-3	MW25-ROX-071017	Total/NA	Water	8270D	360171

Prep Batch: 362010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-3 - RERA	MW25-ROX-071017	Total/NA	Water	3520C	
MB 400-362010/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-362010/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-362010/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-362010/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-362010/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Analysis Batch: 362334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-3 - RERA	MW25-ROX-071017	Total/NA	Water	8270D	362010
MB 400-362010/1-A	Method Blank	Total/NA	Water	8270D	362010
LCS 400-362010/2-A	Lab Control Sample	Total/NA	Water	8270D	362010
LCS 400-362010/4-A	Lab Control Sample	Total/NA	Water	8270D	362010
LCSD 400-362010/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	362010
LCSD 400-362010/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	362010

GC Semi VOA

Prep Batch: 360468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	8011	
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	8011	
400-140344-3	MW25-ROX-071017	Total/NA	Water	8011	
400-140344-4	MW8-ROX-071017	Total/NA	Water	8011	
400-140344-6	TB-ROX-071017-8011	Total/NA	Water	8011	
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	8011	
400-140344-8	MW16-ROX-071017	Total/NA	Water	8011	
400-140344-9	P54-ROX-071017	Total/NA	Water	8011	
400-140344-10	MW11-ROX-071017	Total/NA	Water	8011	
400-140344-11	MW27-ROX-071017	Total/NA	Water	8011	
400-140344-13	TB-ROX-071017-8011-A	Total/NA	Water	8011	
MB 400-360468/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-360468/2-A	Lab Control Sample	Total/NA	Water	8011	
400-140267-D-5-B MS	Matrix Spike	Total/NA	Water	8011	
400-140267-D-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	

Analysis Batch: 361080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-360468/2-A	Lab Control Sample	Total/NA	Water	8011	360468

Analysis Batch: 361274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140344-1	MW4-ROX-071017	Total/NA	Water	8011	360468
400-140344-2	MW25-ROX-071017-EB	Total/NA	Water	8011	360468
400-140344-3	MW25-ROX-071017	Total/NA	Water	8011	360468
400-140344-4	MW8-ROX-071017	Total/NA	Water	8011	360468
400-140344-6	TB-ROX-071017-8011	Total/NA	Water	8011	360468
400-140344-7	MW16-ROX-071017-EB	Total/NA	Water	8011	360468
400-140344-8	MW16-ROX-071017	Total/NA	Water	8011	360468
400-140344-9	P54-ROX-071017	Total/NA	Water	8011	360468
400-140344-10	MW11-ROX-071017	Total/NA	Water	8011	360468
400-140344-11	MW27-ROX-071017	Total/NA	Water	8011	360468
400-140344-13	TB-ROX-071017-8011-A	Total/NA	Water	8011	360468
MB 400-360468/1-A	Method Blank	Total/NA	Water	8011	360468
400-140267-D-5-B MS	Matrix Spike	Total/NA	Water	8011	360468
400-140267-D-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	8011	360468

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

Lab Sample ID: MB 400-360276/5
Matrix: Water
Analysis Batch: 360276

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			07/13/17 10:13	1
Acrolein	ND		20	10	ug/L			07/13/17 10:13	1
Acrylonitrile	ND		10	2.8	ug/L			07/13/17 10:13	1
Benzene	ND		1.0	0.38	ug/L			07/13/17 10:13	1
Bromobenzene	ND		1.0	0.54	ug/L			07/13/17 10:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Bromoform	ND		5.0	0.71	ug/L			07/13/17 10:13	1
Bromomethane	ND		1.0	0.98	ug/L			07/13/17 10:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/13/17 10:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Chloroethane	ND		1.0	0.76	ug/L			07/13/17 10:13	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/13/17 10:13	1
Chloroform	ND		1.0	0.60	ug/L			07/13/17 10:13	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/13/17 10:13	1
Chloromethane	ND		1.0	0.83	ug/L			07/13/17 10:13	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/13/17 10:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/13/17 10:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/13/17 10:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/13/17 10:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/13/17 10:13	1
2-Hexanone	ND		25	3.1	ug/L			07/13/17 10:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/13/17 10:13	1
Methylene bromide	ND		5.0	0.59	ug/L			07/13/17 10:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/13/17 10:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/13/17 10:13	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/13/17 10:13	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/13/17 10:13	1
Naphthalene	ND		1.0	1.0	ug/L			07/13/17 10:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/13/17 10:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/13/17 10:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/13/17 10:13	1
o-Xylene	ND		5.0	0.60	ug/L			07/13/17 10:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/13/17 10:13	1

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

Lab Sample ID: MB 400-360276/5
Matrix: Water
Analysis Batch: 360276

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			07/13/17 10:13	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
Styrene	ND		1.0	1.0	ug/L			07/13/17 10:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/13/17 10:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/13/17 10:13	1
Toluene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/13/17 10:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/13/17 10:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/13/17 10:13	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/13/17 10:13	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/13/17 10:13	1
Trichloroethene	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/13/17 10:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/13/17 10:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/13/17 10:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/13/17 10:13	1
Vinyl acetate	ND		25	2.0	ug/L			07/13/17 10:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/13/17 10:13	1
Xylenes, Total	ND		10	1.6	ug/L			07/13/17 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/13/17 10:13*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*07/13/17 10:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/13/17 10:13*	*1*

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	187		ug/L		94	43 - 160
Acrolein	500	522		ug/L		104	38 - 160
Acrylonitrile	500	517		ug/L		103	64 - 142
Benzene	50.0	53.0		ug/L		106	70 - 130
Bromobenzene	50.0	50.6		ug/L		101	70 - 132
Bromochloromethane	50.0	62.5		ug/L		125	70 - 130
Bromodichloromethane	50.0	53.9		ug/L		108	67 - 133
Bromoform	50.0	47.1		ug/L		94	57 - 140
Bromomethane	50.0	54.8		ug/L		110	10 - 160
2-Butanone (MEK)	200	207		ug/L		104	61 - 145
Carbon disulfide	50.0	50.3		ug/L		101	61 - 137
Carbon tetrachloride	50.0	54.8		ug/L		110	61 - 137
Chlorobenzene	50.0	51.1		ug/L		102	70 - 130
Dibromochloromethane	50.0	51.7		ug/L		103	67 - 135
Chloroethane	50.0	53.2		ug/L		106	55 - 141

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

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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	25.4		ug/L		51	10 - 160
Chloroform	50.0	54.1		ug/L		108	69 - 130
1-Chlorohexane	50.0	48.7		ug/L		97	69 - 130
Chloromethane	50.0	55.7		ug/L		111	58 - 137
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	68 - 130
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	69 - 132
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	67 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	54.3		ug/L		109	41 - 146
1,1-Dichloroethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	52.2		ug/L		104	69 - 130
1,1-Dichloroethene	50.0	53.5		ug/L		107	63 - 134
1,2-Dichloropropane	50.0	53.2		ug/L		106	70 - 130
1,3-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
2,2-Dichloropropane	50.0	55.4		ug/L		111	52 - 135
1,1-Dichloropropene	50.0	52.8		ug/L		106	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Ethyl methacrylate	50.0	50.4		ug/L		101	68 - 130
Hexachlorobutadiene	50.0	50.6		ug/L		101	53 - 140
2-Hexanone	200	193		ug/L		97	65 - 137
Isopropylbenzene	50.0	51.6		ug/L		103	70 - 130
Methylene bromide	50.0	55.3		ug/L		111	70 - 130
Methylene Chloride	50.0	52.2		ug/L		104	66 - 135
4-Methyl-2-pentanone (MIBK)	200	195		ug/L		98	69 - 138
Methyl tert-butyl ether	50.0	51.3		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
Naphthalene	50.0	49.0		ug/L		98	47 - 149
n-Butylbenzene	50.0	51.0		ug/L		102	67 - 130
N-Propylbenzene	50.0	50.9		ug/L		102	70 - 130
o-Chlorotoluene	50.0	50.8		ug/L		102	70 - 130
o-Xylene	50.0	51.2		ug/L		102	70 - 130
p-Chlorotoluene	50.0	50.7		ug/L		101	70 - 130
p-Isopropyltoluene	50.0	52.1		ug/L		104	65 - 130
sec-Butylbenzene	50.0	51.6		ug/L		103	66 - 130
Styrene	50.0	52.4		ug/L		105	70 - 130
tert-Butylbenzene	50.0	51.4		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.2		ug/L		100	65 - 130
Toluene	50.0	50.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	63 - 130
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	60 - 138
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	68 - 130
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	50.0	53.5		ug/L		107	70 - 130

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

Lab Sample ID: LCS 400-360276/1003
Matrix: Water
Analysis Batch: 360276

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	52.2		ug/L		104	65 - 138
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	69 - 130
Vinyl acetate	100	118		ug/L		118	26 - 160
Vinyl chloride	50.0	52.6		ug/L		105	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140267-A-5 MS
Matrix: Water
Analysis Batch: 360276

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	189		ug/L		94	43 - 160
Acrolein	ND		500	550		ug/L		110	38 - 160
Acrylonitrile	ND		500	540		ug/L		108	62 - 149
Benzene	ND		50.0	43.7		ug/L		87	56 - 142
Bromobenzene	ND		50.0	39.8		ug/L		80	59 - 136
Bromochloromethane	ND		50.0	56.8		ug/L		114	64 - 140
Bromodichloromethane	ND		50.0	47.1		ug/L		94	59 - 143
Bromoform	ND		50.0	43.6		ug/L		87	50 - 140
Bromomethane	ND		50.0	46.6		ug/L		93	10 - 160
2-Butanone (MEK)	ND		200	213		ug/L		107	55 - 150
Carbon disulfide	ND		50.0	39.9		ug/L		80	48 - 152
Carbon tetrachloride	ND		50.0	43.0		ug/L		86	55 - 145
Chlorobenzene	ND		50.0	39.4		ug/L		79	64 - 130
Dibromochloromethane	ND		50.0	46.6		ug/L		93	56 - 143
Chloroethane	ND		50.0	46.9		ug/L		94	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	46.7		ug/L		93	60 - 141
1-Chlorohexane	ND		50.0	31.2		ug/L		62	56 - 136
Chloromethane	ND		50.0	47.7		ug/L		95	49 - 148
cis-1,2-Dichloroethene	ND		50.0	47.0		ug/L		94	59 - 143
cis-1,3-Dichloropropene	ND		50.0	46.4		ug/L		93	57 - 140
1,2-Dichlorobenzene	ND		50.0	39.1		ug/L		78	52 - 137
1,3-Dichlorobenzene	ND		50.0	36.9		ug/L		74	54 - 135
1,4-Dichlorobenzene	ND		50.0	36.5		ug/L		73	53 - 135
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	61 - 144
1,2-Dichloroethane	ND		50.0	48.6		ug/L		97	60 - 141
1,1-Dichloroethene	ND		50.0	43.9		ug/L		88	54 - 147
1,2-Dichloropropane	ND		50.0	46.6		ug/L		93	66 - 137
1,3-Dichloropropane	ND		50.0	46.7		ug/L		93	66 - 133

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

Lab Sample ID: 400-140267-A-5 MS
Matrix: Water
Analysis Batch: 360276

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	46.2		ug/L		92	42 - 144
1,1-Dichloropropene	ND		50.0	41.5		ug/L		83	65 - 136
Ethylbenzene	ND		50.0	36.2		ug/L		72	58 - 131
Ethyl methacrylate	ND		50.0	48.7		ug/L		97	64 - 130
Hexachlorobutadiene	ND		50.0	24.3		ug/L		49	31 - 149
2-Hexanone	ND		200	197		ug/L		99	65 - 140
Isopropylbenzene	ND		50.0	33.8		ug/L		68	56 - 133
Methylene bromide	ND		50.0	51.6		ug/L		103	63 - 138
Methylene Chloride	ND		50.0	47.0		ug/L		94	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	201		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	50.9		ug/L		102	59 - 137
m-Xylene & p-Xylene	ND		50.0	35.6		ug/L		71	57 - 130
Naphthalene	ND		50.0	44.3		ug/L		89	25 - 160
n-Butylbenzene	ND		50.0	26.9		ug/L		54	41 - 142
N-Propylbenzene	ND		50.0	31.2		ug/L		62	51 - 138
o-Chlorotoluene	ND		50.0	34.4		ug/L		69	53 - 134
o-Xylene	ND		50.0	37.7		ug/L		75	61 - 130
p-Chlorotoluene	ND		50.0	34.5		ug/L		69	54 - 133
p-Isopropyltoluene	ND		50.0	29.7		ug/L		59	48 - 139
sec-Butylbenzene	ND		50.0	29.4		ug/L		59	50 - 138
Styrene	ND		50.0	39.7		ug/L		79	58 - 131
tert-Butylbenzene	ND		50.0	33.2		ug/L		66	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	43.0		ug/L		86	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135
Tetrachloroethene	ND		50.0	33.1		ug/L		66	52 - 133
Toluene	ND		50.0	38.7		ug/L		77	65 - 130
trans-1,2-Dichloroethene	ND		50.0	43.9		ug/L		88	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.3		ug/L		89	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	38.7		ug/L		77	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	36.3		ug/L		73	39 - 148
1,1,1-Trichloroethane	ND		50.0	43.1		ug/L		86	57 - 142
1,1,2-Trichloroethane	ND		50.0	47.3		ug/L		95	66 - 131
Trichloroethene	ND		50.0	41.1		ug/L		82	64 - 136
Trichlorofluoromethane	ND		50.0	44.3		ug/L		89	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.1		ug/L		96	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	33.9		ug/L		68	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	32.9		ug/L		66	52 - 135
Vinyl acetate	ND		100	120		ug/L		120	26 - 160
Vinyl chloride	ND		50.0	44.7		ug/L		89	46 - 152
Xylenes, Total	ND		100	73.3		ug/L		73	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 400-140267-A-5 MSD
Matrix: Water
Analysis Batch: 360276

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	196		ug/L		98	43 - 160	4	30
Acrolein	ND		500	577		ug/L		115	38 - 160	5	31
Acrylonitrile	ND		500	560		ug/L		112	62 - 149	4	30
Benzene	ND		50.0	47.2		ug/L		94	56 - 142	8	30
Bromobenzene	ND		50.0	42.0		ug/L		84	59 - 136	5	30
Bromochloromethane	ND		50.0	59.0		ug/L		118	64 - 140	4	30
Bromodichloromethane	ND		50.0	48.8		ug/L		98	59 - 143	4	30
Bromoform	ND		50.0	45.6		ug/L		91	50 - 140	4	30
Bromomethane	ND		50.0	50.2		ug/L		100	10 - 160	7	50
2-Butanone (MEK)	ND		200	226		ug/L		113	55 - 150	6	30
Carbon disulfide	ND		50.0	44.4		ug/L		89	48 - 152	11	30
Carbon tetrachloride	ND		50.0	47.6		ug/L		95	55 - 145	10	30
Chlorobenzene	ND		50.0	41.7		ug/L		83	64 - 130	6	30
Dibromochloromethane	ND		50.0	48.5		ug/L		97	56 - 143	4	30
Chloroethane	ND		50.0	49.6		ug/L		99	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	48.9		ug/L		98	60 - 141	5	30
1-Chlorohexane	ND		50.0	35.9		ug/L		72	56 - 136	14	30
Chloromethane	ND		50.0	50.8		ug/L		102	49 - 148	6	31
cis-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	59 - 143	5	30
cis-1,3-Dichloropropene	ND		50.0	48.3		ug/L		97	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	40.8		ug/L		82	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	39.1		ug/L		78	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	38.5		ug/L		77	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	50.3		ug/L		101	16 - 160	7	31
1,1-Dichloroethane	ND		50.0	49.5		ug/L		99	61 - 144	6	30
1,2-Dichloroethane	ND		50.0	49.5		ug/L		99	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	48.4		ug/L		97	54 - 147	10	30
1,2-Dichloropropane	ND		50.0	48.5		ug/L		97	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	48.4		ug/L		97	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	50.0		ug/L		100	42 - 144	8	31
1,1-Dichloropropene	ND		50.0	45.8		ug/L		92	65 - 136	10	30
Ethylbenzene	ND		50.0	39.7		ug/L		79	58 - 131	9	30
Ethyl methacrylate	ND		50.0	50.9		ug/L		102	64 - 130	4	30
Hexachlorobutadiene	ND		50.0	34.0		ug/L		68	31 - 149	33	36
2-Hexanone	ND		200	210		ug/L		105	65 - 140	6	30
Isopropylbenzene	ND		50.0	38.1		ug/L		76	56 - 133	12	30
Methylene bromide	ND		50.0	53.4		ug/L		107	63 - 138	3	30
Methylene Chloride	ND		50.0	48.6		ug/L		97	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	211		ug/L		106	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	52.6		ug/L		105	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	38.8		ug/L		78	57 - 130	9	30
Naphthalene	ND		50.0	46.2		ug/L		92	25 - 160	4	30
n-Butylbenzene	ND		50.0	33.7		ug/L		67	41 - 142	22	31
N-Propylbenzene	ND		50.0	35.7		ug/L		71	51 - 138	13	30
o-Chlorotoluene	ND		50.0	38.0		ug/L		76	53 - 134	10	30
o-Xylene	ND		50.0	40.5		ug/L		81	61 - 130	7	30
p-Chlorotoluene	ND		50.0	37.5		ug/L		75	54 - 133	8	30

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

Lab Sample ID: 400-140267-A-5 MSD
Matrix: Water
Analysis Batch: 360276

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	35.4		ug/L		71	48 - 139	17	30
sec-Butylbenzene	ND		50.0	35.4		ug/L		71	50 - 138	18	30
Styrene	ND		50.0	41.8		ug/L		84	58 - 131	5	30
tert-Butylbenzene	ND		50.0	38.1		ug/L		76	54 - 146	14	30
1,1,1,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	59 - 137	5	30
1,1,2,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	66 - 135	4	30
Tetrachloroethene	ND		50.0	37.3		ug/L		75	52 - 133	12	30
Toluene	ND		50.0	42.1		ug/L		84	65 - 130	8	30
trans-1,2-Dichloroethene	ND		50.0	47.2		ug/L		94	61 - 143	7	30
trans-1,3-Dichloropropene	ND		50.0	46.1		ug/L		92	53 - 133	4	30
1,2,3-Trichlorobenzene	ND		50.0	40.9		ug/L		82	43 - 145	6	30
1,2,4-Trichlorobenzene	ND		50.0	38.8		ug/L		78	39 - 148	7	30
1,1,1-Trichloroethane	ND		50.0	47.3		ug/L		95	57 - 142	9	30
1,1,2-Trichloroethane	ND		50.0	49.2		ug/L		98	66 - 131	4	30
Trichloroethene	ND		50.0	45.3		ug/L		91	64 - 136	10	30
Trichlorofluoromethane	ND		50.0	47.9		ug/L		96	54 - 156	8	30
1,2,3-Trichloropropane	ND		50.0	50.2		ug/L		100	65 - 133	4	30
1,2,4-Trimethylbenzene	ND		50.0	37.6		ug/L		75	50 - 139	10	30
1,3,5-Trimethylbenzene	ND		50.0	37.1		ug/L		74	52 - 135	12	30
Vinyl acetate	ND		100	120		ug/L		120	26 - 160	0	33
Vinyl chloride	ND		50.0	48.0		ug/L		96	46 - 152	7	30
Xylenes, Total	ND		100	79.3		ug/L		79	59 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 400-360682/4
Matrix: Water
Analysis Batch: 360682

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			07/17/17 12:13	1
Acrolein	ND		20	10	ug/L			07/17/17 12:13	1
Acrylonitrile	ND		10	2.8	ug/L			07/17/17 12:13	1
Benzene	ND		1.0	0.38	ug/L			07/17/17 12:13	1
Bromobenzene	ND		1.0	0.54	ug/L			07/17/17 12:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/17/17 12:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Bromoform	ND		5.0	0.71	ug/L			07/17/17 12:13	1
Bromomethane	ND		1.0	0.98	ug/L			07/17/17 12:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/17/17 12:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Chloroethane	ND		1.0	0.76	ug/L			07/17/17 12:13	1

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

Lab Sample ID: MB 400-360682/4
Matrix: Water
Analysis Batch: 360682

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			07/17/17 12:13	1
Chloroform	ND		1.0	0.60	ug/L			07/17/17 12:13	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/17/17 12:13	1
Chloromethane	ND		1.0	0.83	ug/L			07/17/17 12:13	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 12:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/17/17 12:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/17/17 12:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/17/17 12:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/17/17 12:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/17/17 12:13	1
2-Hexanone	ND		25	3.1	ug/L			07/17/17 12:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/17/17 12:13	1
Methylene bromide	ND		5.0	0.59	ug/L			07/17/17 12:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/17/17 12:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/17/17 12:13	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/17/17 12:13	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/17/17 12:13	1
Naphthalene	ND		1.0	1.0	ug/L			07/17/17 12:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/17/17 12:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/17 12:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/17/17 12:13	1
o-Xylene	ND		5.0	0.60	ug/L			07/17/17 12:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/17/17 12:13	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/17/17 12:13	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/17/17 12:13	1
Styrene	ND		1.0	1.0	ug/L			07/17/17 12:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/17/17 12:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/17/17 12:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/17/17 12:13	1
Toluene	ND		1.0	0.70	ug/L			07/17/17 12:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/17/17 12:13	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/17/17 12:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/17/17 12:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/17/17 12:13	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/17/17 12:13	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/17/17 12:13	1
Trichloroethene	ND		1.0	0.50	ug/L			07/17/17 12:13	1

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

Lab Sample ID: MB 400-360682/4
Matrix: Water
Analysis Batch: 360682

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			07/17/17 12:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/17/17 12:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/17/17 12:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/17/17 12:13	1
Vinyl acetate	ND		25	2.0	ug/L			07/17/17 12:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/17/17 12:13	1
Xylenes, Total	ND		10	1.6	ug/L			07/17/17 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/17/17 12:13*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/17/17 12:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/17/17 12:13*	*1*

Lab Sample ID: LCS 400-360682/1002
Matrix: Water
Analysis Batch: 360682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	199		ug/L		99	43 - 160
Acrolein	500	536		ug/L		107	38 - 160
Acrylonitrile	500	548		ug/L		110	64 - 142
Benzene	50.0	53.0		ug/L		106	70 - 130
Bromobenzene	50.0	53.2		ug/L		106	70 - 132
Bromochloromethane	50.0	64.0		ug/L		128	70 - 130
Bromodichloromethane	50.0	54.7		ug/L		109	67 - 133
Bromoform	50.0	50.9		ug/L		102	57 - 140
Bromomethane	50.0	49.1		ug/L		98	10 - 160
2-Butanone (MEK)	200	216		ug/L		108	61 - 145
Carbon disulfide	50.0	49.3		ug/L		99	61 - 137
Carbon tetrachloride	50.0	54.5		ug/L		109	61 - 137
Chlorobenzene	50.0	53.5		ug/L		107	70 - 130
Dibromochloromethane	50.0	54.7		ug/L		109	67 - 135
Chloroethane	50.0	52.7		ug/L		105	55 - 141
2-Chloroethyl vinyl ether	50.0	35.7		ug/L		71	10 - 160
Chloroform	50.0	54.3		ug/L		109	69 - 130
1-Chlorohexane	50.0	50.1		ug/L		100	69 - 130
Chloromethane	50.0	55.0		ug/L		110	58 - 137
cis-1,2-Dichloroethene	50.0	54.2		ug/L		108	68 - 130
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	69 - 132
1,2-Dichlorobenzene	50.0	53.6		ug/L		107	67 - 130
1,3-Dichlorobenzene	50.0	54.1		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	53.5		ug/L		107	41 - 146
1,1-Dichloroethane	50.0	53.8		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	54.1		ug/L		108	69 - 130
1,1-Dichloroethene	50.0	53.0		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	53.4		ug/L		107	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/L		107	70 - 130

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

Lab Sample ID: LCS 400-360682/1002
Matrix: Water
Analysis Batch: 360682

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	55.8		ug/L		112	52 - 135
1,1-Dichloropropene	50.0	53.6		ug/L		107	70 - 130
Ethylbenzene	50.0	53.3		ug/L		107	70 - 130
Ethyl methacrylate	50.0	53.7		ug/L		107	68 - 130
Hexachlorobutadiene	50.0	53.0		ug/L		106	53 - 140
2-Hexanone	200	214		ug/L		107	65 - 137
Isopropylbenzene	50.0	53.8		ug/L		108	70 - 130
Methylene bromide	50.0	57.0		ug/L		114	70 - 130
Methylene Chloride	50.0	65.9		ug/L		132	66 - 135
4-Methyl-2-pentanone (MIBK)	200	217		ug/L		108	69 - 138
Methyl tert-butyl ether	50.0	53.2		ug/L		106	66 - 130
m-Xylene & p-Xylene	50.0	53.5		ug/L		107	70 - 130
Naphthalene	50.0	53.1		ug/L		106	47 - 149
n-Butylbenzene	50.0	53.7		ug/L		107	67 - 130
N-Propylbenzene	50.0	53.8		ug/L		108	70 - 130
o-Chlorotoluene	50.0	53.3		ug/L		107	70 - 130
o-Xylene	50.0	53.4		ug/L		107	70 - 130
p-Chlorotoluene	50.0	53.3		ug/L		107	70 - 130
p-Isopropyltoluene	50.0	54.4		ug/L		109	65 - 130
sec-Butylbenzene	50.0	53.0		ug/L		106	66 - 130
Styrene	50.0	54.7		ug/L		109	70 - 130
tert-Butylbenzene	50.0	53.1		ug/L		106	64 - 139
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/L		109	67 - 131
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 131
Tetrachloroethene	50.0	55.4		ug/L		111	65 - 130
Toluene	50.0	52.2		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	52.8		ug/L		106	60 - 138
1,2,4-Trichlorobenzene	50.0	53.0		ug/L		106	60 - 140
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	68 - 130
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	70 - 130
Trichloroethene	50.0	54.0		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	52.4		ug/L		105	65 - 138
1,2,3-Trichloropropane	50.0	55.1		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	50.0	53.5		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	69 - 130
Vinyl acetate	100	117		ug/L		117	26 - 160
Vinyl chloride	50.0	53.1		ug/L		106	59 - 136
Xylenes, Total	100	107		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 400-140512-A-4 MS
Matrix: Water
Analysis Batch: 360682

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	200		ug/L		100	43 - 160
Acrolein	ND		500	584		ug/L		117	38 - 160
Acrylonitrile	ND		500	577		ug/L		115	62 - 149
Benzene	ND		50.0	53.5		ug/L		107	56 - 142
Bromobenzene	ND		50.0	52.7		ug/L		105	59 - 136
Bromochloromethane	ND		50.0	63.6		ug/L		127	64 - 140
Bromodichloromethane	ND		50.0	54.4		ug/L		109	59 - 143
Bromoform	ND		50.0	50.4		ug/L		101	50 - 140
Bromomethane	ND		50.0	40.0		ug/L		80	10 - 160
2-Butanone (MEK)	ND		200	228		ug/L		114	55 - 150
Carbon disulfide	ND		50.0	49.9		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	54.7		ug/L		109	55 - 145
Chlorobenzene	ND		50.0	53.2		ug/L		106	64 - 130
Dibromochloromethane	ND		50.0	55.9		ug/L		112	56 - 143
Chloroethane	ND		50.0	48.1		ug/L		96	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	55.3		ug/L		111	60 - 141
1-Chlorohexane	ND		50.0	50.3		ug/L		101	56 - 136
Chloromethane	ND		50.0	52.7		ug/L		105	49 - 148
cis-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	59 - 143
cis-1,3-Dichloropropene	ND		50.0	54.5		ug/L		109	57 - 140
1,2-Dichlorobenzene	ND		50.0	52.6		ug/L		105	52 - 137
1,3-Dichlorobenzene	ND		50.0	52.5		ug/L		105	54 - 135
1,4-Dichlorobenzene	ND		50.0	51.5		ug/L		103	53 - 135
Dichlorodifluoromethane	ND		50.0	53.7		ug/L		107	16 - 160
1,1-Dichloroethane	ND		50.0	54.6		ug/L		109	61 - 144
1,2-Dichloroethane	ND		50.0	54.9		ug/L		110	60 - 141
1,1-Dichloroethene	ND		50.0	54.3		ug/L		109	54 - 147
1,2-Dichloropropane	ND		50.0	53.7		ug/L		107	66 - 137
1,3-Dichloropropane	ND		50.0	54.9		ug/L		110	66 - 133
2,2-Dichloropropane	ND		50.0	58.3		ug/L		117	42 - 144
1,1-Dichloropropene	ND		50.0	53.6		ug/L		107	65 - 136
Ethylbenzene	ND		50.0	53.0		ug/L		106	58 - 131
Ethyl methacrylate	ND		50.0	55.4		ug/L		111	64 - 130
Hexachlorobutadiene	ND		50.0	50.8		ug/L		102	31 - 149
2-Hexanone	ND		200	224		ug/L		112	65 - 140
Isopropylbenzene	ND		50.0	53.5		ug/L		107	56 - 133
Methylene bromide	ND		50.0	59.0		ug/L		118	63 - 138
Methylene Chloride	ND		50.0	53.0		ug/L		106	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	227		ug/L		113	63 - 146
Methyl tert-butyl ether	ND		50.0	54.3		ug/L		109	59 - 137
m-Xylene & p-Xylene	ND		50.0	53.1		ug/L		106	57 - 130
Naphthalene	ND		50.0	53.5		ug/L		107	25 - 160
n-Butylbenzene	ND		50.0	51.5		ug/L		103	41 - 142
N-Propylbenzene	ND		50.0	52.2		ug/L		104	51 - 138
o-Chlorotoluene	ND		50.0	51.6		ug/L		103	53 - 134
o-Xylene	ND		50.0	53.2		ug/L		106	61 - 130
p-Chlorotoluene	ND		50.0	51.8		ug/L		104	54 - 133

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

Lab Sample ID: 400-140512-A-4 MS
Matrix: Water
Analysis Batch: 360682

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	52.6		ug/L		105	48 - 139
sec-Butylbenzene	ND		50.0	52.2		ug/L		104	50 - 138
Styrene	ND		50.0	53.5		ug/L		107	58 - 131
tert-Butylbenzene	ND		50.0	52.5		ug/L		105	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	54.6		ug/L		109	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	55.5		ug/L		111	66 - 135
Tetrachloroethene	ND		50.0	49.8		ug/L		100	52 - 133
Toluene	ND		50.0	52.4		ug/L		105	65 - 130
trans-1,2-Dichloroethene	ND		50.0	53.9		ug/L		108	61 - 143
trans-1,3-Dichloropropene	ND		50.0	54.2		ug/L		108	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	51.3		ug/L		103	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	50.3		ug/L		101	39 - 148
1,1,1-Trichloroethane	ND		50.0	53.7		ug/L		107	57 - 142
1,1,2-Trichloroethane	ND		50.0	55.2		ug/L		110	66 - 131
Trichloroethene	ND		50.0	53.5		ug/L		107	64 - 136
Trichlorofluoromethane	ND		50.0	53.8		ug/L		108	54 - 156
1,2,3-Trichloropropane	ND		50.0	56.4		ug/L		113	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	52.0		ug/L		104	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	51.9		ug/L		104	52 - 135
Vinyl acetate	ND		100	128		ug/L		128	26 - 160
Vinyl chloride	ND		50.0	54.2		ug/L		108	46 - 152
Xylenes, Total	ND		100	106		ug/L		106	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 400-140512-A-4 MSD
Matrix: Water
Analysis Batch: 360682

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	202		ug/L		101	43 - 160	1	30
Acrolein	ND		500	588		ug/L		118	38 - 160	1	31
Acrylonitrile	ND		500	582		ug/L		116	62 - 149	1	30
Benzene	ND		50.0	54.5		ug/L		109	56 - 142	2	30
Bromobenzene	ND		50.0	49.9		ug/L		100	59 - 136	6	30
Bromochloromethane	ND		50.0	63.7		ug/L		127	64 - 140	0	30
Bromodichloromethane	ND		50.0	55.8		ug/L		112	59 - 143	3	30
Bromoform	ND		50.0	48.5		ug/L		97	50 - 140	4	30
Bromomethane	ND		50.0	41.9		ug/L		84	10 - 160	5	50
2-Butanone (MEK)	ND		200	234		ug/L		117	55 - 150	2	30
Carbon disulfide	ND		50.0	50.8		ug/L		102	48 - 152	2	30
Carbon tetrachloride	ND		50.0	55.1		ug/L		110	55 - 145	1	30
Chlorobenzene	ND		50.0	51.5		ug/L		103	64 - 130	3	30
Dibromochloromethane	ND		50.0	53.8		ug/L		108	56 - 143	4	30
Chloroethane	ND		50.0	48.7		ug/L		97	50 - 151	1	30

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

Lab Sample ID: 400-140512-A-4 MSD
Matrix: Water
Analysis Batch: 360682

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	56.2		ug/L		112	60 - 141	2	30
1-Chlorohexane	ND		50.0	48.4		ug/L		97	56 - 136	4	30
Chloromethane	ND		50.0	53.3		ug/L		107	49 - 148	1	31
cis-1,2-Dichloroethene	ND		50.0	56.3		ug/L		113	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	55.6		ug/L		111	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	49.8		ug/L		100	52 - 137	6	30
1,3-Dichlorobenzene	ND		50.0	49.4		ug/L		99	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	48.9		ug/L		98	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	54.1		ug/L		108	16 - 160	1	31
1,1-Dichloroethane	ND		50.0	55.8		ug/L		112	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	55.4		ug/L		111	60 - 141	1	30
1,1-Dichloroethene	ND		50.0	54.8		ug/L		110	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	54.5		ug/L		109	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	52.7		ug/L		105	66 - 133	4	30
2,2-Dichloropropane	ND		50.0	59.2		ug/L		118	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	54.9		ug/L		110	65 - 136	2	30
Ethylbenzene	ND		50.0	51.2		ug/L		102	58 - 131	4	30
Ethyl methacrylate	ND		50.0	53.8		ug/L		108	64 - 130	3	30
Hexachlorobutadiene	ND		50.0	46.1		ug/L		92	31 - 149	10	36
2-Hexanone	ND		200	211		ug/L		105	65 - 140	6	30
Isopropylbenzene	ND		50.0	51.7		ug/L		103	56 - 133	4	30
Methylene bromide	ND		50.0	59.4		ug/L		119	63 - 138	1	30
Methylene Chloride	ND		50.0	54.1		ug/L		108	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	219		ug/L		109	63 - 146	4	30
Methyl tert-butyl ether	ND		50.0	56.0		ug/L		112	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	51.1		ug/L		102	57 - 130	4	30
Naphthalene	ND		50.0	50.6		ug/L		101	25 - 160	6	30
n-Butylbenzene	ND		50.0	47.8		ug/L		96	41 - 142	7	31
N-Propylbenzene	ND		50.0	49.2		ug/L		98	51 - 138	6	30
o-Chlorotoluene	ND		50.0	48.8		ug/L		98	53 - 134	6	30
o-Xylene	ND		50.0	51.1		ug/L		102	61 - 130	4	30
p-Chlorotoluene	ND		50.0	48.9		ug/L		98	54 - 133	6	30
p-Isopropyltoluene	ND		50.0	49.5		ug/L		99	48 - 139	6	30
sec-Butylbenzene	ND		50.0	49.3		ug/L		99	50 - 138	6	30
Styrene	ND		50.0	51.9		ug/L		104	58 - 131	3	30
tert-Butylbenzene	ND		50.0	49.9		ug/L		100	54 - 146	5	30
1,1,1,2-Tetrachloroethane	ND		50.0	53.0		ug/L		106	59 - 137	3	30
1,1,2,2-Tetrachloroethane	ND		50.0	52.8		ug/L		106	66 - 135	5	30
Tetrachloroethene	ND		50.0	47.9		ug/L		96	52 - 133	4	30
Toluene	ND		50.0	50.7		ug/L		101	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	54.8		ug/L		110	61 - 143	2	30
trans-1,3-Dichloropropene	ND		50.0	51.5		ug/L		103	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	47.9		ug/L		96	43 - 145	7	30
1,2,4-Trichlorobenzene	ND		50.0	46.2		ug/L		92	39 - 148	9	30
1,1,1-Trichloroethane	ND		50.0	54.6		ug/L		109	57 - 142	2	30
1,1,2-Trichloroethane	ND		50.0	53.7		ug/L		107	66 - 131	3	30
Trichloroethene	ND		50.0	54.6		ug/L		109	64 - 136	2	30

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

Lab Sample ID: 400-140512-A-4 MSD
Matrix: Water
Analysis Batch: 360682

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	0	30
1,2,3-Trichloropropane	ND		50.0	53.8		ug/L		108	65 - 133	5	30
1,2,4-Trimethylbenzene	ND		50.0	48.8		ug/L		98	50 - 139	6	30
1,3,5-Trimethylbenzene	ND		50.0	49.3		ug/L		99	52 - 135	5	30
Vinyl acetate	ND		100	127		ug/L		127	26 - 160	0	33
Vinyl chloride	ND		50.0	53.5		ug/L		107	46 - 152	1	30
Xylenes, Total	ND		100	102		ug/L		102	59 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
Acrolein	ND		20	10	ug/L			07/18/17 12:14	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 12:14	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 12:14	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 12:14	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 12:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 12:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 12:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 12:14	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 12:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 12:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 12:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 12:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 12:14	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 12:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 12:14	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 12:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 12:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 12:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 12:14	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 12:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 12:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 12:14	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 12:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 12:14	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 12:14	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 12:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 12:14	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 12:14	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 12:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 12:14	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 12:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 12:14*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 12:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 12:14*	*1*

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	184		ug/L		92	43 - 160
Acrolein	500	510		ug/L		102	38 - 160
Acrylonitrile	500	508		ug/L		102	64 - 142
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromobenzene	50.0	49.1		ug/L		98	70 - 132
Bromochloromethane	50.0	56.6		ug/L		113	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 133
Bromoform	50.0	46.6		ug/L		93	57 - 140
Bromomethane	50.0	52.0		ug/L		104	10 - 160
2-Butanone (MEK)	200	202		ug/L		101	61 - 145
Carbon disulfide	50.0	44.3		ug/L		89	61 - 137
Carbon tetrachloride	50.0	48.6		ug/L		97	61 - 137
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	50.0	49.3		ug/L		99	67 - 135
Chloroethane	50.0	48.8		ug/L		98	55 - 141
2-Chloroethyl vinyl ether	50.0	27.1		ug/L		54	10 - 160
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	45.7		ug/L		91	69 - 130
Chloromethane	50.0	50.5		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	67 - 130
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	47.4		ug/L		95	41 - 146
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	63 - 134
1,2-Dichloropropane	50.0	48.0		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	48.5		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	50.8		ug/L		102	52 - 135
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Ethyl methacrylate	50.0	49.5		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	48.4		ug/L		97	53 - 140
2-Hexanone	200	201		ug/L		100	65 - 137
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
Methylene bromide	50.0	51.1		ug/L		102	70 - 130
Methylene Chloride	50.0	48.1		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	69 - 138
Methyl tert-butyl ether	50.0	48.5		ug/L		97	66 - 130
m-Xylene & p-Xylene	50.0	47.9		ug/L		96	70 - 130
Naphthalene	50.0	49.6		ug/L		99	47 - 149
n-Butylbenzene	50.0	48.7		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.7		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	48.2		ug/L		96	70 - 130
p-Chlorotoluene	50.0	48.6		ug/L		97	70 - 130

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	49.2		ug/L		98	65 - 130
sec-Butylbenzene	50.0	48.4		ug/L		97	66 - 130
Styrene	50.0	49.0		ug/L		98	70 - 130
tert-Butylbenzene	50.0	48.2		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.6		ug/L		101	65 - 130
Toluene	50.0	46.7		ug/L		93	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	60 - 138
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	47.7		ug/L		95	65 - 138
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	48.0		ug/L		96	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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	199		ug/L		99	43 - 160
Acrolein	ND		500	562		ug/L		112	38 - 160
Acrylonitrile	ND		500	560		ug/L		112	62 - 149
Benzene	ND		50.0	45.9		ug/L		92	56 - 142
Bromobenzene	ND		50.0	47.6		ug/L		95	59 - 136
Bromochloromethane	ND		50.0	58.4		ug/L		117	64 - 140
Bromodichloromethane	ND		50.0	48.2		ug/L		96	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	34.4		ug/L		69	10 - 160
2-Butanone (MEK)	ND		200	227		ug/L		114	55 - 150
Carbon disulfide	ND		50.0	41.3		ug/L		83	48 - 152
Carbon tetrachloride	ND		50.0	44.8		ug/L		90	55 - 145
Chlorobenzene	ND		50.0	45.7		ug/L		91	64 - 130
Dibromochloromethane	ND		50.0	50.3		ug/L		101	56 - 143
Chloroethane	ND		50.0	39.8		ug/L		80	50 - 151

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

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.6		ug/L		97	60 - 141
1-Chlorohexane	ND		50.0	40.5		ug/L		81	56 - 136
Chloromethane	ND		50.0	45.0		ug/L		90	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.7		ug/L		93	52 - 137
1,3-Dichlorobenzene	ND		50.0	45.5		ug/L		91	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.4		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	44.6		ug/L		89	16 - 160
1,1-Dichloroethane	ND		50.0	47.8		ug/L		96	61 - 144
1,2-Dichloroethane	ND		50.0	50.2		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	45.5		ug/L		91	54 - 147
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	51.1		ug/L		102	66 - 133
2,2-Dichloropropane	ND		50.0	47.9		ug/L		96	42 - 144
1,1-Dichloropropene	ND		50.0	45.2		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	44.4		ug/L		89	58 - 131
Ethyl methacrylate	ND		50.0	52.2		ug/L		104	64 - 130
Hexachlorobutadiene	ND		50.0	39.9		ug/L		80	31 - 149
2-Hexanone	ND		200	227		ug/L		113	65 - 140
Isopropylbenzene	ND		50.0	43.4		ug/L		87	56 - 133
Methylene bromide	ND		50.0	54.0		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	47.9		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	224		ug/L		112	63 - 146
Methyl tert-butyl ether	ND		50.0	50.5		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.8		ug/L		88	57 - 130
Naphthalene	ND		50.0	51.5		ug/L		103	25 - 160
n-Butylbenzene	ND		50.0	41.1		ug/L		82	41 - 142
N-Propylbenzene	ND		50.0	42.9		ug/L		86	51 - 138
o-Chlorotoluene	ND		50.0	44.8		ug/L		90	53 - 134
o-Xylene	ND		50.0	45.1		ug/L		90	61 - 130
p-Chlorotoluene	ND		50.0	44.3		ug/L		89	54 - 133
p-Isopropyltoluene	ND		50.0	42.6		ug/L		85	48 - 139
sec-Butylbenzene	ND		50.0	42.3		ug/L		85	50 - 138
Styrene	ND		50.0	46.1		ug/L		92	58 - 131
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.1		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	41.5		ug/L		83	52 - 133
Toluene	ND		50.0	45.0		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.6		ug/L		93	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.9		ug/L		96	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.5		ug/L		93	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	44.9		ug/L		90	39 - 148
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	57 - 142
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	66 - 131
Trichloroethene	ND		50.0	45.4		ug/L		91	64 - 136

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

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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
Trichlorofluoromethane	ND		50.0	45.4		ug/L		91	54 - 156
1,2,3-Trichloropropane	ND		50.0	55.0		ug/L		110	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	44.0		ug/L		88	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	43.4		ug/L		87	52 - 135
Vinyl acetate	ND		100	117		ug/L		117	26 - 160
Vinyl chloride	ND		50.0	45.2		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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	166		ug/L		83	43 - 160	18	30
Acrolein	ND		500	518		ug/L		104	38 - 160	8	31
Acrylonitrile	ND		500	501		ug/L		100	62 - 149	11	30
Benzene	ND		50.0	45.8		ug/L		92	56 - 142	0	30
Bromobenzene	ND		50.0	45.3		ug/L		91	59 - 136	5	30
Bromochloromethane	ND		50.0	55.3		ug/L		111	64 - 140	5	30
Bromodichloromethane	ND		50.0	46.5		ug/L		93	59 - 143	3	30
Bromoform	ND		50.0	43.5		ug/L		87	50 - 140	8	30
Bromomethane	ND		50.0	40.3		ug/L		81	10 - 160	16	50
2-Butanone (MEK)	ND		200	199		ug/L		99	55 - 150	13	30
Carbon disulfide	ND		50.0	42.0		ug/L		84	48 - 152	2	30
Carbon tetrachloride	ND		50.0	46.0		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	44.7		ug/L		89	64 - 130	2	30
Dibromochloromethane	ND		50.0	47.3		ug/L		95	56 - 143	6	30
Chloroethane	ND		50.0	41.0		ug/L		82	50 - 151	3	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.5		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	40.8		ug/L		82	56 - 136	1	30
Chloromethane	ND		50.0	47.1		ug/L		94	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	46.0		ug/L		92	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	44.9		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	44.6		ug/L		89	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	43.7		ug/L		87	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	47.4		ug/L		95	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	46.3		ug/L		93	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	46.8		ug/L		94	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	47.6		ug/L		95	66 - 133	7	30

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

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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
2,2-Dichloropropane	ND		50.0	48.7		ug/L		97	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	45.6		ug/L		91	65 - 136	1	30
Ethylbenzene	ND		50.0	43.9		ug/L		88	58 - 131	1	30
Ethyl methacrylate	ND		50.0	47.2		ug/L		94	64 - 130	10	30
Hexachlorobutadiene	ND		50.0	42.1		ug/L		84	31 - 149	5	36
2-Hexanone	ND		200	192		ug/L		96	65 - 140	17	30
Isopropylbenzene	ND		50.0	43.9		ug/L		88	56 - 133	1	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	46.7		ug/L		93	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	192		ug/L		96	63 - 146	15	30
Methyl tert-butyl ether	ND		50.0	47.6		ug/L		95	59 - 137	6	30
m-Xylene & p-Xylene	ND		50.0	43.6		ug/L		87	57 - 130	0	30
Naphthalene	ND		50.0	46.8		ug/L		94	25 - 160	10	30
n-Butylbenzene	ND		50.0	42.8		ug/L		86	41 - 142	4	31
N-Propylbenzene	ND		50.0	43.1		ug/L		86	51 - 138	0	30
o-Chlorotoluene	ND		50.0	44.1		ug/L		88	53 - 134	2	30
o-Xylene	ND		50.0	44.2		ug/L		88	61 - 130	2	30
p-Chlorotoluene	ND		50.0	43.8		ug/L		88	54 - 133	1	30
p-Isopropyltoluene	ND		50.0	43.5		ug/L		87	48 - 139	2	30
sec-Butylbenzene	ND		50.0	43.1		ug/L		86	50 - 138	2	30
Styrene	ND		50.0	45.0		ug/L		90	58 - 131	2	30
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146	0	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135	13	30
Tetrachloroethene	ND		50.0	41.9		ug/L		84	52 - 133	1	30
Toluene	ND		50.0	44.2		ug/L		88	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	61 - 143	0	30
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	44.2		ug/L		88	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	43.4		ug/L		87	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	48.0		ug/L		96	66 - 131	8	30
Trichloroethene	ND		50.0	45.5		ug/L		91	64 - 136	0	30
Trichlorofluoromethane	ND		50.0	47.8		ug/L		96	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	48.2		ug/L		96	65 - 133	13	30
1,2,4-Trimethylbenzene	ND		50.0	43.4		ug/L		87	50 - 139	1	30
1,3,5-Trimethylbenzene	ND		50.0	43.6		ug/L		87	52 - 135	1	30
Vinyl acetate	ND		100	114		ug/L		114	26 - 160	3	33
Vinyl chloride	ND		50.0	47.0		ug/L		94	46 - 152	4	30
Xylenes, Total	ND		100	87.9		ug/L		88	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzenethiol	ND		10	1.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzoic acid	ND		30	7.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzyl alcohol	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/12/17 10:22	07/14/17 15:17	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/12/17 10:22	07/14/17 15:17	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chloroaniline	ND		10	3.4	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Chlorophenol	ND		10	2.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dibenzofuran	ND		10	0.52	ug/L		07/12/17 10:22	07/14/17 15:17	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Diethyl phthalate	ND		10	0.70	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/12/17 10:22	07/14/17 15:17	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:22	07/14/17 15:17	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/12/17 10:22	07/14/17 15:17	1
1,4-Dioxane	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachloroethane	ND		10	4.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
Indene	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Isophorone	ND		10	0.57	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Methylphenol	ND		10	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Nitroaniline	ND		10	2.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
3-Nitroaniline	ND		10	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Nitroaniline	ND		10	2.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
Nitrobenzene	ND		10	0.55	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Nitrophenol	ND		10	0.65	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Nitrophenol	ND		10	2.1	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/12/17 10:22	07/14/17 15:17	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
Pyridine	ND		10	3.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
Quinoline	ND		10	6.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
2-Fluorophenol	*29*		*10 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Nitrobenzene-d5	*96*		*27 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Phenol-d5	*44*		*10 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Terphenyl-d14	*97*		*53 - 125*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
2,4,6-Tribromophenol	*104*		*15 - 135*	*07/12/17 10:22*	*07/14/17 15:17*	*1*

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	15.1		ug/L		50	29 - 120
Benzoic acid	125	14.4	J	ug/L		11	10 - 150
Benzyl alcohol	30.0	13.8		ug/L		46	19 - 125
Bis(2-chloroethoxy)methane	30.0	15.4		ug/L		51	45 - 120
Bis(2-chloroethyl)ether	30.0	13.8	*	ug/L		46	48 - 120
bis (2-chloroisopropyl) ether	30.0	13.7		ug/L		46	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	23.6		ug/L		79	48 - 150
4-Bromophenyl phenyl ether	30.0	17.4		ug/L		58	55 - 122
Butyl benzyl phthalate	30.0	22.1		ug/L		74	46 - 145
4-Chloroaniline	30.0	17.2		ug/L		57	30 - 120
4-Chloro-3-methylphenol	30.0	17.5		ug/L		58	39 - 140
2-Chloronaphthalene	30.0	17.5		ug/L		58	52 - 120
2-Chlorophenol	30.0	10.2		ug/L		34	34 - 120
4-Chlorophenyl phenyl ether	30.0	18.0		ug/L		60	58 - 124
Dibenz[a,h]acridine	30.0	18.5		ug/L		62	46 - 149
Dibenzofuran	30.0	18.2		ug/L		61	58 - 123
3,3'-Dichlorobenzidine	40.0	28.8		ug/L		72	39 - 135
2,4-Dichlorophenol	30.0	14.9		ug/L		50	39 - 128
Diethyl phthalate	30.0	18.5		ug/L		62	44 - 146
2,4-Dimethylphenol	30.0	16.3		ug/L		54	44 - 120
Dimethyl phthalate	30.0	18.3		ug/L		61	50 - 131
Di-n-butyl phthalate	30.0	21.5		ug/L		72	55 - 131
4,6-Dinitro-ortho-cresol	60.0	37.2		ug/L		62	10 - 150
2,4-Dinitrophenol	60.0	35.5		ug/L		59	10 - 150
2,4-Dinitrotoluene	30.0	20.5		ug/L		68	58 - 140
2,6-Dinitrotoluene	30.0	18.0		ug/L		60	57 - 130
Di-n-octyl phthalate	30.0	20.4		ug/L		68	50 - 150
1,4-Dioxane	30.0	10.0		ug/L		33	25 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine (as Azobenzene)	30.0	16.5		ug/L		55	47 - 123
Hexachlorobenzene	30.0	20.0		ug/L		67	52 - 131
Hexachlorocyclopentadiene	30.0	ND	*	ug/L		8	10 - 129
Hexachloroethane	30.0	12.2		ug/L		41	41 - 120
Indene	30.0	15.6		ug/L		52	47 - 120
Isophorone	30.0	16.4		ug/L		55	49 - 120
2-Methylphenol	30.0	16.2		ug/L		54	39 - 123
3 & 4 Methylphenol	30.0	14.3	J	ug/L		48	38 - 121
2-Nitroaniline	30.0	19.7		ug/L		66	47 - 150
3-Nitroaniline	30.0	20.2		ug/L		67	34 - 132
4-Nitroaniline	30.0	28.0		ug/L		93	41 - 135
Nitrobenzene	30.0	15.6		ug/L		52	47 - 120
2-Nitrophenol	30.0	12.6		ug/L		42	28 - 136
4-Nitrophenol	60.0	31.3		ug/L		52	10 - 150
N-Nitrosodimethylamine	30.0	14.7		ug/L		49	22 - 148
N-Nitrosodi-n-propylamine	30.0	15.3		ug/L		51	44 - 120
N-Nitrosodiphenylamine	29.8	17.6		ug/L		59	56 - 120
Pentachlorophenol	60.0	27.0		ug/L		45	15 - 141
Phenol	30.0	11.6		ug/L		39	33 - 120
Pyridine	30.0	11.2		ug/L		37	26 - 120
Quinoline	30.0	19.9		ug/L		66	51 - 129
2,4,5-Trichlorophenol	30.0	17.7		ug/L		59	38 - 147
2,4,6-Trichlorophenol	30.0	16.1		ug/L		54	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*59*		*34 - 120*
2-Fluorophenol	*19*		*10 - 120*
Nitrobenzene-d5	*54*		*27 - 120*
Phenol-d5	*41*		*10 - 120*
Terphenyl-d14	*75*		*53 - 125*
2,4,6-Tribromophenol	*78*		*15 - 135*

Lab Sample ID: LCS 400-360171/4-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*34 - 120*
2-Fluorophenol	*47*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*58*		*10 - 120*
Terphenyl-d14	*82*		*53 - 125*
2,4,6-Tribromophenol	*79*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.0		ug/L		67	29 - 120	28	30
Benzoic acid	125	37.8	*	ug/L		30	10 - 150	90	30
Benzyl alcohol	30.0	19.0	*	ug/L		63	19 - 125	32	30
Bis(2-chloroethoxy)methane	30.0	20.2		ug/L		67	45 - 120	27	30
Bis(2-chloroethyl)ether	30.0	19.0	*	ug/L		63	48 - 120	31	30
bis (2-chloroisopropyl) ether	30.0	18.3		ug/L		61	30 - 125	28	30
Bis(2-ethylhexyl) phthalate	30.0	26.6		ug/L		89	48 - 150	12	30
4-Bromophenyl phenyl ether	30.0	22.1		ug/L		74	55 - 122	24	30
Butyl benzyl phthalate	30.0	26.2		ug/L		87	46 - 145	17	30
4-Chloroaniline	30.0	22.5		ug/L		75	30 - 120	27	30
4-Chloro-3-methylphenol	30.0	22.2		ug/L		74	39 - 140	24	30
2-Chloronaphthalene	30.0	21.7		ug/L		72	52 - 120	21	30
2-Chlorophenol	30.0	14.1	*	ug/L		47	34 - 120	32	30
4-Chlorophenyl phenyl ether	30.0	22.9		ug/L		76	58 - 124	24	30
Dibenz[a,h]acridine	30.0	26.4	*	ug/L		88	46 - 149	36	30
Dibenzofuran	30.0	22.7		ug/L		76	58 - 123	22	30
3,3'-Dichlorobenzidine	40.0	36.6		ug/L		91	39 - 135	24	30
2,4-Dichlorophenol	30.0	19.1		ug/L		64	39 - 128	25	30
Diethyl phthalate	30.0	22.6		ug/L		75	44 - 146	20	30
2,4-Dimethylphenol	30.0	21.1		ug/L		70	44 - 120	25	30
Dimethyl phthalate	30.0	22.7		ug/L		76	50 - 131	22	30
Di-n-butyl phthalate	30.0	25.1		ug/L		84	55 - 131	16	30
4,6-Dinitro-ortho-cresol	60.0	53.5	*	ug/L		89	10 - 150	36	30
2,4-Dinitrophenol	60.0	53.7	*	ug/L		89	10 - 150	41	30
2,4-Dinitrotoluene	30.0	24.8		ug/L		83	58 - 140	19	30
2,6-Dinitrotoluene	30.0	22.2		ug/L		74	57 - 130	21	30
Di-n-octyl phthalate	30.0	25.3		ug/L		84	50 - 150	21	30
1,4-Dioxane	30.0	14.4	*	ug/L		48	25 - 120	35	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.6		ug/L		72	47 - 123	27	30
Hexachlorobenzene	30.0	24.9		ug/L		83	52 - 131	22	30
Hexachlorocyclopentadiene	30.0	3.86	J *	ug/L		13	10 - 129	46	30
Hexachloroethane	30.0	15.2		ug/L		51	41 - 120	22	30
Indene	30.0	22.3	*	ug/L		74	47 - 120	35	30
Isophorone	30.0	21.3		ug/L		71	49 - 120	26	30
2-Methylphenol	30.0	21.0		ug/L		70	39 - 123	26	30
3 & 4 Methylphenol	30.0	18.4	J	ug/L		61	38 - 121	25	30
2-Nitroaniline	30.0	23.2		ug/L		77	47 - 150	16	30
3-Nitroaniline	30.0	23.7		ug/L		79	34 - 132	16	30
4-Nitroaniline	30.0	32.0		ug/L		107	41 - 135	13	30
Nitrobenzene	30.0	20.4		ug/L		68	47 - 120	27	30
2-Nitrophenol	30.0	16.7		ug/L		56	28 - 136	28	30
4-Nitrophenol	60.0	34.8		ug/L		58	10 - 150	11	30
N-Nitrosodimethylamine	30.0	19.9		ug/L		66	22 - 148	30	30
N-Nitrosodi-n-propylamine	30.0	20.5		ug/L		68	44 - 120	29	30
N-Nitrosodiphenylamine	29.8	22.7		ug/L		76	56 - 120	26	30
Pentachlorophenol	60.0	36.2		ug/L		60	15 - 141	29	30
Phenol	30.0	15.5		ug/L		52	33 - 120	29	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	30.0	16.0	*	ug/L		53	26 - 120	36	30
Quinoline	30.0	25.3		ug/L		84	51 - 129	24	30
2,4,5-Trichlorophenol	30.0	22.5		ug/L		75	38 - 147	23	30
2,4,6-Trichlorophenol	30.0	20.5		ug/L		68	36 - 139	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 120*
2-Fluorophenol	*25*		*10 - 120*
Nitrobenzene-d5	*66*		*27 - 120*
Phenol-d5	*51*		*10 - 120*
Terphenyl-d14	*83*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: LCSD 400-360171/5-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120	21	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*34 - 120*
2-Fluorophenol	*25*		*10 - 120*
Nitrobenzene-d5	*69*		*27 - 120*
Phenol-d5	*49*		*10 - 120*
Terphenyl-d14	*82*		*53 - 125*
2,4,6-Tribromophenol	*59*		*15 - 135*

Lab Sample ID: MB 400-362010/1-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/27/17 16:17	07/31/17 14:51	1
Benzenethiol	ND		10	1.7	ug/L		07/27/17 16:17	07/31/17 14:51	1
Benzoic acid	ND		30	7.3	ug/L		07/27/17 16:17	07/31/17 14:51	1
Benzyl alcohol	41.4		10	2.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/27/17 16:17	07/31/17 14:51	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/27/17 16:17	07/31/17 14:51	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/27/17 16:17	07/31/17 14:51	1
Bis(2-ethylhexyl) phthalate	38.0		10	2.3	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/27/17 16:17	07/31/17 14:51	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Chloroaniline	ND		10	3.4	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/27/17 16:17	07/31/17 14:51	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/27/17 16:17	07/31/17 14:51	1
2-Chlorophenol	ND		10	2.2	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/27/17 16:17	07/31/17 14:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-362010/1-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
Dibenzofuran	ND		10	0.52	ug/L		07/27/17 16:17	07/31/17 14:51	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
Diethyl phthalate	ND		10	0.70	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/27/17 16:17	07/31/17 14:51	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/27/17 16:17	07/31/17 14:51	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/27/17 16:17	07/31/17 14:51	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/27/17 16:17	07/31/17 14:51	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/27/17 16:17	07/31/17 14:51	1
1,4-Dioxane	ND		10	1.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/27/17 16:17	07/31/17 14:51	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/27/17 16:17	07/31/17 14:51	1
Hexachloroethane	ND		10	4.2	ug/L		07/27/17 16:17	07/31/17 14:51	1
Indene	ND		10	1.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
Isophorone	ND		10	0.57	ug/L		07/27/17 16:17	07/31/17 14:51	1
2-Methylphenol	ND		10	1.8	ug/L		07/27/17 16:17	07/31/17 14:51	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
2-Nitroaniline	ND		10	2.2	ug/L		07/27/17 16:17	07/31/17 14:51	1
3-Nitroaniline	ND		10	1.8	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Nitroaniline	ND		10	2.5	ug/L		07/27/17 16:17	07/31/17 14:51	1
Nitrobenzene	ND		10	0.55	ug/L		07/27/17 16:17	07/31/17 14:51	1
2-Nitrophenol	ND		10	0.65	ug/L		07/27/17 16:17	07/31/17 14:51	1
4-Nitrophenol	ND		10	2.1	ug/L		07/27/17 16:17	07/31/17 14:51	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/27/17 16:17	07/31/17 14:51	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/27/17 16:17	07/31/17 14:51	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/27/17 16:17	07/31/17 14:51	1
Pentachlorophenol	ND		20	1.8	ug/L		07/27/17 16:17	07/31/17 14:51	1
Phenol	ND		10	2.6	ug/L		07/27/17 16:17	07/31/17 14:51	1
Pyridine	ND		10	3.2	ug/L		07/27/17 16:17	07/31/17 14:51	1
Quinoline	ND		10	6.0	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/27/17 16:17	07/31/17 14:51	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/27/17 16:17	07/31/17 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 120*	*07/27/17 16:17*	*07/31/17 14:51*	*1*
2-Fluorophenol	*16*		*10 - 120*	*07/27/17 16:17*	*07/31/17 14:51*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*07/27/17 16:17*	*07/31/17 14:51*	*1*
Phenol-d5	*50*		*10 - 120*	*07/27/17 16:17*	*07/31/17 14:51*	*1*
Terphenyl-d14	*83*		*53 - 125*	*07/27/17 16:17*	*07/31/17 14:51*	*1*
2,4,6-Tribromophenol	*63*		*15 - 135*	*07/27/17 16:17*	*07/31/17 14:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-362010/2-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	21.6		ug/L		72	29 - 120
Benzoic acid	125	104		ug/L		83	10 - 150
Benzyl alcohol	30.0	45.8	*	ug/L		153	19 - 125
Bis(2-chloroethoxy)methane	30.0	21.1		ug/L		70	45 - 120
Bis(2-chloroethyl)ether	30.0	19.9		ug/L		66	48 - 120
bis (2-chloroisopropyl) ether	30.0	19.4		ug/L		65	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	27.6		ug/L		92	48 - 150
4-Bromophenyl phenyl ether	30.0	23.6		ug/L		79	55 - 122
Butyl benzyl phthalate	30.0	25.1		ug/L		84	46 - 145
4-Chloroaniline	30.0	20.6		ug/L		69	30 - 120
4-Chloro-3-methylphenol	30.0	22.6		ug/L		75	39 - 140
2-Chloronaphthalene	30.0	23.8		ug/L		79	52 - 120
2-Chlorophenol	30.0	11.5		ug/L		38	34 - 120
4-Chlorophenyl phenyl ether	30.0	24.2		ug/L		81	58 - 124
Dibenz[a,h]acridine	30.0	25.4		ug/L		85	46 - 149
Dibenzofuran	30.0	24.0		ug/L		80	58 - 123
3,3'-Dichlorobenzidine	40.0	35.0		ug/L		87	39 - 135
2,4-Dichlorophenol	30.0	19.1		ug/L		64	39 - 128
Diethyl phthalate	30.0	26.0	*	ug/L		87	44 - 146
2,4-Dimethylphenol	30.0	22.1		ug/L		74	44 - 120
Dimethyl phthalate	30.0	24.3		ug/L		81	50 - 131
Di-n-butyl phthalate	30.0	23.9		ug/L		80	55 - 131
4,6-Dinitro-ortho-cresol	60.0	10.1		ug/L		17	10 - 150
2,4-Dinitrophenol	60.0	65.6		ug/L		109	10 - 150
2,4-Dinitrotoluene	30.0	25.6		ug/L		85	58 - 140
2,6-Dinitrotoluene	30.0	23.8		ug/L		79	57 - 130
Di-n-octyl phthalate	30.0	29.5		ug/L		98	50 - 150
1,4-Dioxane	30.0	12.9		ug/L		43	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	19.7		ug/L		66	47 - 123
Hexachlorobenzene	30.0	25.4		ug/L		85	52 - 131
Hexachlorocyclopentadiene	30.0	12.6	J	ug/L		42	10 - 129
Hexachloroethane	30.0	18.1		ug/L		60	41 - 120
Indene	30.0	22.1		ug/L		74	47 - 120
Isophorone	30.0	20.6		ug/L		69	49 - 120
2-Methylphenol	30.0	19.2		ug/L		64	39 - 123
3 & 4 Methylphenol	30.0	18.5	J	ug/L		62	38 - 121
2-Nitroaniline	30.0	27.2		ug/L		91	47 - 150
3-Nitroaniline	30.0	21.4		ug/L		71	34 - 132
4-Nitroaniline	30.0	25.8		ug/L		86	41 - 135
Nitrobenzene	30.0	20.7		ug/L		69	47 - 120
2-Nitrophenol	30.0	15.1		ug/L		50	28 - 136
4-Nitrophenol	60.0	46.7		ug/L		78	10 - 150
N-Nitrosodimethylamine	30.0	22.9		ug/L		76	22 - 148
N-Nitrosodi-n-propylamine	30.0	20.5		ug/L		68	44 - 120
N-Nitrosodiphenylamine	29.8	22.1		ug/L		74	56 - 120
Pentachlorophenol	60.0	48.9		ug/L		82	15 - 141
Phenol	30.0	13.6		ug/L		45	33 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-362010/2-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	30.0	30.7		ug/L		102	26 - 120
Quinoline	30.0	24.0		ug/L		80	51 - 129
2,4,5-Trichlorophenol	30.0	22.7		ug/L		76	38 - 147
2,4,6-Trichlorophenol	30.0	21.2		ug/L		71	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*34 - 120*
2-Fluorophenol	*15*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*47*		*10 - 120*
Terphenyl-d14	*84*		*53 - 125*
2,4,6-Tribromophenol	*99*		*15 - 135*

Lab Sample ID: LCS 400-362010/4-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		*2	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*34 - 120*
2-Fluorophenol	*42*		*10 - 120*
Nitrobenzene-d5	*71*		*27 - 120*
Phenol-d5	*61*		*10 - 120*
Terphenyl-d14	*78*		*53 - 125*
2,4,6-Tribromophenol	*76*		*15 - 135*

Lab Sample ID: LCSD 400-362010/3-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	26.4		ug/L		88	29 - 120	20	30
Benzoic acid	125	10.7	J *	ug/L		9	10 - 150	163	30
Benzyl alcohol	30.0	32.2	*	ug/L		107	19 - 125	35	30
Bis(2-chloroethoxy)methane	30.0	22.9		ug/L		76	45 - 120	8	30
Bis(2-chloroethyl)ether	30.0	22.9		ug/L		76	48 - 120	14	30
bis (2-chloroisopropyl) ether	30.0	22.0		ug/L		73	30 - 125	13	30
Bis(2-ethylhexyl) phthalate	30.0	31.6		ug/L		105	48 - 150	14	30
4-Bromophenyl phenyl ether	30.0	25.9		ug/L		86	55 - 122	10	30
Butyl benzyl phthalate	30.0	28.0		ug/L		93	46 - 145	11	30
4-Chloroaniline	30.0	22.0		ug/L		73	30 - 120	7	30
4-Chloro-3-methylphenol	30.0	25.2		ug/L		84	39 - 140	11	30
2-Chloronaphthalene	30.0	27.6		ug/L		92	52 - 120	15	30
2-Chlorophenol	30.0	19.9	*	ug/L		66	34 - 120	53	30
4-Chlorophenyl phenyl ether	30.0	27.6		ug/L		92	58 - 124	13	30
Dibenz[a,h]acridine	30.0	28.0		ug/L		93	46 - 149	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-362010/3-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenzofuran	30.0	26.9		ug/L		90	58 - 123	11	30
3,3'-Dichlorobenzidine	40.0	40.0		ug/L		100	39 - 135	13	30
2,4-Dichlorophenol	30.0	24.6		ug/L		82	39 - 128	25	30
Diethyl phthalate	30.0	28.7		ug/L		96	44 - 146	10	30
2,4-Dimethylphenol	30.0	23.1		ug/L		77	44 - 120	5	30
Dimethyl phthalate	30.0	26.9		ug/L		90	50 - 131	10	30
Di-n-butyl phthalate	30.0	26.5		ug/L		88	55 - 131	10	30
4,6-Dinitro-ortho-cresol	60.0	9.59	J	ug/L		16	10 - 150	5	30
2,4-Dinitrophenol	60.0	75.1		ug/L		125	10 - 150	13	30
2,4-Dinitrotoluene	30.0	28.2		ug/L		94	58 - 140	10	30
2,6-Dinitrotoluene	30.0	26.6		ug/L		89	57 - 130	11	30
Di-n-octyl phthalate	30.0	32.0		ug/L		107	50 - 150	8	30
1,4-Dioxane	30.0	14.8		ug/L		49	25 - 120	14	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.8		ug/L		73	47 - 123	10	30
Hexachlorobenzene	30.0	28.1		ug/L		94	52 - 131	10	30
Hexachlorocyclopentadiene	30.0	15.3	J	ug/L		51	10 - 129	20	30
Hexachloroethane	30.0	23.3		ug/L		78	41 - 120	25	30
Indene	30.0	25.9		ug/L		86	47 - 120	16	30
Isophorone	30.0	22.2		ug/L		74	49 - 120	8	30
2-Methylphenol	30.0	23.5		ug/L		78	39 - 123	20	30
3 & 4 Methylphenol	30.0	22.8		ug/L		76	38 - 121	21	30
2-Nitroaniline	30.0	30.4		ug/L		101	47 - 150	11	30
3-Nitroaniline	30.0	24.2		ug/L		81	34 - 132	12	30
4-Nitroaniline	30.0	30.0		ug/L		100	41 - 135	15	30
Nitrobenzene	30.0	22.7		ug/L		76	47 - 120	9	30
2-Nitrophenol	30.0	20.9	*	ug/L		70	28 - 136	32	30
4-Nitrophenol	60.0	48.4		ug/L		81	10 - 150	4	30
N-Nitrosodimethylamine	30.0	24.7		ug/L		82	22 - 148	8	30
N-Nitrosodi-n-propylamine	30.0	22.6		ug/L		75	44 - 120	10	30
N-Nitrosodiphenylamine	29.8	23.8		ug/L		80	56 - 120	8	30
Pentachlorophenol	60.0	50.7		ug/L		84	15 - 141	3	30
Phenol	30.0	19.4	*	ug/L		65	33 - 120	35	30
Pyridine	30.0	35.8		ug/L		119	26 - 120	15	30
Quinoline	30.0	25.7		ug/L		86	51 - 129	7	30
2,4,5-Trichlorophenol	30.0	28.0		ug/L		93	38 - 147	21	30
2,4,6-Trichlorophenol	30.0	27.0		ug/L		90	36 - 139	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*34 - 120*
2-Fluorophenol	*37*		*10 - 120*
Nitrobenzene-d5	*68*		*27 - 120*
Phenol-d5	*58*		*10 - 120*
Terphenyl-d14	*84*		*53 - 125*
2,4,6-Tribromophenol	*103*		*15 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-362010/5-A
Matrix: Water
Analysis Batch: 362334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*29*		*10 - 120*
Nitrobenzene-d5	*77*		*27 - 120*
Phenol-d5	*54*		*10 - 120*
Terphenyl-d14	*83*		*53 - 125*
2,4,6-Tribromophenol	*62*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[g,h,i]perylene	0.0581	J	0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Chrysene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Fluoranthene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:22	07/13/17 16:29	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Pyrene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*15 - 122*	*07/12/17 10:22*	*07/13/17 16:29*	*1*
Nitrobenzene-d5	*82*		*19 - 130*	*07/12/17 10:22*	*07/13/17 16:29*	*1*

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	17.8		ug/L		59	41 - 120
Acenaphthylene	30.0	17.5		ug/L		58	44 - 120
Anthracene	30.0	20.4		ug/L		68	49 - 120

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	30.0	22.3		ug/L		74	61 - 135
Benzo[a]pyrene	30.0	19.1		ug/L		64	52 - 120
Benzo[b]fluoranthene	30.0	23.3		ug/L		78	53 - 134
Benzo[g,h,i]perylene	30.0	22.2		ug/L		74	47 - 133
Benzo[k]fluoranthene	30.0	21.4		ug/L		71	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	23.6		ug/L		79	48 - 146
Fluoranthene	30.0	22.8		ug/L		76	54 - 128
Fluorene	30.0	19.2		ug/L		64	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.1		ug/L		77	43 - 142
Phenanthrene	30.0	21.3		ug/L		71	48 - 120
Pyrene	30.0	18.8		ug/L		63	48 - 132
1-Methylnaphthalene	30.0	17.1		ug/L		57	41 - 120
2-Methylnaphthalene	30.0	18.4		ug/L		61	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*72*		*33 - 138*
2-Fluorobiphenyl	*66*		*15 - 122*
Nitrobenzene-d5	*48*		*19 - 130*

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	22.3		ug/L		74	41 - 120	23	56
Acenaphthylene	30.0	22.3		ug/L		74	44 - 120	24	56
Anthracene	30.0	25.9		ug/L		86	49 - 120	24	51
Benzo[a]anthracene	30.0	27.2		ug/L		91	61 - 135	20	49
Benzo[a]pyrene	30.0	23.1		ug/L		77	52 - 120	19	50
Benzo[b]fluoranthene	30.0	27.8		ug/L		93	53 - 134	18	54
Benzo[g,h,i]perylene	30.0	25.1		ug/L		84	47 - 133	12	50
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134	21	52
Chrysene	30.0	28.8		ug/L		96	55 - 122	20	50
Dibenz(a,h)anthracene	30.0	27.6		ug/L		92	48 - 146	16	50
Fluoranthene	30.0	28.1		ug/L		94	54 - 128	21	52
Fluorene	30.0	24.8		ug/L		83	45 - 125	25	56
Indeno[1,2,3-cd]pyrene	30.0	27.1		ug/L		90	43 - 142	16	51
Phenanthrene	30.0	26.7		ug/L		89	48 - 120	22	56
Pyrene	30.0	23.3		ug/L		78	48 - 132	21	52
1-Methylnaphthalene	30.0	22.2		ug/L		74	41 - 120	26	55
2-Methylnaphthalene	30.0	23.2		ug/L		77	32 - 124	23	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*82*		*33 - 138*
2-Fluorobiphenyl	*79*		*15 - 122*
Nitrobenzene-d5	*60*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-360468/1-A
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360468

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		07/14/17 10:54	07/21/17 17:07	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/14/17 10:54	07/21/17 17:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*157*	*X*	*51 - 149*	*07/14/17 10:54*	*07/21/17 17:07*	*1*

Lab Sample ID: LCS 400-360468/2-A
Matrix: Water
Analysis Batch: 361080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.105		ug/L		105	60 - 140
1,2-Dibromoethane	0.100	0.0892		ug/L		89	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*51 - 149*

Lab Sample ID: 400-140267-D-5-B MS
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 360468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND	F1	0.0989	0.151	F1	ug/L		153	65 - 135
1,2-Dibromoethane	ND	F2	0.0989	0.169	F1	ug/L		171	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*130*		*51 - 149*

Lab Sample ID: 400-140267-D-5-C MSD
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 360468

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	0.0975	0.146	F1	ug/L		150	65 - 135	4	20
1,2-Dibromoethane	ND	F2 F1	0.0975	0.134	F1 F2	ug/L		137	65 - 135	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*120*		*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:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
Bob Billman	25278	DATE: 07/10/17
PO #	GSAP Project ID	PAGE: 1 of 2
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02	

SAMPLING COMPANY: AECOM
LOG CODE:
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SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO:
E-MAIL:
AECOM Other ID:
SAMPLER NAME(S) (Print): J. Peters, M. Karrick, J. Roberts, J. Clark
LAB USE ONLY

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

☐ LA-RWQCB REPORT FORMAT
DELIVERABLES ☑ LLEVEL 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 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW4-ROX-071017	07/10	1010	Water	4			2		6	X	X	X	X	Cooler #1
	MW25-ROX-071017-EB	07/10	1105	Water	4			2		6	X	X	X	X	Cooler #1
	MW25-ROX-071017	07/10	1155	Water	4			2		6	X	X	X	X	Cooler #1
	MW8-ROX-071017	07/10	1420	Water	4			2		6	X	X	X	X	Cooler #1
	TB-ROX-071017-8011	07/10	0000	Water	2					2	X				Cooler #2
	TB-ROX-071017-8260	07/10	0000	Water	2					2			X		Cooler #2

TEMPERATURE ON RECEIPT: 4.1°C, 2.5°C, 4.2°C, 1.2
400-140344 COC

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Meg K	Fedex	07/10/17	1730
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		7/10/17	847
Relinquished by: Signature	Received by: (Signature)	Date	Time

Vaas in cooler #2

Page 100 of 103

8/2/2017

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:	PlaNet Site or Project ID
Bob Billman	25278
PO #	GSAP Project ID
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 07/10/17

PAGE: 2 of 2

SAMPLING COMPANY: AECOM

LOG CODE:

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

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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

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

PHONE NO:

E-MAIL:

AECOM Offer ID:

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

SAMPLER NAME(S) (Print): J. Roberts, J. Clark, J. Peters, M. Karrick

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; melissa.remiger@aecom.com

TURNAROUND TIME (BUSINESS DAYS)

☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAY ☐ 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 DISA

REQUESTED ANALYSIS

UNIT COST 60527968 - 1.03.0033: VOC 8011; PAH 8270LL

NON-UNIT COST 60527968 - 1.03.003: 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	Container PID Readings or Laboratory Notes
	MW16-ROX-071017-EB	7/10/17	1015	Water	4			2		6	X	X	X	X	Cooler #3
	MW16-ROX-071017	7/10/17	1105	Water	4			2		6	X	X	X	X	Cooler #3
	P54-ROX-071017	7/10/17	1200	Water	4			2		6	X	X	X	X	Cooler #3
	MW11-ROX-071017	7/10/17	1400	Water	4			2		6	X	X	X	X	Cooler #2
	MW27-ROX-071017	7/10/17	1510	Water	4			2		6	X	X	X	X	Cooler #2
	TB-ROX-071017-8260-A	7/10/17	0000	Water	2					2			X		Cooler #2
	TB-ROX-071017-8011-A	7/10/17	0000	Water	2					2	X				Cooler #2

Jillian Roberts

	Relinquished by (Signature)	Received by (Signature)	Date	Time
	Jillian Roberts	FedEx	07/10/17	1730
			7/11/17	847

Version 14Dec15

ALL VOAs in cooler #2.

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140344-1

Login Number: 140344
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	4.1°C, 4.2°C, 4.3°CIR2
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	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140344-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140347-1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/22/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
MW23-ROX-071017	TB-ROX-071017-8260
TB-ROX-071017-8011	

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 benzo[g,h,i]perylene was detected in the method blank. Several 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 the method blank. The Method 8260 VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample MW23-ROX-071017. The continuing calibration verification for hexachlorocyclopentadiene was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for 1,2-dibromo-3-chloropropane and 1,2-dibromoethane were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification.

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 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
MB 400-360171/1-A	PAHs	Benzo[g,h,i]perylene	0.0581 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/ LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Benzoic acid	50/30	**90**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Benzyl alcohol	46/63	**32**	19-125/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Bis(2-chloroethyl)ether	**46**/63	**31**	48-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	2-Chlorophenol	34/47	**32**	34-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Dibenz[a,h]acridine	62/88	**36**	46-149/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	4,6-Dinitro-ortho-cresol	62/89	**36**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	2,4-Dinitrophenol	59/89	**41**	10-150/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	1,4-Dioxane	33/48	**35**	25-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Hexachlorocyclopentadiene	**8**/13	**46**	10-129/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Indene	52/74	**35**	47-120/30
LCS/LCSD 400-360171/2-A/3-A	SVOCs	Pyridine	37/53	**36**	26-120/30

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Analytical data associated with RPD alone outside evaluation criteria did not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW23-ROX-071017	SVOCs	Bis(2-chloroethyl)ether	**UJ**
MW23-ROX-071017	SVOCs	Hexachlorocyclopentadiene	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MB 400-360659/1-A	VOCs by 8011	4-Bromofluorobenzene	**152**	51-149

Qualifications due to surrogate recoveries were not required for the quality control sample MB 400-360659/1-A. Quality control samples 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 MW23-ROX-071017 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
MW23-ROX-071017	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

Analytical data that required qualification based on MS/MSD data are included in the table below.

Sample ID	Parameter	Analyte	Qualification
MW23-ROX-071017	VOCs	2-Chloroethyl vinyl ether	**UJ**

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

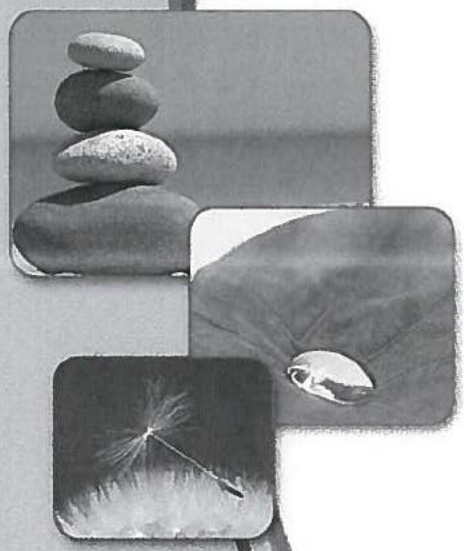
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for hexachlorocyclopentadiene was below acceptance criteria; hexachlorocyclopentadiene was previously qualified due to LCS criteria in Section 5.0 of this review. No additional qualification 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: 400-140347-1
Client Project/Site: ROXANA QUARTERLY

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:
7/31/2017 6:26:23 AM

Carolyn Hooper, Project Manager I
(850)471-6226
carolyn.hooper@testamericainc.com

LINKS

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Reviewed 8/22/17 ER

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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Detection Summary 5
Client Sample Results 6
Definitions 13
Surrogate Summary 14
Method Summary 16
Chronicle 17
QC Association 20
QC Sample Results 22
Chain of Custody 36
Receipt Checklists 37
Certification Summary 38

Job ID: 400-140347-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140347-1

Receipt
The samples were received on 7/11/2017 8:42 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.1°C and 4.2°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: MW23-ROX-071017 (400-140347-1) and TB-ROX-071017-8260 (400-140347-2). 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 400-360800 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 400-360800 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 400-360434 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 following analytes recovered outside control limits for the LCS/LCSD associated with preparation batch 400-360171 and analytical batch 400-360434: Bis(2-chloroethyl)ether and Hexachlorocyclopentadiene. 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 sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-360171 and analytical batch 400-360434 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, Bis(2-chloroethyl)ether, Indene, Dibenz[a,h]acridine, Benzoic acid, 4,6-Dinitro-ortho-cresol, 2-Chlorophenol, 1,4-Dioxane, Pyridine and Benzyl alcohol.

Method 8270D LL:
The method blank for preparation batch 400-360171 and analytical batch 400-360412 contained Benzo[g,h,i]perylene 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:
The continuing calibration verification (CCV) associated with batches 400-361080 and 400-361571 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane and 1,2-Dibromoethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW23-ROX-071017 (400-140347-1) and TB-ROX-071017-8011 (400-140347-3) and (MB 400-360659/1-A).

Surrogate recovery for the following sample was outside the upper control limit: (MB 400-360659/1-A). This 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 (MS/MSD) associated with preparation batch 400-360171.

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

TestAmerica Job ID: 400-140347-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140347-1	MW23-ROX-071017	Water	07/10/17 09:35	07/11/17 08:42
400-140347-2	TB-ROX-071017-8260	Water	07/10/17 00:00	07/11/17 08:42
400-140347-3	TB-ROX-071017-8011	Water	07/10/17 00:00	07/11/17 08:42

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Client Sample ID: MW23-ROX-071017 — Lab Sample ID: 400-140347-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	3.0	J	9.5	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: TB-ROX-071017-8260 — Lab Sample ID: 400-140347-2

No Detections.

Client Sample ID: TB-ROX-071017-8011 — Lab Sample ID: 400-140347-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Client Sample ID: MW23-ROX-071017
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-1
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			07/18/17 13:36	1
Acrolein	ND		20	10	ug/L			07/18/17 13:36	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 13:36	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 13:36	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 13:36	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 13:36	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 13:36	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 13:36	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 13:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 13:36	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			07/18/17 13:36	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 13:36	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 13:36	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 13:36	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 13:36	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 13:36	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 13:36	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 13:36	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 13:36	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 13:36	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 13:36	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 13:36	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 13:36	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 13:36	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 13:36	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 13:36	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 13:36	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 13:36	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 13:36	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 13:36	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 13:36	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 13:36	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 13:36	1

Client Sample ID: MW23-ROX-071017
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-1
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			07/18/17 13:36	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 13:36	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 13:36	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 13:36	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 13:36	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 13:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 13:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 13:36	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:36	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 13:36	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 13:36	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 13:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 13:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 13:36	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 13:36	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 13:36	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 13:36*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 13:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/18/17 13:36*	*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		07/12/17 10:23	07/13/17 21:05	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
Anthracene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Chrysene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Fluoranthene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
Fluorene	ND		0.19	0.020	ug/L		07/12/17 10:23	07/13/17 21:05	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/12/17 10:23	07/13/17 21:05	1
Phenanthrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
Pyrene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/12/17 10:23	07/13/17 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*70*		*33 - 138*	*07/12/17 10:23*	*07/13/17 21:05*	*1*
2-Fluorobiphenyl	*74*		*15 - 122*	*07/12/17 10:23*	*07/13/17 21:05*	*1*

Client Sample ID: MW23-ROX-071017
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*52*		*19 - 130*	*07/12/17 10:23*	*07/13/17 21:05*	*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		07/12/17 10:23	07/20/17 13:05	1
Benzenethiol	ND		9.5	1.6	ug/L		07/12/17 10:23	07/20/17 13:05	1
Benzoic acid	ND	*	29	7.0	ug/L		07/12/17 10:23	07/20/17 13:05	1
Benzyl alcohol	ND	*	9.5	1.9	ug/L		07/12/17 10:23	07/20/17 13:05	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		07/12/17 10:23	07/20/17 13:05	1
Bis(2-chloroethyl)ether	ND	* UJ	9.5	0.71	ug/L		07/12/17 10:23	07/20/17 13:05	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		07/12/17 10:23	07/20/17 13:05	1
Bis(2-ethylhexyl) phthalate	**3.0**	**J**	9.5	2.2	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Bromophenyl phenyl ether	ND		9.5	0.31	ug/L		07/12/17 10:23	07/20/17 13:05	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Chloroaniline	ND		9.5	3.2	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		07/12/17 10:23	07/20/17 13:05	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		07/12/17 10:23	07/20/17 13:05	1
2-Chlorophenol	ND	*	9.5	2.1	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		07/12/17 10:23	07/20/17 13:05	1
Dibenz[a,h]acridine	ND	*	9.5	2.9	ug/L		07/12/17 10:23	07/20/17 13:05	1
Dibenzofuran	ND		9.5	0.50	ug/L		07/12/17 10:23	07/20/17 13:05	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		07/12/17 10:23	07/20/17 13:05	1
Diethyl phthalate	ND		9.5	0.67	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		07/12/17 10:23	07/20/17 13:05	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		07/12/17 10:23	07/20/17 13:05	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		07/12/17 10:23	07/20/17 13:05	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4-Dinitrophenol	ND	*	29	3.2	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		07/12/17 10:23	07/20/17 13:05	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		07/12/17 10:23	07/20/17 13:05	1
1,4-Dioxane	ND	*	9.5	0.95	ug/L		07/12/17 10:23	07/20/17 13:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		07/12/17 10:23	07/20/17 13:05	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		07/12/17 10:23	07/20/17 13:05	1
Hexachlorocyclopentadiene	ND	* UJ	19	2.5	ug/L		07/12/17 10:23	07/20/17 13:05	1
Hexachloroethane	ND		9.5	4.0	ug/L		07/12/17 10:23	07/20/17 13:05	1
Indene	ND	*	9.5	0.95	ug/L		07/12/17 10:23	07/20/17 13:05	1
Isophorone	ND		9.5	0.54	ug/L		07/12/17 10:23	07/20/17 13:05	1
2-Methylphenol	ND		9.5	1.7	ug/L		07/12/17 10:23	07/20/17 13:05	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/12/17 10:23	07/20/17 13:05	1
2-Nitroaniline	ND		9.5	2.1	ug/L		07/12/17 10:23	07/20/17 13:05	1
3-Nitroaniline	ND		9.5	1.7	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Nitroaniline	ND		9.5	2.4	ug/L		07/12/17 10:23	07/20/17 13:05	1
Nitrobenzene	ND		9.5	0.52	ug/L		07/12/17 10:23	07/20/17 13:05	1
2-Nitrophenol	ND		9.5	0.62	ug/L		07/12/17 10:23	07/20/17 13:05	1
4-Nitrophenol	ND		9.5	2.0	ug/L		07/12/17 10:23	07/20/17 13:05	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		07/12/17 10:23	07/20/17 13:05	1

Client Sample ID: MW23-ROX-071017
Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-1
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		07/12/17 10:23	07/20/17 13:05	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		07/12/17 10:23	07/20/17 13:05	1
Pentachlorophenol	ND		19	1.7	ug/L		07/12/17 10:23	07/20/17 13:05	1
Phenol	ND		9.5	2.5	ug/L		07/12/17 10:23	07/20/17 13:05	1
Pyridine	ND	*	9.5	3.1	ug/L		07/12/17 10:23	07/20/17 13:05	1
Quinoline	ND		9.5	5.7	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		07/12/17 10:23	07/20/17 13:05	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		07/12/17 10:23	07/20/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*07/12/17 10:23*	*07/20/17 13:05*	*1*
2-Fluorophenol	*32*		*10 - 120*	*07/12/17 10:23*	*07/20/17 13:05*	*1*
Nitrobenzene-d5	*59*		*27 - 120*	*07/12/17 10:23*	*07/20/17 13:05*	*1*
Phenol-d5	*46*		*10 - 120*	*07/12/17 10:23*	*07/20/17 13:05*	*1*
Terphenyl-d14	*62*		*53 - 125*	*07/12/17 10:23*	*07/20/17 13:05*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*07/12/17 10:23*	*07/20/17 13:05*	*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		07/17/17 08:31	07/20/17 08:40	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/17/17 08:31	07/20/17 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*51 - 149*	*07/17/17 08:31*	*07/20/17 08:40*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Client Sample ID: TB-ROX-071017-8260
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-2
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			07/18/17 13:09	1
Acrolein	ND		20	10	ug/L			07/18/17 13:09	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 13:09	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 13:09	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 13:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 13:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 13:09	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 13:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 13:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 13:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 13:09	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 13:09	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 13:09	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 13:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 13:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 13:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 13:09	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 13:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 13:09	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 13:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 13:09	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 13:09	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 13:09	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 13:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 13:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 13:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 13:09	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 13:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 13:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 13:09	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Client Sample ID: TB-ROX-071017-8260
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-2
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			07/18/17 13:09	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 13:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 13:09	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 13:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 13:09	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 13:09	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 13:09	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 13:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 13:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 13:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 13:09	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 13:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 13:09	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 13:09*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 13:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 13:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Client Sample ID: TB-ROX-071017-8011
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:42

Lab Sample ID: 400-140347-3
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		0.032	0.0058	ug/L		07/17/17 08:31	07/20/17 08:59	1
1,2-Dibromoethane	ND		0.021	0.0053	ug/L		07/17/17 08:31	07/20/17 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*51 - 149*	*07/17/17 08:31*	*07/20/17 08:59*	*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
*	RPD of the LCS and LCSD exceeds the control 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 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 400-140347-1

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)
400-140347-1	MW23-ROX-071017	101	102	99
400-140347-1 MS	MW23-ROX-071017	100	103	99
400-140347-1 MSD	MW23-ROX-071017	101	103	98
400-140347-2	TB-ROX-071017-8260	101	102	98
LCS 400-360800/1003	Lab Control Sample	101	104	97
MB 400-360800/5	Method Blank	101	101	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)
400-140347-1	MW23-ROX-071017	76	32	59	46	62	83
LCS 400-360171/2-A	Lab Control Sample	59	19	54	41	75	78
LCSD 400-360171/3-A	Lab Control Sample Dup	70	25	66	51	83	89
MB 400-360171/1-A	Method Blank	94	29	96	44	97	104

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)
400-140347-1	MW23-ROX-071017	70	74	52
LCS 400-360171/2-A	Lab Control Sample	72	66	48
LCSD 400-360171/3-A	Lab Control Sample Dup	82	79	60
MB 400-360171/1-A	Method Blank		100	82

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

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)**
400-140347-1	MW23-ROX-071017	117
400-140347-3	TB-ROX-071017-8011	109
LCSD 400-360659/3-A	Lab Control Sample Dup	64
MB 400-360659/1-A	Method Blank	152 X

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

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: MW23-ROX-071017

Lab Sample ID: 400-140347-1

Date Collected: 07/10/17 09:35

Matrix: Water

Date Received: 07/11/17 08:42

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	360800	07/18/17 13:36	SAB	TAL PEN
Total/NA	Prep	3520C			1048.2 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 13:05	S1B	TAL PEN
Total/NA	Prep	3520C			1048.2 mL	1.0 mL	360171	07/12/17 10:23	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 21:05	MAM	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	360659	07/17/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			361080	07/20/17 08:40	DS	TAL PEN

Client Sample ID: TB-ROX-071017-8260

Lab Sample ID: 400-140347-2

Date Collected: 07/10/17 00:00

Matrix: Water

Date Received: 07/11/17 08:42

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	360800	07/18/17 13:09	SAB	TAL PEN

Client Sample ID: TB-ROX-071017-8011

Lab Sample ID: 400-140347-3

Date Collected: 07/10/17 00:00

Matrix: Water

Date Received: 07/11/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.3 mL	35 mL	360659	07/17/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			361080	07/20/17 08:59	DS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360171/1-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 15:17	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360412	07/13/17 16:29	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360659/1-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	360659	07/17/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 14:02	DS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360800/5

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	360800	07/18/17 12:14	SAB	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360171/2-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 15:48	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			360412	07/13/17 16:52	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360659/2-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	360659	07/17/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			360891	07/18/17 14:56	MAM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360800/1003

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	360800	07/18/17 11:16	SAB	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-360171/3-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	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D		1			360434	07/14/17 16:18	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360171	07/12/17 10:22	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			360412	07/13/17 17:15	MAM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-360659/3-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	360659	07/17/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			360891	07/18/17 15:55	MAM	TAL PEN

Client Sample ID: MW23-ROX-071017

Lab Sample ID: 400-140347-1 MS

Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:04	SAB	TAL PEN

Client Sample ID: MW23-ROX-071017

Lab Sample ID: 400-140347-1 MSD

Date Collected: 07/10/17 09:35
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:31	SAB	TAL PEN

Laboratory References:

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

GC/MS VOA

Analysis Batch: 360800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	8260B	
400-140347-2	TB-ROX-071017-8260	Total/NA	Water	8260B	
MB 400-360800/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360800/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140347-1 MS	MW23-ROX-071017	Total/NA	Water	8260B	
400-140347-1 MSD	MW23-ROX-071017	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 360171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	3520C	
MB 400-360171/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 360412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	8270D LL	360171
MB 400-360171/1-A	Method Blank	Total/NA	Water	8270D LL	360171
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	8270D LL	360171
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	360171

Analysis Batch: 360434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-360171/1-A	Method Blank	Total/NA	Water	8270D	360171
LCS 400-360171/2-A	Lab Control Sample	Total/NA	Water	8270D	360171
LCSD 400-360171/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360171

Analysis Batch: 361135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	8270D	360171

GC Semi VOA

Prep Batch: 360659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	8011	
400-140347-3	TB-ROX-071017-8011	Total/NA	Water	8011	
MB 400-360659/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-360659/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-360659/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 360891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-360659/2-A	Lab Control Sample	Total/NA	Water	8011	360659
LCSD 400-360659/3-A	Lab Control Sample Dup	Total/NA	Water	8011	360659

GC Semi VOA (Continued)

Analysis Batch: 361080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140347-1	MW23-ROX-071017	Total/NA	Water	8011	360659
400-140347-3	TB-ROX-071017-8011	Total/NA	Water	8011	360659

Analysis Batch: 361571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-360659/1-A	Method Blank	Total/NA	Water	8011	360659

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
Acrolein	ND		20	10	ug/L			07/18/17 12:14	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 12:14	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 12:14	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 12:14	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 12:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 12:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 12:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 12:14	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 12:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 12:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 12:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 12:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 12:14	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 12:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 12:14	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 12:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 12:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 12:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 12:14	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 12:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 12:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 12:14	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 12:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 12:14	1

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 12:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 12:14	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 12:14	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 12:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 12:14	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 12:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 12:14*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 12:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 12:14*	*1*

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	184		ug/L		92	43 - 160
Acrolein	500	510		ug/L		102	38 - 160
Acrylonitrile	500	508		ug/L		102	64 - 142
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromobenzene	50.0	49.1		ug/L		98	70 - 132
Bromochloromethane	50.0	56.6		ug/L		113	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 133
Bromoform	50.0	46.6		ug/L		93	57 - 140
Bromomethane	50.0	52.0		ug/L		104	10 - 160
2-Butanone (MEK)	200	202		ug/L		101	61 - 145
Carbon disulfide	50.0	44.3		ug/L		89	61 - 137
Carbon tetrachloride	50.0	48.6		ug/L		97	61 - 137
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	50.0	49.3		ug/L		99	67 - 135
Chloroethane	50.0	48.8		ug/L		98	55 - 141

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	27.1		ug/L		54	10 - 160
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	45.7		ug/L		91	69 - 130
Chloromethane	50.0	50.5		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	67 - 130
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	47.4		ug/L		95	41 - 146
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	63 - 134
1,2-Dichloropropane	50.0	48.0		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	48.5		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	50.8		ug/L		102	52 - 135
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Ethyl methacrylate	50.0	49.5		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	48.4		ug/L		97	53 - 140
2-Hexanone	200	201		ug/L		100	65 - 137
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
Methylene bromide	50.0	51.1		ug/L		102	70 - 130
Methylene Chloride	50.0	48.1		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	69 - 138
Methyl tert-butyl ether	50.0	48.5		ug/L		97	66 - 130
m-Xylene & p-Xylene	50.0	47.9		ug/L		96	70 - 130
Naphthalene	50.0	49.6		ug/L		99	47 - 149
n-Butylbenzene	50.0	48.7		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.7		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	48.2		ug/L		96	70 - 130
p-Chlorotoluene	50.0	48.6		ug/L		97	70 - 130
p-Isopropyltoluene	50.0	49.2		ug/L		98	65 - 130
sec-Butylbenzene	50.0	48.4		ug/L		97	66 - 130
Styrene	50.0	49.0		ug/L		98	70 - 130
tert-Butylbenzene	50.0	48.2		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.6		ug/L		101	65 - 130
Toluene	50.0	46.7		ug/L		93	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	60 - 138
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 130

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	47.7		ug/L		95	65 - 138
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	48.0		ug/L		96	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140347-1 MS
Matrix: Water
Analysis Batch: 360800

Client Sample ID: MW23-ROX-071017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	199		ug/L		99	43 - 160
Acrolein	ND		500	562		ug/L		112	38 - 160
Acrylonitrile	ND		500	560		ug/L		112	62 - 149
Benzene	ND		50.0	45.9		ug/L		92	56 - 142
Bromobenzene	ND		50.0	47.6		ug/L		95	59 - 136
Bromochloromethane	ND		50.0	58.4		ug/L		117	64 - 140
Bromodichloromethane	ND		50.0	48.2		ug/L		96	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	34.4		ug/L		69	10 - 160
2-Butanone (MEK)	ND		200	227		ug/L		114	55 - 150
Carbon disulfide	ND		50.0	41.3		ug/L		83	48 - 152
Carbon tetrachloride	ND		50.0	44.8		ug/L		90	55 - 145
Chlorobenzene	ND		50.0	45.7		ug/L		91	64 - 130
Dibromochloromethane	ND		50.0	50.3		ug/L		101	56 - 143
Chloroethane	ND		50.0	39.8		ug/L		80	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.6		ug/L		97	60 - 141
1-Chlorohexane	ND		50.0	40.5		ug/L		81	56 - 136
Chloromethane	ND		50.0	45.0		ug/L		90	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.7		ug/L		93	52 - 137
1,3-Dichlorobenzene	ND		50.0	45.5		ug/L		91	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.4		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	44.6		ug/L		89	16 - 160
1,1-Dichloroethane	ND		50.0	47.8		ug/L		96	61 - 144
1,2-Dichloroethane	ND		50.0	50.2		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	45.5		ug/L		91	54 - 147
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	51.1		ug/L		102	66 - 133

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

Lab Sample ID: 400-140347-1 MS
Matrix: Water
Analysis Batch: 360800

Client Sample ID: MW23-ROX-071017
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	47.9		ug/L		96	42 - 144
1,1-Dichloropropene	ND		50.0	45.2		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	44.4		ug/L		89	58 - 131
Ethyl methacrylate	ND		50.0	52.2		ug/L		104	64 - 130
Hexachlorobutadiene	ND		50.0	39.9		ug/L		80	31 - 149
2-Hexanone	ND		200	227		ug/L		113	65 - 140
Isopropylbenzene	ND		50.0	43.4		ug/L		87	56 - 133
Methylene bromide	ND		50.0	54.0		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	47.9		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	224		ug/L		112	63 - 146
Methyl tert-butyl ether	ND		50.0	50.5		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.8		ug/L		88	57 - 130
Naphthalene	ND		50.0	51.5		ug/L		103	25 - 160
n-Butylbenzene	ND		50.0	41.1		ug/L		82	41 - 142
N-Propylbenzene	ND		50.0	42.9		ug/L		86	51 - 138
o-Chlorotoluene	ND		50.0	44.8		ug/L		90	53 - 134
o-Xylene	ND		50.0	45.1		ug/L		90	61 - 130
p-Chlorotoluene	ND		50.0	44.3		ug/L		89	54 - 133
p-Isopropyltoluene	ND		50.0	42.6		ug/L		85	48 - 139
sec-Butylbenzene	ND		50.0	42.3		ug/L		85	50 - 138
Styrene	ND		50.0	46.1		ug/L		92	58 - 131
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.1		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	41.5		ug/L		83	52 - 133
Toluene	ND		50.0	45.0		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.6		ug/L		93	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.9		ug/L		96	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.5		ug/L		93	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	44.9		ug/L		90	39 - 148
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	57 - 142
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	66 - 131
Trichloroethene	ND		50.0	45.4		ug/L		91	64 - 136
Trichlorofluoromethane	ND		50.0	45.4		ug/L		91	54 - 156
1,2,3-Trichloropropane	ND		50.0	55.0		ug/L		110	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	44.0		ug/L		88	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	43.4		ug/L		87	52 - 135
Vinyl acetate	ND		100	117		ug/L		117	26 - 160
Vinyl chloride	ND		50.0	45.2		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 400-140347-1 MSD
Matrix: Water
Analysis Batch: 360800

Client Sample ID: MW23-ROX-071017
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	166		ug/L		83	43 - 160	18	30
Acrolein	ND		500	518		ug/L		104	38 - 160	8	31
Acrylonitrile	ND		500	501		ug/L		100	62 - 149	11	30
Benzene	ND		50.0	45.8		ug/L		92	56 - 142	0	30
Bromobenzene	ND		50.0	45.3		ug/L		91	59 - 136	5	30
Bromochloromethane	ND		50.0	55.3		ug/L		111	64 - 140	5	30
Bromodichloromethane	ND		50.0	46.5		ug/L		93	59 - 143	3	30
Bromoform	ND		50.0	43.5		ug/L		87	50 - 140	8	30
Bromomethane	ND		50.0	40.3		ug/L		81	10 - 160	16	50
2-Butanone (MEK)	ND		200	199		ug/L		99	55 - 150	13	30
Carbon disulfide	ND		50.0	42.0		ug/L		84	48 - 152	2	30
Carbon tetrachloride	ND		50.0	46.0		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	44.7		ug/L		89	64 - 130	2	30
Dibromochloromethane	ND		50.0	47.3		ug/L		95	56 - 143	6	30
Chloroethane	ND		50.0	41.0		ug/L		82	50 - 151	3	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.5		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	40.8		ug/L		82	56 - 136	1	30
Chloromethane	ND		50.0	47.1		ug/L		94	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	46.0		ug/L		92	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	44.9		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	44.6		ug/L		89	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	43.7		ug/L		87	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	47.4		ug/L		95	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	46.3		ug/L		93	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	46.8		ug/L		94	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	47.6		ug/L		95	66 - 133	7	30
2,2-Dichloropropane	ND		50.0	48.7		ug/L		97	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	45.6		ug/L		91	65 - 136	1	30
Ethylbenzene	ND		50.0	43.9		ug/L		88	58 - 131	1	30
Ethyl methacrylate	ND		50.0	47.2		ug/L		94	64 - 130	10	30
Hexachlorobutadiene	ND		50.0	42.1		ug/L		84	31 - 149	5	36
2-Hexanone	ND		200	192		ug/L		96	65 - 140	17	30
Isopropylbenzene	ND		50.0	43.9		ug/L		88	56 - 133	1	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	46.7		ug/L		93	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	192		ug/L		96	63 - 146	15	30
Methyl tert-butyl ether	ND		50.0	47.6		ug/L		95	59 - 137	6	30
m-Xylene & p-Xylene	ND		50.0	43.6		ug/L		87	57 - 130	0	30
Naphthalene	ND		50.0	46.8		ug/L		94	25 - 160	10	30
n-Butylbenzene	ND		50.0	42.8		ug/L		86	41 - 142	4	31
N-Propylbenzene	ND		50.0	43.1		ug/L		86	51 - 138	0	30
o-Chlorotoluene	ND		50.0	44.1		ug/L		88	53 - 134	2	30
o-Xylene	ND		50.0	44.2		ug/L		88	61 - 130	2	30
p-Chlorotoluene	ND		50.0	43.8		ug/L		88	54 - 133	1	30

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

Lab Sample ID: 400-140347-1 MSD
Matrix: Water
Analysis Batch: 360800

Client Sample ID: MW23-ROX-071017
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	43.5		ug/L		87	48 - 139	2	30
sec-Butylbenzene	ND		50.0	43.1		ug/L		86	50 - 138	2	30
Styrene	ND		50.0	45.0		ug/L		90	58 - 131	2	30
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146	0	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135	13	30
Tetrachloroethene	ND		50.0	41.9		ug/L		84	52 - 133	1	30
Toluene	ND		50.0	44.2		ug/L		88	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	61 - 143	0	30
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	44.2		ug/L		88	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	43.4		ug/L		87	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	48.0		ug/L		96	66 - 131	8	30
Trichloroethene	ND		50.0	45.5		ug/L		91	64 - 136	0	30
Trichlorofluoromethane	ND		50.0	47.8		ug/L		96	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	48.2		ug/L		96	65 - 133	13	30
1,2,4-Trimethylbenzene	ND		50.0	43.4		ug/L		87	50 - 139	1	30
1,3,5-Trimethylbenzene	ND		50.0	43.6		ug/L		87	52 - 135	1	30
Vinyl acetate	ND		100	114		ug/L		114	26 - 160	3	33
Vinyl chloride	ND		50.0	47.0		ug/L		94	46 - 152	4	30
Xylenes, Total	ND		100	87.9		ug/L		88	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzenethiol	ND		10	1.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzoic acid	ND		30	7.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
Benzyl alcohol	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/12/17 10:22	07/14/17 15:17	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/12/17 10:22	07/14/17 15:17	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/12/17 10:22	07/14/17 15:17	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chloroaniline	ND		10	3.4	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/12/17 10:22	07/14/17 15:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dibenzofuran	ND		10	0.52	ug/L		07/12/17 10:22	07/14/17 15:17	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Diethyl phthalate	ND		10	0.70	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/12/17 10:22	07/14/17 15:17	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/12/17 10:22	07/14/17 15:17	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/12/17 10:22	07/14/17 15:17	1
1,4-Dioxane	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
Hexachloroethane	ND		10	4.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
Indene	ND		10	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
Isophorone	ND		10	0.57	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Methylphenol	ND		10	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Nitroaniline	ND		10	2.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
3-Nitroaniline	ND		10	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Nitroaniline	ND		10	2.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
Nitrobenzene	ND		10	0.55	ug/L		07/12/17 10:22	07/14/17 15:17	1
2-Nitrophenol	ND		10	0.65	ug/L		07/12/17 10:22	07/14/17 15:17	1
4-Nitrophenol	ND		10	2.1	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/12/17 10:22	07/14/17 15:17	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/12/17 10:22	07/14/17 15:17	1
Pentachlorophenol	ND		20	1.8	ug/L		07/12/17 10:22	07/14/17 15:17	1
Phenol	ND		10	2.6	ug/L		07/12/17 10:22	07/14/17 15:17	1
Pyridine	ND		10	3.2	ug/L		07/12/17 10:22	07/14/17 15:17	1
Quinoline	ND		10	6.0	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/12/17 10:22	07/14/17 15:17	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/12/17 10:22	07/14/17 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
2-Fluorophenol	*29*		*10 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Nitrobenzene-d5	*96*		*27 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Phenol-d5	*44*		*10 - 120*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
Terphenyl-d14	*97*		*53 - 125*	*07/12/17 10:22*	*07/14/17 15:17*	*1*
2,4,6-Tribromophenol	*104*		*15 - 135*	*07/12/17 10:22*	*07/14/17 15:17*	*1*

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	15.1		ug/L		50	29 - 120
Benzoic acid	125	14.4	J	ug/L		11	10 - 150
Benzyl alcohol	30.0	13.8		ug/L		46	19 - 125
Bis(2-chloroethoxy)methane	30.0	15.4		ug/L		51	45 - 120
Bis(2-chloroethyl)ether	30.0	13.8	*	ug/L		46	48 - 120
bis (2-chloroisopropyl) ether	30.0	13.7		ug/L		46	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	23.6		ug/L		79	48 - 150
4-Bromophenyl phenyl ether	30.0	17.4		ug/L		58	55 - 122
Butyl benzyl phthalate	30.0	22.1		ug/L		74	46 - 145
4-Chloroaniline	30.0	17.2		ug/L		57	30 - 120
4-Chloro-3-methylphenol	30.0	17.5		ug/L		58	39 - 140
2-Chloronaphthalene	30.0	17.5		ug/L		58	52 - 120
2-Chlorophenol	30.0	10.2		ug/L		34	34 - 120
4-Chlorophenyl phenyl ether	30.0	18.0		ug/L		60	58 - 124
Dibenz[a,h]acridine	30.0	18.5		ug/L		62	46 - 149
Dibenzofuran	30.0	18.2		ug/L		61	58 - 123
3,3'-Dichlorobenzidine	40.0	28.8		ug/L		72	39 - 135
2,4-Dichlorophenol	30.0	14.9		ug/L		50	39 - 128
Diethyl phthalate	30.0	18.5		ug/L		62	44 - 146
2,4-Dimethylphenol	30.0	16.3		ug/L		54	44 - 120
Dimethyl phthalate	30.0	18.3		ug/L		61	50 - 131
Di-n-butyl phthalate	30.0	21.5		ug/L		72	55 - 131
4,6-Dinitro-ortho-cresol	60.0	37.2		ug/L		62	10 - 150
2,4-Dinitrophenol	60.0	35.5		ug/L		59	10 - 150
2,4-Dinitrotoluene	30.0	20.5		ug/L		68	58 - 140
2,6-Dinitrotoluene	30.0	18.0		ug/L		60	57 - 130
Di-n-octyl phthalate	30.0	20.4		ug/L		68	50 - 150
1,4-Dioxane	30.0	10.0		ug/L		33	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	16.5		ug/L		55	47 - 123
Hexachlorobenzene	30.0	20.0		ug/L		67	52 - 131
Hexachlorocyclopentadiene	30.0	ND	*	ug/L		8	10 - 129
Hexachloroethane	30.0	12.2		ug/L		41	41 - 120
Indene	30.0	15.6		ug/L		52	47 - 120
Isophorone	30.0	16.4		ug/L		55	49 - 120
2-Methylphenol	30.0	16.2		ug/L		54	39 - 123
3 & 4 Methylphenol	30.0	14.3	J	ug/L		48	38 - 121
2-Nitroaniline	30.0	19.7		ug/L		66	47 - 150
3-Nitroaniline	30.0	20.2		ug/L		67	34 - 132
4-Nitroaniline	30.0	28.0		ug/L		93	41 - 135
Nitrobenzene	30.0	15.6		ug/L		52	47 - 120
2-Nitrophenol	30.0	12.6		ug/L		42	28 - 136
4-Nitrophenol	60.0	31.3		ug/L		52	10 - 150
N-Nitrosodimethylamine	30.0	14.7		ug/L		49	22 - 148
N-Nitrosodi-n-propylamine	30.0	15.3		ug/L		51	44 - 120
N-Nitrosodiphenylamine	29.8	17.6		ug/L		59	56 - 120
Pentachlorophenol	60.0	27.0		ug/L		45	15 - 141
Phenol	30.0	11.6		ug/L		39	33 - 120
Pyridine	30.0	11.2		ug/L		37	26 - 120
Quinoline	30.0	19.9		ug/L		66	51 - 129

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	17.7		ug/L		59	38 - 147
2,4,6-Trichlorophenol	30.0	16.1		ug/L		54	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*59*		*34 - 120*
2-Fluorophenol	*19*		*10 - 120*
Nitrobenzene-d5	*54*		*27 - 120*
Phenol-d5	*41*		*10 - 120*
Terphenyl-d14	*75*		*53 - 125*
2,4,6-Tribromophenol	*78*		*15 - 135*

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.0		ug/L		67	29 - 120	28	30
Benzoic acid	125	37.8	*	ug/L		30	10 - 150	90	30
Benzyl alcohol	30.0	19.0	*	ug/L		63	19 - 125	32	30
Bis(2-chloroethoxy)methane	30.0	20.2		ug/L		67	45 - 120	27	30
Bis(2-chloroethyl)ether	30.0	19.0	*	ug/L		63	48 - 120	31	30
bis (2-chloroisopropyl) ether	30.0	18.3		ug/L		61	30 - 125	28	30
Bis(2-ethylhexyl) phthalate	30.0	26.6		ug/L		89	48 - 150	12	30
4-Bromophenyl phenyl ether	30.0	22.1		ug/L		74	55 - 122	24	30
Butyl benzyl phthalate	30.0	26.2		ug/L		87	46 - 145	17	30
4-Chloroaniline	30.0	22.5		ug/L		75	30 - 120	27	30
4-Chloro-3-methylphenol	30.0	22.2		ug/L		74	39 - 140	24	30
2-Chloronaphthalene	30.0	21.7		ug/L		72	52 - 120	21	30
2-Chlorophenol	30.0	14.1	*	ug/L		47	34 - 120	32	30
4-Chlorophenyl phenyl ether	30.0	22.9		ug/L		76	58 - 124	24	30
Dibenz[a,h]acridine	30.0	26.4	*	ug/L		88	46 - 149	36	30
Dibenzofuran	30.0	22.7		ug/L		76	58 - 123	22	30
3,3'-Dichlorobenzidine	40.0	36.6		ug/L		91	39 - 135	24	30
2,4-Dichlorophenol	30.0	19.1		ug/L		64	39 - 128	25	30
Diethyl phthalate	30.0	22.6		ug/L		75	44 - 146	20	30
2,4-Dimethylphenol	30.0	21.1		ug/L		70	44 - 120	25	30
Dimethyl phthalate	30.0	22.7		ug/L		76	50 - 131	22	30
Di-n-butyl phthalate	30.0	25.1		ug/L		84	55 - 131	16	30
4,6-Dinitro-ortho-cresol	60.0	53.5	*	ug/L		89	10 - 150	36	30
2,4-Dinitrophenol	60.0	53.7	*	ug/L		89	10 - 150	41	30
2,4-Dinitrotoluene	30.0	24.8		ug/L		83	58 - 140	19	30
2,6-Dinitrotoluene	30.0	22.2		ug/L		74	57 - 130	21	30
Di-n-octyl phthalate	30.0	25.3		ug/L		84	50 - 150	21	30
1,4-Dioxane	30.0	14.4	*	ug/L		48	25 - 120	35	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.6		ug/L		72	47 - 123	27	30
Hexachlorobenzene	30.0	24.9		ug/L		83	52 - 131	22	30
Hexachlorocyclopentadiene	30.0	3.86	J *	ug/L		13	10 - 129	46	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane	30.0	15.2		ug/L		51	41 - 120	22	30
Indene	30.0	22.3	*	ug/L		74	47 - 120	35	30
Isophorone	30.0	21.3		ug/L		71	49 - 120	26	30
2-Methylphenol	30.0	21.0		ug/L		70	39 - 123	26	30
3 & 4 Methylphenol	30.0	18.4	J	ug/L		61	38 - 121	25	30
2-Nitroaniline	30.0	23.2		ug/L		77	47 - 150	16	30
3-Nitroaniline	30.0	23.7		ug/L		79	34 - 132	16	30
4-Nitroaniline	30.0	32.0		ug/L		107	41 - 135	13	30
Nitrobenzene	30.0	20.4		ug/L		68	47 - 120	27	30
2-Nitrophenol	30.0	16.7		ug/L		56	28 - 136	28	30
4-Nitrophenol	60.0	34.8		ug/L		58	10 - 150	11	30
N-Nitrosodimethylamine	30.0	19.9		ug/L		66	22 - 148	30	30
N-Nitrosodi-n-propylamine	30.0	20.5		ug/L		68	44 - 120	29	30
N-Nitrosodiphenylamine	29.8	22.7		ug/L		76	56 - 120	26	30
Pentachlorophenol	60.0	36.2		ug/L		60	15 - 141	29	30
Phenol	30.0	15.5		ug/L		52	33 - 120	29	30
Pyridine	30.0	16.0	*	ug/L		53	26 - 120	36	30
Quinoline	30.0	25.3		ug/L		84	51 - 129	24	30
2,4,5-Trichlorophenol	30.0	22.5		ug/L		75	38 - 147	23	30
2,4,6-Trichlorophenol	30.0	20.5		ug/L		68	36 - 139	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 120*
2-Fluorophenol	*25*		*10 - 120*
Nitrobenzene-d5	*66*		*27 - 120*
Phenol-d5	*51*		*10 - 120*
Terphenyl-d14	*83*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Anthracene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[g,h,i]perylene	0.0581	J	0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Chrysene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/12/17 10:22	07/13/17 16:29	1
Fluoranthene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Fluorene	ND		0.20	0.021	ug/L		07/12/17 10:22	07/13/17 16:29	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-360171/1-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360171

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		07/12/17 10:22	07/13/17 16:29	1
Phenanthrene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
Pyrene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/12/17 10:22	07/13/17 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*15 - 122*	*07/12/17 10:22*	*07/13/17 16:29*	*1*
Nitrobenzene-d5	*82*		*19 - 130*	*07/12/17 10:22*	*07/13/17 16:29*	*1*

Lab Sample ID: LCS 400-360171/2-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	17.8		ug/L		59	41 - 120
Acenaphthylene	30.0	17.5		ug/L		58	44 - 120
Anthracene	30.0	20.4		ug/L		68	49 - 120
Benzo[a]anthracene	30.0	22.3		ug/L		74	61 - 135
Benzo[a]pyrene	30.0	19.1		ug/L		64	52 - 120
Benzo[b]fluoranthene	30.0	23.3		ug/L		78	53 - 134
Benzo[g,h,i]perylene	30.0	22.2		ug/L		74	47 - 133
Benzo[k]fluoranthene	30.0	21.4		ug/L		71	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	23.6		ug/L		79	48 - 146
Fluoranthene	30.0	22.8		ug/L		76	54 - 128
Fluorene	30.0	19.2		ug/L		64	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.1		ug/L		77	43 - 142
Phenanthrene	30.0	21.3		ug/L		71	48 - 120
Pyrene	30.0	18.8		ug/L		63	48 - 132
1-Methylnaphthalene	30.0	17.1		ug/L		57	41 - 120
2-Methylnaphthalene	30.0	18.4		ug/L		61	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*72*		*33 - 138*
2-Fluorobiphenyl	*66*		*15 - 122*
Nitrobenzene-d5	*48*		*19 - 130*

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	22.3		ug/L		74	41 - 120	23	56
Acenaphthylene	30.0	22.3		ug/L		74	44 - 120	24	56
Anthracene	30.0	25.9		ug/L		86	49 - 120	24	51
Benzo[a]anthracene	30.0	27.2		ug/L		91	61 - 135	20	49
Benzo[a]pyrene	30.0	23.1		ug/L		77	52 - 120	19	50

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-360171/3-A
Matrix: Water
Analysis Batch: 360412

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene	30.0	27.8		ug/L		93	53 - 134	18	54
Benzo[g,h,i]perylene	30.0	25.1		ug/L		84	47 - 133	12	50
Benzo[k]fluoranthene	30.0	26.5		ug/L		88	57 - 134	21	52
Chrysene	30.0	28.8		ug/L		96	55 - 122	20	50
Dibenz(a,h)anthracene	30.0	27.6		ug/L		92	48 - 146	16	50
Fluoranthene	30.0	28.1		ug/L		94	54 - 128	21	52
Fluorene	30.0	24.8		ug/L		83	45 - 125	25	56
Indeno[1,2,3-cd]pyrene	30.0	27.1		ug/L		90	43 - 142	16	51
Phenanthrene	30.0	26.7		ug/L		89	48 - 120	22	56
Pyrene	30.0	23.3		ug/L		78	48 - 132	21	52
1-Methylnaphthalene	30.0	22.2		ug/L		74	41 - 120	26	55
2-Methylnaphthalene	30.0	23.2		ug/L		77	32 - 124	23	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*82*		*33 - 138*
2-Fluorobiphenyl	*79*		*15 - 122*
Nitrobenzene-d5	*60*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-360659/1-A
Matrix: Water
Analysis Batch: 361571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360659

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		07/17/17 08:31	07/25/17 14:02	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/17/17 08:31	07/25/17 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*152*	*X*	*51 - 149*	*07/17/17 08:31*	*07/25/17 14:02*	*1*

Lab Sample ID: LCS 400-360659/2-A
Matrix: Water
Analysis Batch: 360891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0856		ug/L		86	60 - 140
1,2-Dibromoethane	0.100	0.0844		ug/L		84	60 - 140

Lab Sample ID: LCSD 400-360659/3-A
Matrix: Water
Analysis Batch: 360891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360659

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0784		ug/L		78	60 - 140	19	30
1,2-Dibromoethane	0.100	0.0916		ug/L		92	60 - 140	8	30

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-360659/3-A
Matrix: Water
Analysis Batch: 360891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360659

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	64		51 - 149

LAB (LOCATION)

Shell Oil Products US Chain Of Custody Record

AECOM

☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr, Pensacola, FL 32514 (850-474-1001))
☐ Other (Lab Vendor # 1364580 (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
Bob Billman	25278
PO #	GSAP Project ID
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 07/10/17
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 60527968 - 1.03.003 / 1.03.0033
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO:
E-MAIL:
AECOM Offset ID:
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): J. Roberts, J. Clark, J. Peters, M. Karrick
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; melissa.reminger@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: ☑ LLEVEL 2 ☐ LEVE ☑ 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 DISA

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES:
	MW23-ROX-071017	7/10/17	0935	Water	4			2		6	X	X	X	X	Cooler #3
	TB-ROX-BP-071017-8260	7/10/17	0000	Water	2					2			X		Cooler #2
	TB-ROX-BP-071017-8011	7/10/17	0000	Water	2					2	X				Cooler #2

400-140347 COC

TEMPERATURE ON RECEIPT: 4.1°C 2.5°C 4.0°C IR2

Container PID Readings or Laboratory Notes

Relinquished by (Signature)	Received by (Signature)	Date	Time
Jillian Roberts	FedEx	07/10/17	1730
Relinquished by (Signature)	Received by (Signature)	Date	Time
		7/11/17	842
Relinquished by (Signature)	Received by (Signature)	Date	Time

Version 14Dec15

ALL VOAs in cooler #2.

Page 36 of 38

7/31/2017

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140347-1

Login Number: 140347
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	4.1°C 4.2°C,2.5°C IR2
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	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140347-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140392-1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/24/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
MW6D-ROX-071117	MW6D-ROX-071117-Dup
MW6C-ROX-071117	MW6B-ROX-071117
MW6A-ROX-071117	ROST3MW-ROX-071117
MW1-ROX-071117	MW10-ROX-071117
TB-ROX-071117-8260-A	TB-ROX-071117-8011-A
MW7-ROX-071117	MW7-ROX-071117-Dup
P114R-ROX-071117	P93D-ROX-071117
P93B-ROX-071117	P93B-ROX-071117-Dup
TB-ROX-071117-8260	TB-ROX-071117-8011

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 bis(2-ethylhexyl) phthalate was detected in the method blank. Several SVOC LCS/LCSD recoveries and the LCS/LCSD RPDs were outside evaluation criteria. Several surrogate recoveries were outside criteria in several samples. The VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample P114R-ROX-071117. VOCs and phenol in field duplicate pairs MW7-ROX-071117/MW7-ROX-071117-Dup and P93B-ROX-071117/P93B-ROX-071117 were diluted due to high levels of target analytes. The continuing calibration verification for 4-nitrophenol, hexachlorocyclopentadiene, and butyl benzyl phthalate was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for hexachlorocyclopentadiene, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification.

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 not requested; no qualification of data was required. Although not indicated in the sample receipt form, the date portion of sample IDs P93D-ROX-071117, TB-ROX-071117-8260/8011 and field duplicate pair P93B-ROX-071117/P93B-ROX-071117-Dup were reported incorrectly by the laboratory;

sample IDs were correctly reported by AECOM. 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
MB 400-360266/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	7.14 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
MW6D-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
MW6C-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
MW6B-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	10 µg/L	**U**
MW6A-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
ROST3MW-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
MW7-ROX-071117-Dup	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
P114R-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
P93D-ROX-071117	SVOCs	Bis(2-ethylhexyl) phthalate	-	**U**
P93B-ROX-071117-Dup	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 400-360266/2-A/3-A	SVOCs	Aniline	65/33	**67**	29-120/30
LCS/LCSD 400-360266/2-A/3-A	SVOCs	Benzoic acid	95/65	**37**	10-150/30
LCS/LCSD 400-360266/2-A/3-A	SVOCs	4,6-Dinitro-ortho-cresol	20/101	**134**	10-150/30
LCS/LCSD 400-360266/2-A/3-A	SVOCs	Pyridine	53/**22**	**82**	26-120/30
LCS/LCSD 400-360266/2-A/3-A	SVOCs	Quinoline	86/**49**	**55**	51-129/30

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Analytical data associated with RPD alone outside evaluation criteria did not require qualification.

Sample ID	Parameter	Analyte	Qualification
MW6D-ROX-071117	SVOCs	Pyridine	UJ
MW6D-ROX-071117	SVOCs	Quinoline	UJ
MW6D-ROX-071117-Dup	SVOCs	Pyridine	UJ
MW6D-ROX-071117-Dup	SVOCs	Quinoline	UJ
MW6C-ROX-071117	SVOCs	Pyridine	UJ
MW6C-ROX-071117	SVOCs	Quinoline	UJ
MW6B-ROX-071117	SVOCs	Pyridine	UJ
MW6B-ROX-071117	SVOCs	Quinoline	UJ
MW6A-ROX-071117	SVOCs	Pyridine	UJ
MW6A-ROX-071117	SVOCs	Quinoline	UJ
ROST3MW-ROX-071117	SVOCs	Pyridine	UJ
ROST3MW-ROX-071117	SVOCs	Quinoline	UJ
MW1-ROX-071117	SVOCs	Pyridine	UJ
MW1-ROX-071117	SVOCs	Quinoline	UJ
MW10-ROX-071117	SVOCs	Pyridine	UJ
MW10-ROX-071117	SVOCs	Quinoline	UJ
MW7-ROX-071117	SVOCs	Pyridine	UJ
MW7-ROX-071117	SVOCs	Quinoline	UJ
MW7-ROX-071117-Dup	SVOCs	Pyridine	UJ
MW7-ROX-071117-Dup	SVOCs	Quinoline	UJ
P114R-ROX-071117	SVOCs	Pyridine	UJ
P114R-ROX-071117	SVOCs	Quinoline	UJ
P93D-ROX-071117	SVOCs	Pyridine	UJ
P93D-ROX-071117	SVOCs	Quinoline	UJ
P93B-ROX-071117	SVOCs	Pyridine	UJ
P93B-ROX-071117	SVOCs	Quinoline	UJ
P93B-ROX-071117-Dup	SVOCs	Pyridine	UJ
P93B-ROX-071117-Dup	SVOCs	Quinoline	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW6D-ROX-071117-Dup	PAHs	Terphenyl-d_{14}	**24**	33-138
MW6D-ROX-071117-Dup	SVOCs	Terphenyl-d_{14}	**22**	53-125
MW6B-ROX-071117	VOCs by 8011	4-Bromofluorobenzene	**157**	51-149
MW7-ROX-071117	SVOCs	Terphenyl-d_{14}	**37**	53-125
MW7-ROX-071117-Dup	SVOCs	Terphenyl-d_{14}	**39**	53-125
P114R-ROX-071117	PAHs	Terphenyl-d_{14}	**31**	33-138
P114R-ROX-071117	SVOCs	Terphenyl-d_{14}	**38**	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 the associated PAH or SVOC samples. 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?

Yes, although not requested, sample P114R-ROX-071117 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-071117	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

Analytical data that required qualification based on MS/MSD data are included in the table below.

Sample ID	Parameter	Analyte	Qualification
P114R-ROX-071117	VOCs	2-Chloroethyl vinyl ether	**UJ**

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-071117	MW6D-ROX-071117-Dup
MW7-ROX-071117	MW7-ROX-071117-Dup
P93B-ROX-071117	P93B-ROX-071117-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

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

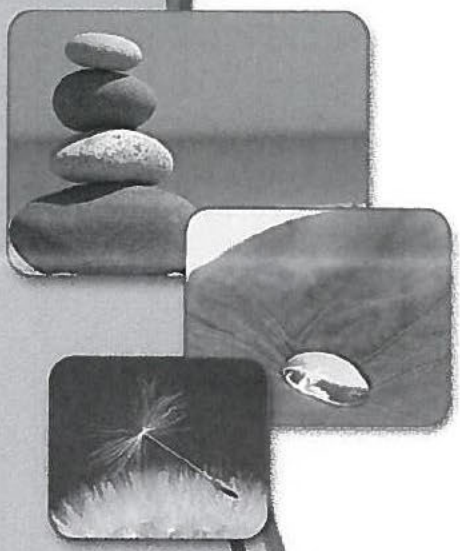
Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for 4-nitrophenol, hexachlorocyclopentadiene, and butyl benzyl phthalate was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
ROST3MW-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
ROST3MW-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
MW1-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
MW1-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
MW10-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
MW10-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
MW7-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
MW7-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
MW7-ROX-071117-Dup	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
MW7-ROX-071117-Dup	SVOCs	4-Nitrophenol	-	**UJ**
P114R-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
P114R-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
P93D-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
P93D-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
P93B-ROX-071117	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
P93B-ROX-071117	SVOCs	4-Nitrophenol	-	**UJ**
P93B-ROX-071117-Dup	SVOCs	Hexachlorocyclopentadiene	-	**UJ**
P93B-ROX-071117-Dup	SVOCs	4-Nitrophenol	-	**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: 400-140392-1
Client Project/Site: ROXANA QUARTERLY

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:
7/26/2017 4:52:15 PM

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LINKS

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Reviewed 8/24/17 MR

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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Detection Summary 6
Client Sample Results 9
Definitions 71
Surrogate Summary 72
Method Summary 75
Chronicle 76
QC Association 84
QC Sample Results 88
Chain of Custody 108
Receipt Checklists 110
Certification Summary 111

Job ID: 400-140392-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140392-1

Receipt
The samples were received on 7/12/2017 11:42 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.6°C, 2.2°C, 2.8°C and 2.8°C.

GC/MS VOA
Method 8260B:
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-360800 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 400-360800 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: MW6D-ROX-071117 (400-140392-1), MW6D-ROX-071117-DUP (400-140392-2), MW6C-ROX-071117 (400-140392-3), 071117 (400-140392-4), MW6A-ROX-071117 (400-140392-5), ROST3MW-ROX-071117 (400-140392-6), MW1-ROX-071117 (400-140392-7), MW10-ROX-071117 (400-140392-8), TB-ROX-071117-8260-A (400-140392-9), MW7 ROX-071117 (400-140392-11), MW7 ROX-071117-DUP (400-140392-12), P114R-ROX-071117 (400-140392-13), P93D-ROX-07117 (400-140392-14) P93B-ROX-07117 (400-140392-15), P93B-ROX-07117-DUP (400-140392-16) and TB-ROX-07117-8260 (400-140392-17). 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 400-361425 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 400-361425 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D:
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-071117 (400-140392-11), MW7 ROX-071117-DUP (400-140392-12) and P114R-ROX-071117 (400-140392-13). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-361035 recovered outside acceptance criteria, low biased, for 4-Nitrophenol and Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the targets analyte were detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The method blank for preparation batch 400-360266 and analytical batch 400-361032 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.

The following analytes recovered outside control limits for the LCSD associated with preparation batch 400-360266 and analytical batch 400-361032: Pyridine and Quinoline. 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 sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-360266 and analytical batch 400-361032 recovered outside control limits for the following analytes: Aniline, 4,6-Dinitro-ortho-cresol and Benzoic acid.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-360266

Job ID: 400-140392-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

and analytical batch 400-361032 recovered outside control limits for the following analytes: Benzenethiol.

The continuing calibration verification (CCV) associated with batch 400-361032 recovered outside acceptance criteria, low biased, for Butyl benzyl phthalate. 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 400-361032 recovered above the upper control limit for Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (MB 400-360266/1-A).

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-071117-DUP (400-140392-2). These results have been reported and qualified.

The following samples were diluted to bring the concentration of target analytes within the calibration range: MW7 ROX-071117 (400-140392-11), MW7 ROX-071117-DUP (400-140392-12), P93B-ROX-07117 (400-140392-15) and P93B-ROX-07117-DUP (400-140392-16). Elevated reporting limits (RLs) are provided.

Method 8270D LL:
Surrogate recovery for the following sample was outside control limits: P114R-ROX-071117 (400-140392-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 sample contained an allowable number of surrogate compounds outside limits: MW6D-ROX-071117-DUP (400-140392-2). These results have been reported and qualified.

GC Semi VOA
Method 8011:
Surrogate recovery for the following sample was outside the upper control limit: MW6B-ROX-071117 (400-140392-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 400-361274 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane and 1,2-Dibromoethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW6D-ROX-071117 (400-140392-1), MW6D-ROX-071117-DUP (400-140392-2), MW6C-ROX-071117 (400-140392-3), MW6B-ROX-071117 (400-140392-4), MW6A-ROX-071117 (400-140392-5), ROST3MW-ROX-071117 (400-140392-6), MW1-ROX-071117 (400-140392-7), MW10-ROX-071117 (400-140392-8), TB-ROX-071117-8011-A (400-140392-10), MW7 ROX-071117 (400-140392-11), MW7 ROX-071117-DUP (400-140392-12), P114R-ROX-071117 (400-140392-13), P93D-ROX-07117 (400-140392-14), P93B-ROX-07117 (400-140392-15), P93B-ROX-07117-DUP (400-140392-16) and TB-ROX-07117-8011 (400-140392-18).

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-360266 and 400-360266.

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

TestAmerica Job ID: 400-140392-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140392-1	MW6D-ROX-071117	Water	07/11/17 08:50	07/12/17 11:42
400-140392-2	MW6D-ROX-071117-DUP	Water	07/11/17 08:50	07/12/17 11:42
400-140392-3	MW6C-ROX-071117	Water	07/11/17 09:45	07/12/17 11:42
400-140392-4	MW6B-ROX-071117	Water	07/11/17 10:30	07/12/17 11:42
400-140392-5	MW6A-ROX-071117	Water	07/11/17 11:15	07/12/17 11:42
400-140392-6	ROST3MW-ROX-071117	Water	07/11/17 13:20	07/12/17 11:42
400-140392-7	MW1-ROX-071117	Water	07/11/17 14:10	07/12/17 11:42
400-140392-8	MW10-ROX-071117	Water	07/11/17 15:00	07/12/17 11:42
400-140392-9	TB-ROX-071117-8260-A	Water	07/11/17 00:00	07/12/17 11:42
400-140392-10	TB-ROX-071117-8011-A	Water	07/11/17 00:00	07/12/17 11:42
400-140392-11	MW7 ROX-071117	Water	07/11/17 08:50	07/12/17 11:42
400-140392-12	MW7 ROX-071117-DUP	Water	07/11/17 08:50	07/12/17 11:42
400-140392-13	P114R-ROX-071117	Water	07/11/17 11:35	07/12/17 11:42
400-140392-14	P93D-ROX-07117	Water	07/11/17 13:40	07/12/17 11:42
400-140392-15	P93B-ROX-07117	Water	07/11/17 14:30	07/12/17 11:42
400-140392-16	P93B-ROX-07117-DUP	Water	07/11/17 14:30	07/12/17 11:42
400-140392-17	TB-ROX-07117-8260	Water	07/11/17 00:00	07/12/17 11:42
400-140392-18	TB-ROX-07117-8011	Water	07/11/17 00:00	07/12/17 11:42

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6D-ROX-071117 — Lab Sample ID: 400-140392-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.16	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.051	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.030	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	~~2.2~~	J B U	9.9	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW6D-ROX-071117-DUP — Lab Sample ID: 400-140392-2

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	0.066	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW6C-ROX-071117 — Lab Sample ID: 400-140392-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.034	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.056	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~2.8~~	J B U	9.6	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW6B-ROX-071117 — Lab Sample ID: 400-140392-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.037	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.071	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~10~~	B U	~~9.9~~ 10	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW6A-ROX-071117 — Lab Sample ID: 400-140392-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.1		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.023	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
Bis(2-ethylhexyl) phthalate	~~3.4~~	J B U	10	2.3	ug/L	1		8270D	Total/NA

Client Sample ID: ROST3MW-ROX-071117 — Lab Sample ID: 400-140392-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.48	J	1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	25		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.3		1.0	0.53	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	7.9	J	25	1.8	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	22		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	5.9		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	3.5		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	4.2	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	1.2		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	18		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	2.1		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	26		10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.16	J	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

TestAmerica Job ID: 400-140392-1

Client Sample ID: ROST3MW-ROX-071117 (Continued)

Lab Sample ID: 400-140392-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.085	J	0.20	0.021	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.18	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Pyrene	0.030	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	1.4		0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~2.4~~	J B U	10	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: MW1-ROX-071117

Lab Sample ID: 400-140392-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.041	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.063	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: MW10-ROX-071117

Lab Sample ID: 400-140392-8

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	0.021	J	0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: TB-ROX-071117-8260-A

Lab Sample ID: 400-140392-9

No Detections.

Client Sample ID: TB-ROX-071117-8011-A

Lab Sample ID: 400-140392-10

No Detections.

Client Sample ID: MW7 ROX-071117

Lab Sample ID: 400-140392-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	810000		5000	1900	ug/L	5000		8260B	Total/NA
Phenanthrene	0.13	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	1.9		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	3.0		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylphenol	3.5	J	9.7	1.7	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	4.2	J	19	1.0	ug/L	1		8270D	Total/NA
Phenol - DL	270		97	25	ug/L	10		8270D	Total/NA

Client Sample ID: MW7 ROX-071117-DUP

Lab Sample ID: 400-140392-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	870000		5000	1900	ug/L	5000		8260B	Total/NA
1-Methylnaphthalene	1.6		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	2.5		0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~7.7~~	J B U	9.7	2.2	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	3.8	J	9.7	3.4	ug/L	1		8270D	Total/NA
2-Methylphenol	3.4	J	9.7	1.8	ug/L	1		8270D	Total/NA
3 & 4 Methylphenol	4.7	J	19	1.0	ug/L	1		8270D	Total/NA
Phenol - DL	240		97	25	ug/L	10		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P114R-ROX-071117 — Lab Sample ID: 400-140392-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.47	J	1.0	0.38	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.82	J	1.0	0.74	ug/L	1		8260B	Total/NA
Phenanthrene	0.15	J	0.19	0.019	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	0.14	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	~~3.4~~	J B U	9.6	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: P93D-ROX-07117 — Lab Sample ID: 400-140392-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		1.0	0.38	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	4.1		1.0	0.74	ug/L	1		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	~~6.7~~	J B U	9.6	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: P93B-ROX-07117 — Lab Sample ID: 400-140392-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180000		1000	380	ug/L	1000		8260B	Total/NA
Phenol - DL	160		95	25	ug/L	10		8270D	Total/NA

Client Sample ID: P93B-ROX-07117-DUP — Lab Sample ID: 400-140392-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180000		1000	380	ug/L	1000		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	~~5.2~~	J B U	9.6	2.2	ug/L	1		8270D	Total/NA
Phenol - DL	220		96	25	ug/L	10		8270D	Total/NA

Client Sample ID: TB-ROX-07117-8260 — Lab Sample ID: 400-140392-17

No Detections.

Client Sample ID: TB-ROX-07117-8011 — Lab Sample ID: 400-140392-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6D-ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-1
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			07/18/17 16:21	1
Acrolein	ND		20	10	ug/L			07/18/17 16:21	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 16:21	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 16:21	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 16:21	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 16:21	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 16:21	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 16:21	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 16:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 16:21	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 16:21	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 16:21	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 16:21	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 16:21	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 16:21	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 16:21	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 16:21	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 16:21	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 16:21	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 16:21	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 16:21	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 16:21	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 16:21	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 16:21	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 16:21	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 16:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 16:21	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 16:21	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 16:21	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 16:21	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 16:21	1

Client Sample ID: MW6D-ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-1
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			07/18/17 16:21	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 16:21	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 16:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 16:21	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 16:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 16:21	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:21	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 16:21	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 16:21	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 16:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 16:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 16:21	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 16:21	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 16:21	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/18/17 16:21*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 16:21*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/18/17 16:21*	*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		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Benzo[g,h,i]perylene	**0.16**	**J**	0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 18:12	1
Indeno[1,2,3-cd]pyrene	**0.051**	**J**	0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:12	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
1-Methylnaphthalene	**0.030**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1
2-Methylnaphthalene	**0.034**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*33 - 138*	*07/13/17 06:59*	*07/14/17 18:12*	*1*
2-Fluorobiphenyl	*75*		*15 - 122*	*07/13/17 06:59*	*07/14/17 18:12*	*1*

Client Sample ID: MW6D-ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*57*		*19 - 130*	*07/13/17 06:59*	*07/14/17 18:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.9	3.8	ug/L		07/13/17 06:59	07/20/17 15:52	1
Benzenethiol	ND		9.9	1.7	ug/L		07/13/17 06:59	07/20/17 15:52	1
Benzoic acid	ND	*	30	7.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 15:52	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/13/17 06:59	07/20/17 15:52	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/13/17 06:59	07/20/17 15:52	1
Bis(2-ethylhexyl) phthalate	~~2.2~~	J B	9.9	2.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/13/17 06:59	07/20/17 15:52	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/13/17 06:59	07/20/17 15:52	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 15:52	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 15:52	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 15:52	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/13/17 06:59	07/20/17 15:52	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/13/17 06:59	07/20/17 15:52	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 15:52	1
Di-n-octyl phthalate	ND		9.9	0.44	ug/L		07/13/17 06:59	07/20/17 15:52	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 15:52	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 15:52	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/13/17 06:59	07/20/17 15:52	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/13/17 06:59	07/20/17 15:52	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
Indene	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 15:52	1
Isophorone	ND		9.9	0.56	ug/L		07/13/17 06:59	07/20/17 15:52	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 15:52	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/20/17 15:52	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/13/17 06:59	07/20/17 15:52	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/13/17 06:59	07/20/17 15:52	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/13/17 06:59	07/20/17 15:52	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/13/17 06:59	07/20/17 15:52	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 15:52	1

Client Sample ID: MW6D-ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-1
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		9.9	3.3	ug/L		07/13/17 06:59	07/20/17 15:52	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/13/17 06:59	07/20/17 15:52	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/20/17 15:52	1
Phenol	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 15:52	1
Pyridine	ND	* UJ	9.9	3.2	ug/L		07/13/17 06:59	07/20/17 15:52	1
Quinoline	ND	* UJ	9.9	5.9	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/13/17 06:59	07/20/17 15:52	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 120*	*07/13/17 06:59*	*07/20/17 15:52*	*1*
2-Fluorophenol	*51*		*10 - 120*	*07/13/17 06:59*	*07/20/17 15:52*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*07/13/17 06:59*	*07/20/17 15:52*	*1*
Phenol-d5	*57*		*10 - 120*	*07/13/17 06:59*	*07/20/17 15:52*	*1*
Terphenyl-d14	*56*		*53 - 125*	*07/13/17 06:59*	*07/20/17 15:52*	*1*
2,4,6-Tribromophenol	*76*		*15 - 135*	*07/13/17 06:59*	*07/20/17 15:52*	*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		0.033	0.0060	ug/L		07/18/17 09:09	07/21/17 14:46	1
1,2-Dibromoethane	ND		0.022	0.0054	ug/L		07/18/17 09:09	07/21/17 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*60*		*51 - 149*	*07/18/17 09:09*	*07/20/17 02:57*	*1*

Client Sample ID: MW6D-ROX-071117-DUP

Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-2

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			07/18/17 16:49	1
Acrolein	ND		20	10	ug/L			07/18/17 16:49	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 16:49	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 16:49	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 16:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 16:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 16:49	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 16:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 16:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 16:49	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 16:49	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 16:49	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 16:49	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 16:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 16:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 16:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 16:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 16:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 16:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 16:49	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 16:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 16:49	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 16:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 16:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 16:49	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 16:49	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 16:49	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 16:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 16:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 16:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 16:49	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 16:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 16:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 16:49	1

Client Sample ID: MW6D-ROX-071117-DUP
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-2
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			07/18/17 16:49	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 16:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 16:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 16:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 16:49	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 16:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 16:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 16:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 16:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 16:49	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 16:49	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 16:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 16:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 16:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 16:49	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 16:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 16:49	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/18/17 16:49*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*07/18/17 16:49*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 16:49*	*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		07/13/17 06:59	07/14/17 18:35	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 18:35	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 18:35	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
1-Methylnaphthalene	**0.038**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1
2-Methylnaphthalene	**0.066**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*24*	*X*	*33 - 138*	*07/13/17 06:59*	*07/14/17 18:35*	*1*
2-Fluorobiphenyl	*68*		*15 - 122*	*07/13/17 06:59*	*07/14/17 18:35*	*1*

Client Sample ID: MW6D-ROX-071117-DUP

Lab Sample ID: 400-140392-2

Date Collected: 07/11/17 08:50

Matrix: Water

Date Received: 07/12/17 11:42

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*51*		*19 - 130*	*07/13/17 06:59*	*07/14/17 18:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.9	3.8	ug/L		07/13/17 06:59	07/20/17 16:23	1
Benzenethiol	ND		9.9	1.7	ug/L		07/13/17 06:59	07/20/17 16:23	1
Benzoic acid	ND	*	30	7.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 16:23	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/13/17 06:59	07/20/17 16:23	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/13/17 06:59	07/20/17 16:23	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/13/17 06:59	07/20/17 16:23	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/13/17 06:59	07/20/17 16:23	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 16:23	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 16:23	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 16:23	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/13/17 06:59	07/20/17 16:23	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/13/17 06:59	07/20/17 16:23	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 16:23	1
Di-n-octyl phthalate	ND		9.9	0.44	ug/L		07/13/17 06:59	07/20/17 16:23	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 16:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 16:23	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/13/17 06:59	07/20/17 16:23	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/13/17 06:59	07/20/17 16:23	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
Indene	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 16:23	1
Isophorone	ND		9.9	0.56	ug/L		07/13/17 06:59	07/20/17 16:23	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 16:23	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/20/17 16:23	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/13/17 06:59	07/20/17 16:23	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/13/17 06:59	07/20/17 16:23	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/13/17 06:59	07/20/17 16:23	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/13/17 06:59	07/20/17 16:23	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 16:23	1

Client Sample ID: MW6D-ROX-071117-DUP
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-2
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		9.9	3.3	ug/L		07/13/17 06:59	07/20/17 16:23	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/13/17 06:59	07/20/17 16:23	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/20/17 16:23	1
Phenol	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 16:23	1
Pyridine	ND	* UJ	9.9	3.2	ug/L		07/13/17 06:59	07/20/17 16:23	1
Quinoline	ND	* UJ	9.9	5.9	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/13/17 06:59	07/20/17 16:23	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*34 - 120*	*07/13/17 06:59*	*07/20/17 16:23*	*1*
2-Fluorophenol	*36*		*10 - 120*	*07/13/17 06:59*	*07/20/17 16:23*	*1*
Nitrobenzene-d5	*53*		*27 - 120*	*07/13/17 06:59*	*07/20/17 16:23*	*1*
Phenol-d5	*31*		*10 - 120*	*07/13/17 06:59*	*07/20/17 16:23*	*1*
Terphenyl-d14	*22*	*X*	*53 - 125*	*07/13/17 06:59*	*07/20/17 16:23*	*1*
2,4,6-Tribromophenol	*47*		*15 - 135*	*07/13/17 06:59*	*07/20/17 16:23*	*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		07/18/17 09:09	07/21/17 15:04	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*149*		*51 - 149*	*07/18/17 09:09*	*07/21/17 15:04*	*1*

Client Sample ID: MW6C-ROX-071117
Date Collected: 07/11/17 09:45
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-3
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			07/18/17 17:16	1
Acrolein	ND		20	10	ug/L			07/18/17 17:16	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 17:16	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 17:16	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 17:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 17:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 17:16	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 17:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 17:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 17:16	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 17:16	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 17:16	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 17:16	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 17:16	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 17:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 17:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 17:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 17:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 17:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 17:16	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 17:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 17:16	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 17:16	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 17:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 17:16	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 17:16	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 17:16	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 17:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 17:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 17:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 17:16	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 17:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 17:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 17:16	1

Client Sample ID: MW6C-ROX-071117
Date Collected: 07/11/17 09:45
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-3
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			07/18/17 17:16	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 17:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 17:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 17:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 17:16	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 17:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 17:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 17:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 17:16	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:16	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 17:16	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 17:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 17:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 17:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 17:16	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 17:16	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 17:16	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/18/17 17:16*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 17:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 17:16*	*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		07/13/17 06:59	07/14/17 18:58	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Chrysene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 18:58	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 18:58	1
Phenanthrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
1-Methylnaphthalene	**0.034**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1
2-Methylnaphthalene	**0.056**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*33 - 138*	*07/13/17 06:59*	*07/14/17 18:58*	*1*
2-Fluorobiphenyl	*72*		*15 - 122*	*07/13/17 06:59*	*07/14/17 18:58*	*1*

Client Sample ID: MW6C-ROX-071117
Date Collected: 07/11/17 09:45
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*59*		*19 - 130*	*07/13/17 06:59*	*07/14/17 18:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.6	3.6	ug/L		07/13/17 06:59	07/20/17 16:53	1
Benzenethiol	ND		9.6	1.6	ug/L		07/13/17 06:59	07/20/17 16:53	1
Benzoic acid	ND	*	29	7.0	ug/L		07/13/17 06:59	07/20/17 16:53	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/13/17 06:59	07/20/17 16:53	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/13/17 06:59	07/20/17 16:53	1
Bis(2-chloroethyl)ether	ND		9.6	0.71	ug/L		07/13/17 06:59	07/20/17 16:53	1
bis (2-chloroisopropyl) ether	ND		9.6	0.77	ug/L		07/13/17 06:59	07/20/17 16:53	1
Bis(2-ethylhexyl) phthalate	2.9	J B	9.6	2.2	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/13/17 06:59	07/20/17 16:53	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Chloroaniline	ND		9.6	3.3	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/13/17 06:59	07/20/17 16:53	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/13/17 06:59	07/20/17 16:53	1
2-Chlorophenol	ND		9.6	2.1	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/13/17 06:59	07/20/17 16:53	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		07/13/17 06:59	07/20/17 16:53	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/13/17 06:59	07/20/17 16:53	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/13/17 06:59	07/20/17 16:53	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4-Dimethylphenol	ND		9.6	3.3	ug/L		07/13/17 06:59	07/20/17 16:53	1
Dimethyl phthalate	ND		9.6	0.57	ug/L		07/13/17 06:59	07/20/17 16:53	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/13/17 06:59	07/20/17 16:53	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/20/17 16:53	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/13/17 06:59	07/20/17 16:53	1
1,4-Dioxane	ND		9.6	0.96	ug/L		07/13/17 06:59	07/20/17 16:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/13/17 06:59	07/20/17 16:53	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/13/17 06:59	07/20/17 16:53	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/13/17 06:59	07/20/17 16:53	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/13/17 06:59	07/20/17 16:53	1
Indene	ND		9.6	0.96	ug/L		07/13/17 06:59	07/20/17 16:53	1
Isophorone	ND		9.6	0.55	ug/L		07/13/17 06:59	07/20/17 16:53	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/13/17 06:59	07/20/17 16:53	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/13/17 06:59	07/20/17 16:53	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/13/17 06:59	07/20/17 16:53	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/13/17 06:59	07/20/17 16:53	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/13/17 06:59	07/20/17 16:53	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/13/17 06:59	07/20/17 16:53	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/13/17 06:59	07/20/17 16:53	1
N-Nitrosodimethylamine	ND		9.6	3.3	ug/L		07/13/17 06:59	07/20/17 16:53	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6C-ROX-071117
Date Collected: 07/11/17 09:45
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-3
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		9.6	3.2	ug/L		07/13/17 06:59	07/20/17 16:53	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/13/17 06:59	07/20/17 16:53	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/20/17 16:53	1
Phenol	ND		9.6	2.5	ug/L		07/13/17 06:59	07/20/17 16:53	1
Pyridine	ND	* UJ	9.6	3.1	ug/L		07/13/17 06:59	07/20/17 16:53	1
Quinoline	ND	* UJ	9.6	5.7	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/13/17 06:59	07/20/17 16:53	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		07/13/17 06:59	07/20/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 120*	*07/13/17 06:59*	*07/20/17 16:53*	*1*
2-Fluorophenol	*56*		*10 - 120*	*07/13/17 06:59*	*07/20/17 16:53*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*07/13/17 06:59*	*07/20/17 16:53*	*1*
Phenol-d5	*58*		*10 - 120*	*07/13/17 06:59*	*07/20/17 16:53*	*1*
Terphenyl-d14	*59*		*53 - 125*	*07/13/17 06:59*	*07/20/17 16:53*	*1*
2,4,6-Tribromophenol	*78*		*15 - 135*	*07/13/17 06:59*	*07/20/17 16:53*	*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		07/18/17 09:09	07/21/17 15:41	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/18/17 09:09	07/21/17 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*129*		*51 - 149*	*07/18/17 09:09*	*07/21/17 15:41*	*1*

Client Sample ID: MW6B-ROX-071117
Date Collected: 07/11/17 10:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-4
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			07/24/17 12:52	1
Acrolein	ND		20	10	ug/L			07/24/17 12:52	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 12:52	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 12:52	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 12:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 12:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 12:52	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 12:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 12:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 12:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 12:52	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 12:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 12:52	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 12:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 12:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 12:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 12:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 12:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 12:52	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 12:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 12:52	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 12:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 12:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 12:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 12:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 12:52	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 12:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 12:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 12:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 12:52	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 12:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 12:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 12:52	1

Client Sample ID: MW6B-ROX-071117
Date Collected: 07/11/17 10:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-4
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			07/24/17 12:52	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 12:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 12:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 12:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 12:52	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 12:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 12:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 12:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 12:52	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 12:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 12:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 12:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 12:52	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 12:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 12:52	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*07/24/17 12:52*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*07/24/17 12:52*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/24/17 12:52*	*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		07/13/17 06:59	07/14/17 19:21	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:21	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
1-Methylnaphthalene	**0.037**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1
2-Methylnaphthalene	**0.071**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*64*		*33 - 138*	*07/13/17 06:59*	*07/14/17 19:21*	*1*
2-Fluorobiphenyl	*71*		*15 - 122*	*07/13/17 06:59*	*07/14/17 19:21*	*1*

Client Sample ID: MW6B-ROX-071117
Date Collected: 07/11/17 10:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		19 - 130	07/13/17 06:59	07/14/17 19:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.9	3.8	ug/L		07/13/17 06:59	07/20/17 17:23	1
Benzenethiol	ND		9.9	1.7	ug/L		07/13/17 06:59	07/20/17 17:23	1
Benzoic acid	ND	*	30	7.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 17:23	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/13/17 06:59	07/20/17 17:23	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/13/17 06:59	07/20/17 17:23	1
Bis(2-ethylhexyl) phthalate	~~10~~	B U	~~9.9~~ 10	2.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/13/17 06:59	07/20/17 17:23	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/13/17 06:59	07/20/17 17:23	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 17:23	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/13/17 06:59	07/20/17 17:23	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 17:23	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/13/17 06:59	07/20/17 17:23	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/13/17 06:59	07/20/17 17:23	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/13/17 06:59	07/20/17 17:23	1
Di-n-octyl phthalate	ND		9.9	0.43	ug/L		07/13/17 06:59	07/20/17 17:23	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 17:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 17:23	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/13/17 06:59	07/20/17 17:23	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/13/17 06:59	07/20/17 17:23	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
Indene	ND		9.9	0.99	ug/L		07/13/17 06:59	07/20/17 17:23	1
Isophorone	ND		9.9	0.56	ug/L		07/13/17 06:59	07/20/17 17:23	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 17:23	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/20/17 17:23	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/13/17 06:59	07/20/17 17:23	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/13/17 06:59	07/20/17 17:23	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/13/17 06:59	07/20/17 17:23	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/13/17 06:59	07/20/17 17:23	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 17:23	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6B-ROX-071117
Date Collected: 07/11/17 10:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-4
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		9.9	3.3	ug/L		07/13/17 06:59	07/20/17 17:23	1
N-Nitrosodiphenylamine	ND		9.9	0.46	ug/L		07/13/17 06:59	07/20/17 17:23	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/20/17 17:23	1
Phenol	ND		9.9	2.6	ug/L		07/13/17 06:59	07/20/17 17:23	1
Pyridine	ND	* UJ	9.9	3.2	ug/L		07/13/17 06:59	07/20/17 17:23	1
Quinoline	ND	* UJ	9.9	5.9	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/13/17 06:59	07/20/17 17:23	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/13/17 06:59	07/20/17 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 120*	*07/13/17 06:59*	*07/20/17 17:23*	*1*
2-Fluorophenol	*44*		*10 - 120*	*07/13/17 06:59*	*07/20/17 17:23*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*07/13/17 06:59*	*07/20/17 17:23*	*1*
Phenol-d5	*46*		*10 - 120*	*07/13/17 06:59*	*07/20/17 17:23*	*1*
Terphenyl-d14	*55*		*53 - 125*	*07/13/17 06:59*	*07/20/17 17:23*	*1*
2,4,6-Tribromophenol	*67*		*15 - 135*	*07/13/17 06:59*	*07/20/17 17:23*	*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		07/18/17 09:09	07/21/17 16:00	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/18/17 09:09	07/21/17 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*157*	*X*	*51 - 149*	*07/18/17 09:09*	*07/21/17 16:00*	*1*

Client Sample ID: MW6A-ROX-071117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-5
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			07/18/17 17:43	1
Acrolein	ND		20	10	ug/L			07/18/17 17:43	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 17:43	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 17:43	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 17:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 17:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 17:43	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 17:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 17:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 17:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 17:43	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 17:43	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 17:43	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 17:43	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 17:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 17:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 17:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 17:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 17:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 17:43	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 17:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 17:43	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 17:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 17:43	1
Methyl tert-butyl ether	**2.1**		1.0	0.74	ug/L			07/18/17 17:43	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 17:43	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 17:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 17:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 17:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 17:43	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 17:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 17:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 17:43	1

Client Sample ID: MW6A-ROX-071117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-5
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			07/18/17 17:43	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 17:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 17:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 17:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 17:43	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 17:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 17:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 17:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 17:43	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 17:43	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 17:43	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 17:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 17:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 17:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 17:43	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 17:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 17:43	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 17:43*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 17:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 17:43*	*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		07/13/17 06:59	07/14/17 19:44	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 19:44	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 19:44	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
1-Methylnaphthalene	**0.023**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1
2-Methylnaphthalene	**0.024**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*33 - 138*	*07/13/17 06:59*	*07/14/17 19:44*	*1*
2-Fluorobiphenyl	*99*		*15 - 122*	*07/13/17 06:59*	*07/14/17 19:44*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6A-ROX-071117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*104*		*19 - 130*	*07/13/17 06:59*	*07/14/17 19:44*	*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		07/13/17 06:59	07/20/17 17:53	1
Benzenethiol	ND		10	1.7	ug/L		07/13/17 06:59	07/20/17 17:53	1
Benzoic acid	ND	*	30	7.3	ug/L		07/13/17 06:59	07/20/17 17:53	1
Benzyl alcohol	ND		10	2.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/13/17 06:59	07/20/17 17:53	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/13/17 06:59	07/20/17 17:53	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/13/17 06:59	07/20/17 17:53	1
Bis(2-ethylhexyl) phthalate	~~3.4~~	J B U	10	2.3	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/13/17 06:59	07/20/17 17:53	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Chloroaniline	ND		10	3.4	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/13/17 06:59	07/20/17 17:53	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/13/17 06:59	07/20/17 17:53	1
2-Chlorophenol	ND		10	2.2	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Dibenzofuran	ND		10	0.52	ug/L		07/13/17 06:59	07/20/17 17:53	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Diethyl phthalate	ND		10	0.70	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/13/17 06:59	07/20/17 17:53	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/13/17 06:59	07/20/17 17:53	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/13/17 06:59	07/20/17 17:53	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/20/17 17:53	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/13/17 06:59	07/20/17 17:53	1
1,4-Dioxane	ND		10	1.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/13/17 06:59	07/20/17 17:53	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/13/17 06:59	07/20/17 17:53	1
Hexachloroethane	ND		10	4.2	ug/L		07/13/17 06:59	07/20/17 17:53	1
Indene	ND		10	1.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
Isophorone	ND		10	0.57	ug/L		07/13/17 06:59	07/20/17 17:53	1
2-Methylphenol	ND		10	1.8	ug/L		07/13/17 06:59	07/20/17 17:53	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
2-Nitroaniline	ND		10	2.2	ug/L		07/13/17 06:59	07/20/17 17:53	1
3-Nitroaniline	ND		10	1.8	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Nitroaniline	ND		10	2.5	ug/L		07/13/17 06:59	07/20/17 17:53	1
Nitrobenzene	ND		10	0.55	ug/L		07/13/17 06:59	07/20/17 17:53	1
2-Nitrophenol	ND		10	0.65	ug/L		07/13/17 06:59	07/20/17 17:53	1
4-Nitrophenol	ND		10	2.1	ug/L		07/13/17 06:59	07/20/17 17:53	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/13/17 06:59	07/20/17 17:53	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW6A-ROX-071117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-5
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		07/13/17 06:59	07/20/17 17:53	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/13/17 06:59	07/20/17 17:53	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/20/17 17:53	1
Phenol	ND		10	2.6	ug/L		07/13/17 06:59	07/20/17 17:53	1
Pyridine	ND	* UJ	10	3.2	ug/L		07/13/17 06:59	07/20/17 17:53	1
Quinoline	ND	* UJ	10	6.0	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/13/17 06:59	07/20/17 17:53	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/13/17 06:59	07/20/17 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*34 - 120*	*07/13/17 06:59*	*07/20/17 17:53*	*1*
2-Fluorophenol	*51*		*10 - 120*	*07/13/17 06:59*	*07/20/17 17:53*	*1*
Nitrobenzene-d5	*104*		*27 - 120*	*07/13/17 06:59*	*07/20/17 17:53*	*1*
Phenol-d5	*84*		*10 - 120*	*07/13/17 06:59*	*07/20/17 17:53*	*1*
Terphenyl-d14	*77*		*53 - 125*	*07/13/17 06:59*	*07/20/17 17:53*	*1*
2,4,6-Tribromophenol	*134*		*15 - 135*	*07/13/17 06:59*	*07/20/17 17:53*	*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		07/18/17 09:09	07/21/17 17:26	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*144*		*51 - 149*	*07/18/17 09:09*	*07/21/17 17:26*	*1*

Client Sample ID: ROST3MW-ROX-071117

Date Collected: 07/11/17 13:20
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-6

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			07/18/17 18:11	1
Acrolein	ND		20	10	ug/L			07/18/17 18:11	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 18:11	1
Benzene	**0.48**	**J**	1.0	0.38	ug/L			07/18/17 18:11	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 18:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 18:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 18:11	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 18:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 18:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 18:11	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 18:11	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 18:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 18:11	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 18:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 18:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 18:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 18:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 18:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Ethylbenzene	**25**		1.0	0.50	ug/L			07/18/17 18:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 18:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 18:11	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 18:11	1
Isopropylbenzene	**2.3**		1.0	0.53	ug/L			07/18/17 18:11	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 18:11	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 18:11	1
4-Methyl-2-pentanone (MIBK)	**7.9**	**J**	25	1.8	ug/L			07/18/17 18:11	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 18:11	1
m-Xylene & p-Xylene	**22**		5.0	1.6	ug/L			07/18/17 18:11	1
Naphthalene	**5.9**		1.0	1.0	ug/L			07/18/17 18:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 18:11	1
N-Propylbenzene	**3.5**		1.0	0.69	ug/L			07/18/17 18:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 18:11	1
o-Xylene	**4.2**	**J**	5.0	0.60	ug/L			07/18/17 18:11	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 18:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 18:11	1

Client Sample ID: ROST3MW-ROX-071117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-6
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			07/18/17 18:11	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 18:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 18:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 18:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 18:11	1
Toluene	**1.2**		1.0	0.70	ug/L			07/18/17 18:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 18:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 18:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 18:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 18:11	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 18:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 18:11	1
1,2,4-Trimethylbenzene	**18**		1.0	0.82	ug/L			07/18/17 18:11	1
1,3,5-Trimethylbenzene	**2.1**		1.0	0.56	ug/L			07/18/17 18:11	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 18:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 18:11	1
Xylenes, Total	**26**		10	1.6	ug/L			07/18/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 18:11*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 18:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 18:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.16**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
Fluorene	**0.085**	**J**	0.20	0.021	ug/L		07/13/17 06:59	07/14/17 20:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:07	1
Phenanthrene	**0.18**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
Pyrene	**0.030**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
1-Methylnaphthalene	**2.9**		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1
2-Methylnaphthalene	**1.4**		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*73*		*33 - 138*	*07/13/17 06:59*	*07/14/17 20:07*	*1*
2-Fluorobiphenyl	*51*		*15 - 122*	*07/13/17 06:59*	*07/14/17 20:07*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: ROST3MW-ROX-071117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	44		19 - 130	07/13/17 06:59	07/14/17 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		07/13/17 06:59	07/19/17 16:46	1
Benzenethiol	ND		10	1.7	ug/L		07/13/17 06:59	07/19/17 16:46	1
Benzoic acid	ND	*	30	7.3	ug/L		07/13/17 06:59	07/19/17 16:46	1
Benzyl alcohol	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/13/17 06:59	07/19/17 16:46	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/13/17 06:59	07/19/17 16:46	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/13/17 06:59	07/19/17 16:46	1
Bis(2-ethylhexyl) phthalate	~~2.4~~	J B	10	2.2	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/13/17 06:59	07/19/17 16:46	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Chloroaniline	ND		10	3.4	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/13/17 06:59	07/19/17 16:46	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 16:46	1
2-Chlorophenol	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Dibenzofuran	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 16:46	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Diethyl phthalate	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:46	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/13/17 06:59	07/19/17 16:46	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/13/17 06:59	07/19/17 16:46	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 16:46	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/13/17 06:59	07/19/17 16:46	1
1,4-Dioxane	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/13/17 06:59	07/19/17 16:46	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/13/17 06:59	07/19/17 16:46	1
Hexachloroethane	ND		10	4.2	ug/L		07/13/17 06:59	07/19/17 16:46	1
Indene	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
Isophorone	ND		10	0.57	ug/L		07/13/17 06:59	07/19/17 16:46	1
2-Methylphenol	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 16:46	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
2-Nitroaniline	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 16:46	1
3-Nitroaniline	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Nitroaniline	ND		10	2.5	ug/L		07/13/17 06:59	07/19/17 16:46	1
Nitrobenzene	ND		10	0.55	ug/L		07/13/17 06:59	07/19/17 16:46	1
2-Nitrophenol	ND		10	0.65	ug/L		07/13/17 06:59	07/19/17 16:46	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		07/13/17 06:59	07/19/17 16:46	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:46	1

Client Sample ID: ROST3MW-ROX-071117

Date Collected: 07/11/17 13:20
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-6
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		07/13/17 06:59	07/19/17 16:46	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/13/17 06:59	07/19/17 16:46	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/19/17 16:46	1
Phenol	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 16:46	1
Pyridine	ND	* UJ	10	3.2	ug/L		07/13/17 06:59	07/19/17 16:46	1
Quinoline	ND	* UJ	10	6.0	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/13/17 06:59	07/19/17 16:46	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*34 - 120*	*07/13/17 06:59*	*07/19/17 16:46*	*1*
2-Fluorophenol	*21*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:46*	*1*
Nitrobenzene-d5	*46*		*27 - 120*	*07/13/17 06:59*	*07/19/17 16:46*	*1*
Phenol-d5	*36*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:46*	*1*
Terphenyl-d14	*55*		*53 - 125*	*07/13/17 06:59*	*07/19/17 16:46*	*1*
2,4,6-Tribromophenol	*68*		*15 - 135*	*07/13/17 06:59*	*07/19/17 16:46*	*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		0.030	0.0055	ug/L		07/18/17 09:09	07/21/17 17:44	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*129*		*51 - 149*	*07/18/17 09:09*	*07/21/17 17:44*	*1*

Client Sample ID: MW1-ROX-071117
Date Collected: 07/11/17 14:10
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-7
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			07/24/17 13:17	1
Acrolein	ND		20	10	ug/L			07/24/17 13:17	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 13:17	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 13:17	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 13:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 13:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 13:17	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 13:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 13:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 13:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 13:17	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 13:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 13:17	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 13:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 13:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 13:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 13:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 13:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 13:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 13:17	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 13:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 13:17	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 13:17	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 13:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 13:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 13:17	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 13:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 13:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 13:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 13:17	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 13:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 13:17	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 13:17	1

Client Sample ID: MW1-ROX-071117
Date Collected: 07/11/17 14:10
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/24/17 13:17	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 13:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 13:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 13:17	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 13:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 13:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 13:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 13:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 13:17	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 13:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 13:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 13:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 13:17	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 13:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 13:17	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*07/24/17 13:17*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*07/24/17 13:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/24/17 13:17*	*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		07/13/17 06:59	07/14/17 20:30	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
Benzo[a]anthracene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Benzo[a]pyrene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Benzo[g,h,i]perylene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Benzo[k]fluoranthene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Chrysene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Dibenz(a,h)anthracene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 20:30	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.041	ug/L		07/13/17 06:59	07/14/17 20:30	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
1-Methylnaphthalene	**0.041**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1
2-Methylnaphthalene	**0.063**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*86*		*33 - 138*	*07/13/17 06:59*	*07/14/17 20:30*	*1*
2-Fluorobiphenyl	*73*		*15 - 122*	*07/13/17 06:59*	*07/14/17 20:30*	*1*

Client Sample ID: MW1-ROX-071117
Date Collected: 07/11/17 14:10
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		19 - 130	07/13/17 06:59	07/14/17 20:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.9	ug/L		07/13/17 06:59	07/19/17 17:17	1
Benzenethiol	ND		10	1.7	ug/L		07/13/17 06:59	07/19/17 17:17	1
Benzoic acid	ND	*	30	7.4	ug/L		07/13/17 06:59	07/19/17 17:17	1
Benzyl alcohol	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Bis(2-chloroethoxy)methane	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 17:17	1
Bis(2-chloroethyl)ether	ND		10	0.75	ug/L		07/13/17 06:59	07/19/17 17:17	1
bis (2-chloroisopropyl) ether	ND		10	0.82	ug/L		07/13/17 06:59	07/19/17 17:17	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/13/17 06:59	07/19/17 17:17	1
Butyl benzyl phthalate	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Chloroaniline	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Chloro-3-methylphenol	ND		10	3.9	ug/L		07/13/17 06:59	07/19/17 17:17	1
2-Chloronaphthalene	ND		10	0.53	ug/L		07/13/17 06:59	07/19/17 17:17	1
2-Chlorophenol	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Dibenzofuran	ND		10	0.53	ug/L		07/13/17 06:59	07/19/17 17:17	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Diethyl phthalate	ND		10	0.71	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4-Dimethylphenol	ND		10	3.6	ug/L		07/13/17 06:59	07/19/17 17:17	1
Dimethyl phthalate	ND		10	0.61	ug/L		07/13/17 06:59	07/19/17 17:17	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/13/17 06:59	07/19/17 17:17	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4-Dinitrophenol	ND		30	3.5	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 17:17	1
Di-n-octyl phthalate	ND		10	0.45	ug/L		07/13/17 06:59	07/19/17 17:17	1
1,4-Dioxane	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/13/17 06:59	07/19/17 17:17	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/13/17 06:59	07/19/17 17:17	1
Hexachloroethane	ND		10	4.3	ug/L		07/13/17 06:59	07/19/17 17:17	1
Indene	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:17	1
Isophorone	ND		10	0.58	ug/L		07/13/17 06:59	07/19/17 17:17	1
2-Methylphenol	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 17:17	1
3 & 4 Methylphenol	ND		20	1.1	ug/L		07/13/17 06:59	07/19/17 17:17	1
2-Nitroaniline	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 17:17	1
3-Nitroaniline	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Nitroaniline	ND		10	2.5	ug/L		07/13/17 06:59	07/19/17 17:17	1
Nitrobenzene	ND		10	0.56	ug/L		07/13/17 06:59	07/19/17 17:17	1
2-Nitrophenol	ND		10	0.66	ug/L		07/13/17 06:59	07/19/17 17:17	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		07/13/17 06:59	07/19/17 17:17	1
N-Nitrosodimethylamine	ND		10	3.6	ug/L		07/13/17 06:59	07/19/17 17:17	1

Client Sample ID: MW1-ROX-071117
Date Collected: 07/11/17 14:10
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-7
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	3.4	ug/L		07/13/17 06:59	07/19/17 17:17	1
N-Nitrosodiphenylamine	ND		10	0.48	ug/L		07/13/17 06:59	07/19/17 17:17	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/19/17 17:17	1
Phenol	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 17:17	1
Pyridine	ND	* UJ	10	3.2	ug/L		07/13/17 06:59	07/19/17 17:17	1
Quinoline	ND	* UJ	10	6.1	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4,5-Trichlorophenol	ND		10	3.8	ug/L		07/13/17 06:59	07/19/17 17:17	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		07/13/17 06:59	07/19/17 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 120*	*07/13/17 06:59*	*07/19/17 17:17*	*1*
2-Fluorophenol	*22*		*10 - 120*	*07/13/17 06:59*	*07/19/17 17:17*	*1*
Nitrobenzene-d5	*61*		*27 - 120*	*07/13/17 06:59*	*07/19/17 17:17*	*1*
Phenol-d5	*44*		*10 - 120*	*07/13/17 06:59*	*07/19/17 17:17*	*1*
Terphenyl-d14	*61*		*53 - 125*	*07/13/17 06:59*	*07/19/17 17:17*	*1*
2,4,6-Tribromophenol	*55*		*15 - 135*	*07/13/17 06:59*	*07/19/17 17:17*	*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		07/18/17 09:09	07/21/17 18:03	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/18/17 09:09	07/21/17 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*51 - 149*	*07/18/17 09:09*	*07/21/17 18:03*	*1*

Client Sample ID: MW10-ROX-071117
Date Collected: 07/11/17 15:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-8
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			07/18/17 18:39	1
Acrolein	ND		20	10	ug/L			07/18/17 18:39	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 18:39	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 18:39	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 18:39	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 18:39	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 18:39	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 18:39	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 18:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 18:39	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 18:39	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 18:39	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 18:39	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 18:39	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 18:39	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 18:39	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 18:39	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 18:39	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 18:39	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 18:39	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 18:39	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 18:39	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 18:39	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 18:39	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 18:39	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 18:39	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 18:39	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 18:39	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 18:39	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 18:39	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 18:39	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 18:39	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/18/17 18:39	1

Client Sample ID: MW10-ROX-071117
Date Collected: 07/11/17 15:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-8
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			07/18/17 18:39	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 18:39	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 18:39	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 18:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 18:39	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 18:39	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 18:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 18:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 18:39	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 18:39	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 18:39	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 18:39	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 18:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 18:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 18:39	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 18:39	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 18:39	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/18/17 18:39*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*07/18/17 18:39*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 18:39*	*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		07/13/17 06:59	07/14/17 20:53	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 20:53	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 20:53	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
1-Methylnaphthalene	**0.020**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1
2-Methylnaphthalene	**0.021**	**J**	0.20	0.020	ug/L		07/13/17 06:59	07/14/17 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*108*		*33 - 138*	*07/13/17 06:59*	*07/14/17 20:53*	*1*
2-Fluorobiphenyl	*80*		*15 - 122*	*07/13/17 06:59*	*07/14/17 20:53*	*1*

Client Sample ID: MW10-ROX-071117

Date Collected: 07/11/17 15:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-8

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*65*		*19 - 130*	*07/13/17 06:59*	*07/14/17 20:53*	*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		07/13/17 06:59	07/19/17 17:47	1
Benzenethiol	ND		10	1.7	ug/L		07/13/17 06:59	07/19/17 17:47	1
Benzoic acid	ND	*	30	7.4	ug/L		07/13/17 06:59	07/19/17 17:47	1
Benzyl alcohol	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Bis(2-chloroethoxy)methane	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 17:47	1
Bis(2-chloroethyl)ether	ND		10	0.75	ug/L		07/13/17 06:59	07/19/17 17:47	1
bis (2-chloroisopropyl) ether	ND		10	0.82	ug/L		07/13/17 06:59	07/19/17 17:47	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/13/17 06:59	07/19/17 17:47	1
Butyl benzyl phthalate	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Chloroaniline	ND		10	3.4	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/13/17 06:59	07/19/17 17:47	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 17:47	1
2-Chlorophenol	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Dibenzofuran	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 17:47	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Diethyl phthalate	ND		10	0.71	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 17:47	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/13/17 06:59	07/19/17 17:47	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/13/17 06:59	07/19/17 17:47	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 17:47	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/13/17 06:59	07/19/17 17:47	1
1,4-Dioxane	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/13/17 06:59	07/19/17 17:47	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/13/17 06:59	07/19/17 17:47	1
Hexachloroethane	ND		10	4.2	ug/L		07/13/17 06:59	07/19/17 17:47	1
Indene	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
Isophorone	ND		10	0.57	ug/L		07/13/17 06:59	07/19/17 17:47	1
2-Methylphenol	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 17:47	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
2-Nitroaniline	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 17:47	1
3-Nitroaniline	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Nitroaniline	ND		10	2.5	ug/L		07/13/17 06:59	07/19/17 17:47	1
Nitrobenzene	ND		10	0.55	ug/L		07/13/17 06:59	07/19/17 17:47	1
2-Nitrophenol	ND		10	0.65	ug/L		07/13/17 06:59	07/19/17 17:47	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		07/13/17 06:59	07/19/17 17:47	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 17:47	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW10-ROX-071117
Date Collected: 07/11/17 15:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-8
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		07/13/17 06:59	07/19/17 17:47	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/13/17 06:59	07/19/17 17:47	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/19/17 17:47	1
Phenol	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 17:47	1
Pyridine	ND	* UJ	10	3.2	ug/L		07/13/17 06:59	07/19/17 17:47	1
Quinoline	ND	* UJ	10	6.0	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/13/17 06:59	07/19/17 17:47	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 120*	*07/13/17 06:59*	*07/19/17 17:47*	*1*
2-Fluorophenol	*49*		*10 - 120*	*07/13/17 06:59*	*07/19/17 17:47*	*1*
Nitrobenzene-d5	*69*		*27 - 120*	*07/13/17 06:59*	*07/19/17 17:47*	*1*
Phenol-d5	*60*		*10 - 120*	*07/13/17 06:59*	*07/19/17 17:47*	*1*
Terphenyl-d14	*69*		*53 - 125*	*07/13/17 06:59*	*07/19/17 17:47*	*1*
2,4,6-Tribromophenol	*73*		*15 - 135*	*07/13/17 06:59*	*07/19/17 17:47*	*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		07/18/17 09:09	07/21/17 18:21	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*130*		*51 - 149*	*07/18/17 09:09*	*07/21/17 18:21*	*1*

Client Sample ID: TB-ROX-071117-8260-A
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-9
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			07/24/17 10:49	1
Acrolein	ND		20	10	ug/L			07/24/17 10:49	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 10:49	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 10:49	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 10:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 10:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 10:49	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 10:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 10:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 10:49	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 10:49	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 10:49	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 10:49	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 10:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 10:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 10:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 10:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 10:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 10:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 10:49	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 10:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 10:49	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 10:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 10:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 10:49	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 10:49	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 10:49	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 10:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 10:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 10:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 10:49	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 10:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 10:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 10:49	1

Client Sample ID: TB-ROX-071117-8260-A
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-9
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			07/24/17 10:49	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 10:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 10:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 10:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 10:49	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 10:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 10:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 10:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 10:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 10:49	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 10:49	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 10:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 10:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 10:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 10:49	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 10:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 10:49	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/24/17 10:49*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*07/24/17 10:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/24/17 10:49*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: TB-ROX-071117-8011-A
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-10
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		07/18/17 09:09	07/21/17 18:40	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		07/18/17 09:09	07/21/17 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*137*		*51 - 149*	*07/18/17 09:09*	*07/21/17 18:40*	*1*

Client Sample ID: MW7 ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-11
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			07/24/17 13:41	5000
Acrolein	ND		100000	50000	ug/L			07/24/17 13:41	5000
Acrylonitrile	ND		50000	14000	ug/L			07/24/17 13:41	5000
Benzene	**810000**		5000	1900	ug/L			07/24/17 13:41	5000
Bromobenzene	ND		5000	2700	ug/L			07/24/17 13:41	5000
Bromochloromethane	ND		5000	2600	ug/L			07/24/17 13:41	5000
Bromodichloromethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
Bromoform	ND		25000	3600	ug/L			07/24/17 13:41	5000
Bromomethane	ND		5000	4900	ug/L			07/24/17 13:41	5000
2-Butanone (MEK)	ND		130000	13000	ug/L			07/24/17 13:41	5000
Carbon disulfide	ND		5000	2500	ug/L			07/24/17 13:41	5000
Carbon tetrachloride	ND		5000	2500	ug/L			07/24/17 13:41	5000
Chlorobenzene	ND		5000	2500	ug/L			07/24/17 13:41	5000
Dibromochloromethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
Chloroethane	ND		5000	3800	ug/L			07/24/17 13:41	5000
2-Chloroethyl vinyl ether	ND		25000	10000	ug/L			07/24/17 13:41	5000
Chloroform	ND		5000	3000	ug/L			07/24/17 13:41	5000
1-Chlorohexane	ND		5000	3500	ug/L			07/24/17 13:41	5000
Chloromethane	ND		5000	4200	ug/L			07/24/17 13:41	5000
cis-1,2-Dichloroethene	ND		5000	2500	ug/L			07/24/17 13:41	5000
cis-1,3-Dichloropropene	ND		25000	2500	ug/L			07/24/17 13:41	5000
1,2-Dichlorobenzene	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,3-Dichlorobenzene	ND		5000	2700	ug/L			07/24/17 13:41	5000
1,4-Dichlorobenzene	ND		5000	3200	ug/L			07/24/17 13:41	5000
Dichlorodifluoromethane	ND		5000	4300	ug/L			07/24/17 13:41	5000
1,1-Dichloroethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,2-Dichloroethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,1-Dichloroethene	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,2-Dichloropropane	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,3-Dichloropropane	ND		5000	2500	ug/L			07/24/17 13:41	5000
2,2-Dichloropropane	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,1-Dichloropropene	ND		5000	2500	ug/L			07/24/17 13:41	5000
Ethylbenzene	ND		5000	2500	ug/L			07/24/17 13:41	5000
Ethyl methacrylate	ND		5000	3000	ug/L			07/24/17 13:41	5000
Hexachlorobutadiene	ND		25000	4500	ug/L			07/24/17 13:41	5000
2-Hexanone	ND		130000	16000	ug/L			07/24/17 13:41	5000
Isopropylbenzene	ND		5000	2700	ug/L			07/24/17 13:41	5000
Methylene bromide	ND		25000	3000	ug/L			07/24/17 13:41	5000
Methylene Chloride	ND		25000	15000	ug/L			07/24/17 13:41	5000
4-Methyl-2-pentanone (MIBK)	ND		130000	9000	ug/L			07/24/17 13:41	5000
Methyl tert-butyl ether	ND		5000	3700	ug/L			07/24/17 13:41	5000
m-Xylene & p-Xylene	ND		25000	8000	ug/L			07/24/17 13:41	5000
Naphthalene	ND		5000	5000	ug/L			07/24/17 13:41	5000
n-Butylbenzene	ND		5000	3800	ug/L			07/24/17 13:41	5000
N-Propylbenzene	ND		5000	3500	ug/L			07/24/17 13:41	5000
o-Chlorotoluene	ND		5000	2900	ug/L			07/24/17 13:41	5000
o-Xylene	ND		25000	3000	ug/L			07/24/17 13:41	5000
p-Chlorotoluene	ND		5000	2800	ug/L			07/24/17 13:41	5000
p-Isopropyltoluene	ND		5000	3600	ug/L			07/24/17 13:41	5000

Client Sample ID: MW7 ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-11
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			07/24/17 13:41	5000
Styrene	ND		5000	5000	ug/L			07/24/17 13:41	5000
tert-Butylbenzene	ND		5000	3200	ug/L			07/24/17 13:41	5000
1,1,1,2-Tetrachloroethane	ND		5000	2600	ug/L			07/24/17 13:41	5000
1,1,2,2-Tetrachloroethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
Tetrachloroethene	ND		5000	2900	ug/L			07/24/17 13:41	5000
Toluene	ND		5000	3500	ug/L			07/24/17 13:41	5000
trans-1,2-Dichloroethene	ND		5000	2500	ug/L			07/24/17 13:41	5000
trans-1,3-Dichloropropene	ND		25000	2500	ug/L			07/24/17 13:41	5000
1,2,3-Trichlorobenzene	ND		5000	3500	ug/L			07/24/17 13:41	5000
1,2,4-Trichlorobenzene	ND		5000	4100	ug/L			07/24/17 13:41	5000
1,1,1-Trichloroethane	ND		5000	2500	ug/L			07/24/17 13:41	5000
1,1,2-Trichloroethane	ND		25000	2500	ug/L			07/24/17 13:41	5000
Trichloroethene	ND		5000	2500	ug/L			07/24/17 13:41	5000
Trichlorofluoromethane	ND		5000	2600	ug/L			07/24/17 13:41	5000
1,2,3-Trichloropropane	ND		25000	4200	ug/L			07/24/17 13:41	5000
1,2,4-Trimethylbenzene	ND		5000	4100	ug/L			07/24/17 13:41	5000
1,3,5-Trimethylbenzene	ND		5000	2800	ug/L			07/24/17 13:41	5000
Vinyl acetate	ND		130000	10000	ug/L			07/24/17 13:41	5000
Vinyl chloride	ND		5000	2500	ug/L			07/24/17 13:41	5000
Xylenes, Total	ND		50000	8000	ug/L			07/24/17 13:41	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*07/24/17 13:41*	*5000*
Dibromofluoromethane	*93*		*81 - 121*		*07/24/17 13:41*	*5000*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/24/17 13:41*	*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		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
Benzo[a]anthracene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Benzo[a]pyrene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Benzo[b]fluoranthene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Benzo[g,h,i]perylene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Benzo[k]fluoranthene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Chrysene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Dibenz(a,h)anthracene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 21:16	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:16	1
Phenanthrene	**0.13**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
1-Methylnaphthalene	**1.9**		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1
2-Methylnaphthalene	**3.0**		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*37*		*33 - 138*	*07/13/17 06:59*	*07/14/17 21:16*	*1*
2-Fluorobiphenyl	*63*		*15 - 122*	*07/13/17 06:59*	*07/14/17 21:16*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW7 ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-11
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		19 - 130	07/13/17 06:59	07/14/17 21:16	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		07/13/17 06:59	07/19/17 18:17	1
Benzenethiol	ND		9.7	1.6	ug/L		07/13/17 06:59	07/19/17 18:17	1
Benzoic acid	ND	*	29	7.1	ug/L		07/13/17 06:59	07/19/17 18:17	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:17	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/13/17 06:59	07/19/17 18:17	1
Bis(2-chloroethyl)ether	ND		9.7	0.72	ug/L		07/13/17 06:59	07/19/17 18:17	1
bis (2-chloroisopropyl) ether	ND		9.7	0.78	ug/L		07/13/17 06:59	07/19/17 18:17	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.2	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/13/17 06:59	07/19/17 18:17	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/13/17 06:59	07/19/17 18:17	1
2-Chloronaphthalene	ND		9.7	0.50	ug/L		07/13/17 06:59	07/19/17 18:17	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:17	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		07/13/17 06:59	07/19/17 18:17	1
Dibenzofuran	ND		9.7	0.50	ug/L		07/13/17 06:59	07/19/17 18:17	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/13/17 06:59	07/19/17 18:17	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4-Dimethylphenol	ND		9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:17	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/13/17 06:59	07/19/17 18:17	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/13/17 06:59	07/19/17 18:17	1
4,6-Dinitro-ortho-cresol	ND	*	9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		07/13/17 06:59	07/19/17 18:17	1
Di-n-octyl phthalate	ND		9.7	0.43	ug/L		07/13/17 06:59	07/19/17 18:17	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:17	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/13/17 06:59	07/19/17 18:17	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 18:17	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/13/17 06:59	07/19/17 18:17	1
Indene	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:17	1
Isophorone	ND		9.7	0.55	ug/L		07/13/17 06:59	07/19/17 18:17	1
2-Methylphenol	**3.5**	**J**	9.7	1.7	ug/L		07/13/17 06:59	07/19/17 18:17	1
3 & 4 Methylphenol	**4.2**	**J**	19	1.0	ug/L		07/13/17 06:59	07/19/17 18:17	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/13/17 06:59	07/19/17 18:17	1
3-Nitroaniline	ND		9.7	1.7	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/13/17 06:59	07/19/17 18:17	1
Nitrobenzene	ND		9.7	0.53	ug/L		07/13/17 06:59	07/19/17 18:17	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/13/17 06:59	07/19/17 18:17	1
4-Nitrophenol	ND	UJ	9.7	2.0	ug/L		07/13/17 06:59	07/19/17 18:17	1
N-Nitrosodimethylamine	ND		9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:17	1

Client Sample ID: MW7 ROX-071117
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-11
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		07/13/17 06:59	07/19/17 18:17	1
N-Nitrosodiphenylamine	ND		9.7	0.45	ug/L		07/13/17 06:59	07/19/17 18:17	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/19/17 18:17	1
Pyridine	ND * UJ		9.7	3.1	ug/L		07/13/17 06:59	07/19/17 18:17	1
Quinoline	ND * UJ		9.7	5.8	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/13/17 06:59	07/19/17 18:17	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 120*	*07/13/17 06:59*	*07/19/17 18:17*	*1*
2-Fluorophenol	*40*		*10 - 120*	*07/13/17 06:59*	*07/19/17 18:17*	*1*
Nitrobenzene-d5	*57*		*27 - 120*	*07/13/17 06:59*	*07/19/17 18:17*	*1*
Phenol-d5	*50*		*10 - 120*	*07/13/17 06:59*	*07/19/17 18:17*	*1*
Terphenyl-d14	*37*	X	*53 - 125*	*07/13/17 06:59*	*07/19/17 18:17*	*1*
2,4,6-Tribromophenol	*85*		*15 - 135*	*07/13/17 06:59*	*07/19/17 18:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	270		97	25	ug/L		07/13/17 06:59	07/20/17 16:55	10

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		07/18/17 09:09	07/21/17 18:58	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*07/18/17 09:09*	*07/21/17 18:58*	*1*

Client Sample ID: MW7 ROX-071117-DUP

Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-12

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			07/24/17 14:06	5000
Acrolein	ND		100000	50000	ug/L			07/24/17 14:06	5000
Acrylonitrile	ND		50000	14000	ug/L			07/24/17 14:06	5000
Benzene	**870000**		5000	1900	ug/L			07/24/17 14:06	5000
Bromobenzene	ND		5000	2700	ug/L			07/24/17 14:06	5000
Bromochloromethane	ND		5000	2600	ug/L			07/24/17 14:06	5000
Bromodichloromethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
Bromoform	ND		25000	3600	ug/L			07/24/17 14:06	5000
Bromomethane	ND		5000	4900	ug/L			07/24/17 14:06	5000
2-Butanone (MEK)	ND		130000	13000	ug/L			07/24/17 14:06	5000
Carbon disulfide	ND		5000	2500	ug/L			07/24/17 14:06	5000
Carbon tetrachloride	ND		5000	2500	ug/L			07/24/17 14:06	5000
Chlorobenzene	ND		5000	2500	ug/L			07/24/17 14:06	5000
Dibromochloromethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
Chloroethane	ND		5000	3800	ug/L			07/24/17 14:06	5000
2-Chloroethyl vinyl ether	ND		25000	10000	ug/L			07/24/17 14:06	5000
Chloroform	ND		5000	3000	ug/L			07/24/17 14:06	5000
1-Chlorohexane	ND		5000	3500	ug/L			07/24/17 14:06	5000
Chloromethane	ND		5000	4200	ug/L			07/24/17 14:06	5000
cis-1,2-Dichloroethene	ND		5000	2500	ug/L			07/24/17 14:06	5000
cis-1,3-Dichloropropene	ND		25000	2500	ug/L			07/24/17 14:06	5000
1,2-Dichlorobenzene	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,3-Dichlorobenzene	ND		5000	2700	ug/L			07/24/17 14:06	5000
1,4-Dichlorobenzene	ND		5000	3200	ug/L			07/24/17 14:06	5000
Dichlorodifluoromethane	ND		5000	4300	ug/L			07/24/17 14:06	5000
1,1-Dichloroethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,2-Dichloroethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,1-Dichloroethene	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,2-Dichloropropane	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,3-Dichloropropane	ND		5000	2500	ug/L			07/24/17 14:06	5000
2,2-Dichloropropane	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,1-Dichloropropene	ND		5000	2500	ug/L			07/24/17 14:06	5000
Ethylbenzene	ND		5000	2500	ug/L			07/24/17 14:06	5000
Ethyl methacrylate	ND		5000	3000	ug/L			07/24/17 14:06	5000
Hexachlorobutadiene	ND		25000	4500	ug/L			07/24/17 14:06	5000
2-Hexanone	ND		130000	16000	ug/L			07/24/17 14:06	5000
Isopropylbenzene	ND		5000	2700	ug/L			07/24/17 14:06	5000
Methylene bromide	ND		25000	3000	ug/L			07/24/17 14:06	5000
Methylene Chloride	ND		25000	15000	ug/L			07/24/17 14:06	5000
4-Methyl-2-pentanone (MIBK)	ND		130000	9000	ug/L			07/24/17 14:06	5000
Methyl tert-butyl ether	ND		5000	3700	ug/L			07/24/17 14:06	5000
m-Xylene & p-Xylene	ND		25000	8000	ug/L			07/24/17 14:06	5000
Naphthalene	ND		5000	5000	ug/L			07/24/17 14:06	5000
n-Butylbenzene	ND		5000	3800	ug/L			07/24/17 14:06	5000
N-Propylbenzene	ND		5000	3500	ug/L			07/24/17 14:06	5000
o-Chlorotoluene	ND		5000	2900	ug/L			07/24/17 14:06	5000
o-Xylene	ND		25000	3000	ug/L			07/24/17 14:06	5000
p-Chlorotoluene	ND		5000	2800	ug/L			07/24/17 14:06	5000
p-Isopropyltoluene	ND		5000	3600	ug/L			07/24/17 14:06	5000

Client Sample ID: MW7 ROX-071117-DUP

Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-12

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			07/24/17 14:06	5000
Styrene	ND		5000	5000	ug/L			07/24/17 14:06	5000
tert-Butylbenzene	ND		5000	3200	ug/L			07/24/17 14:06	5000
1,1,1,2-Tetrachloroethane	ND		5000	2600	ug/L			07/24/17 14:06	5000
1,1,2,2-Tetrachloroethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
Tetrachloroethene	ND		5000	2900	ug/L			07/24/17 14:06	5000
Toluene	ND		5000	3500	ug/L			07/24/17 14:06	5000
trans-1,2-Dichloroethene	ND		5000	2500	ug/L			07/24/17 14:06	5000
trans-1,3-Dichloropropene	ND		25000	2500	ug/L			07/24/17 14:06	5000
1,2,3-Trichlorobenzene	ND		5000	3500	ug/L			07/24/17 14:06	5000
1,2,4-Trichlorobenzene	ND		5000	4100	ug/L			07/24/17 14:06	5000
1,1,1-Trichloroethane	ND		5000	2500	ug/L			07/24/17 14:06	5000
1,1,2-Trichloroethane	ND		25000	2500	ug/L			07/24/17 14:06	5000
Trichloroethene	ND		5000	2500	ug/L			07/24/17 14:06	5000
Trichlorofluoromethane	ND		5000	2600	ug/L			07/24/17 14:06	5000
1,2,3-Trichloropropane	ND		25000	4200	ug/L			07/24/17 14:06	5000
1,2,4-Trimethylbenzene	ND		5000	4100	ug/L			07/24/17 14:06	5000
1,3,5-Trimethylbenzene	ND		5000	2800	ug/L			07/24/17 14:06	5000
Vinyl acetate	ND		130000	10000	ug/L			07/24/17 14:06	5000
Vinyl chloride	ND		5000	2500	ug/L			07/24/17 14:06	5000
Xylenes, Total	ND		50000	8000	ug/L			07/24/17 14:06	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/24/17 14:06*	*5000*
Dibromofluoromethane	*92*		*81 - 121*		*07/24/17 14:06*	*5000*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/24/17 14:06*	*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		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
Benzo[a]anthracene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Benzo[a]pyrene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Benzo[b]fluoranthene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Benzo[g,h,i]perylene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Benzo[k]fluoranthene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Chrysene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Dibenz(a,h)anthracene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 21:39	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.039	ug/L		07/13/17 06:59	07/14/17 21:39	1
Phenanthrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
1-Methylnaphthalene	**1.6**		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1
2-Methylnaphthalene	**2.5**		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*34*		*33 - 138*	*07/13/17 06:59*	*07/14/17 21:39*	*1*
2-Fluorobiphenyl	*61*		*15 - 122*	*07/13/17 06:59*	*07/14/17 21:39*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: MW7 ROX-071117-DUP
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-12
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*	*07/13/17 06:59*	*07/14/17 21:39*	*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		07/13/17 06:59	07/19/17 18:47	1
Benzenethiol	ND		9.7	1.7	ug/L		07/13/17 06:59	07/19/17 18:47	1
Benzoic acid	ND	*	29	7.1	ug/L		07/13/17 06:59	07/19/17 18:47	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/13/17 06:59	07/19/17 18:47	1
Bis(2-chloroethyl)ether	ND		9.7	0.72	ug/L		07/13/17 06:59	07/19/17 18:47	1
bis (2-chloroisopropyl) ether	ND		9.7	0.79	ug/L		07/13/17 06:59	07/19/17 18:47	1
Bis(2-ethylhexyl) phthalate	~~7.7~~	J B U	9.7	2.2	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/13/17 06:59	07/19/17 18:47	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/13/17 06:59	07/19/17 18:47	1
2-Chloronaphthalene	ND		9.7	0.51	ug/L		07/13/17 06:59	07/19/17 18:47	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
Dibenzofuran	ND		9.7	0.51	ug/L		07/13/17 06:59	07/19/17 18:47	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4-Dimethylphenol	3.8	J	9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:47	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/13/17 06:59	07/19/17 18:47	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/13/17 06:59	07/19/17 18:47	1
4,6-Dinitro-ortho-cresol	ND	*	9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4-Dinitrotoluene	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,6-Dinitrotoluene	ND		9.7	1.9	ug/L		07/13/17 06:59	07/19/17 18:47	1
Di-n-octyl phthalate	ND		9.7	0.43	ug/L		07/13/17 06:59	07/19/17 18:47	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:47	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:47	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/13/17 06:59	07/19/17 18:47	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 18:47	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/13/17 06:59	07/19/17 18:47	1
Indene	ND		9.7	0.97	ug/L		07/13/17 06:59	07/19/17 18:47	1
Isophorone	ND		9.7	0.56	ug/L		07/13/17 06:59	07/19/17 18:47	1
2-Methylphenol	3.4	J	9.7	1.8	ug/L		07/13/17 06:59	07/19/17 18:47	1
3 & 4 Methylphenol	4.7	J	19	1.0	ug/L		07/13/17 06:59	07/19/17 18:47	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/13/17 06:59	07/19/17 18:47	1
3-Nitroaniline	ND		9.7	1.8	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/13/17 06:59	07/19/17 18:47	1
Nitrobenzene	ND		9.7	0.54	ug/L		07/13/17 06:59	07/19/17 18:47	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/13/17 06:59	07/19/17 18:47	1
4-Nitrophenol	ND	UJ	9.7	2.0	ug/L		07/13/17 06:59	07/19/17 18:47	1
N-Nitrosodimethylamine	ND		9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:47	1

Client Sample ID: MW7 ROX-071117-DUP
Date Collected: 07/11/17 08:50
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-12
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		07/13/17 06:59	07/19/17 18:47	1
N-Nitrosodiphenylamine	ND		9.7	0.46	ug/L		07/13/17 06:59	07/19/17 18:47	1
Pentachlorophenol	ND		19	1.8	ug/L		07/13/17 06:59	07/19/17 18:47	1
Pyridine	ND * UJ		9.7	3.1	ug/L		07/13/17 06:59	07/19/17 18:47	1
Quinoline	ND * UJ		9.7	5.8	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/13/17 06:59	07/19/17 18:47	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/13/17 06:59	07/19/17 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 120*	*07/13/17 06:59*	*07/19/17 18:47*	*1*
2-Fluorophenol	*34*		*10 - 120*	*07/13/17 06:59*	*07/19/17 18:47*	*1*
Nitrobenzene-d5	*57*		*27 - 120*	*07/13/17 06:59*	*07/19/17 18:47*	*1*
Phenol-d5	*48*		*10 - 120*	*07/13/17 06:59*	*07/19/17 18:47*	*1*
Terphenyl-d14	*39*	*X*	*53 - 125*	*07/13/17 06:59*	*07/19/17 18:47*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*07/13/17 06:59*	*07/19/17 18:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	240		97	25	ug/L		07/13/17 06:59	07/20/17 17:29	10

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		07/18/17 09:09	07/21/17 19:17	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:09	07/21/17 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*		*51 - 149*	*07/18/17 09:09*	*07/21/17 19:17*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P114R-ROX-071117
Date Collected: 07/11/17 11:35
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-13
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			07/24/17 09:11	1
Acrolein	ND		20	10	ug/L			07/24/17 09:11	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 09:11	1
Benzene	**0.47**	**J**	1.0	0.38	ug/L			07/24/17 09:11	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 09:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 09:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 09:11	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 09:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 09:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 09:11	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			07/24/17 09:11	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 09:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 09:11	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 09:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 09:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 09:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 09:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 09:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 09:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 09:11	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 09:11	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 09:11	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 09:11	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 09:11	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 09:11	1
Methyl tert-butyl ether	**0.82**	**J**	1.0	0.74	ug/L			07/24/17 09:11	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 09:11	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 09:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 09:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 09:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 09:11	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 09:11	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 09:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 09:11	1

Client Sample ID: P114R-ROX-071117
Date Collected: 07/11/17 11:35
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-13
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			07/24/17 09:11	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 09:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 09:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 09:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 09:11	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 09:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 09:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 09:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 09:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 09:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 09:11	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 09:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 09:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 09:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 09:11	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 09:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 09:11	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/24/17 09:11*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*07/24/17 09:11*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/24/17 09:11*	*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		07/13/17 06:59	07/14/17 22:02	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Chrysene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 22:02	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:02	1
Phenanthrene	**0.15**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
1-Methylnaphthalene	**0.095**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1
2-Methylnaphthalene	**0.14**	**J**	0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*31*	*X*	*33 - 138*	*07/13/17 06:59*	*07/14/17 22:02*	*1*
2-Fluorobiphenyl	*56*		*15 - 122*	*07/13/17 06:59*	*07/14/17 22:02*	*1*

Client Sample ID: P114R-ROX-071117
Date Collected: 07/11/17 11:35
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-13
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	52		19 - 130	07/13/17 06:59	07/14/17 22:02	1

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		07/13/17 06:59	07/19/17 19:17	1
Benzenethiol	ND		9.6	1.6	ug/L		07/13/17 06:59	07/19/17 19:17	1
Benzoic acid	ND	*	29	7.0	ug/L		07/13/17 06:59	07/19/17 19:17	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:17	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 19:17	1
Bis(2-chloroethyl)ether	ND		9.6	0.71	ug/L		07/13/17 06:59	07/19/17 19:17	1
bis (2-chloroisopropyl) ether	ND		9.6	0.78	ug/L		07/13/17 06:59	07/19/17 19:17	1
Bis(2-ethylhexyl) phthalate	~~3.4~~	J B UJ	9.6	2.2	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/13/17 06:59	07/19/17 19:17	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Chloroaniline	ND		9.6	3.3	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Chloro-3-methylphenol	ND		9.6	3.7	ug/L		07/13/17 06:59	07/19/17 19:17	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 19:17	1
2-Chlorophenol	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:17	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 19:17	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 19:17	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 19:17	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4-Dimethylphenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:17	1
Dimethyl phthalate	ND		9.6	0.58	ug/L		07/13/17 06:59	07/19/17 19:17	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/13/17 06:59	07/19/17 19:17	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 19:17	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/13/17 06:59	07/19/17 19:17	1
1,4-Dioxane	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:17	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/13/17 06:59	07/19/17 19:17	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 19:17	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/13/17 06:59	07/19/17 19:17	1
Indene	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:17	1
Isophorone	ND		9.6	0.55	ug/L		07/13/17 06:59	07/19/17 19:17	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 19:17	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/13/17 06:59	07/19/17 19:17	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 19:17	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/13/17 06:59	07/19/17 19:17	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/13/17 06:59	07/19/17 19:17	1
2-Nitrophenol	ND		9.6	0.63	ug/L		07/13/17 06:59	07/19/17 19:17	1
4-Nitrophenol	ND	UJ	9.6	2.0	ug/L		07/13/17 06:59	07/19/17 19:17	1
N-Nitrosodimethylamine	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:17	1

Client Sample ID: P114R-ROX-071117
Date Collected: 07/11/17 11:35
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-13
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		07/13/17 06:59	07/19/17 19:17	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/13/17 06:59	07/19/17 19:17	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/19/17 19:17	1
Phenol	ND		9.6	2.5	ug/L		07/13/17 06:59	07/19/17 19:17	1
Pyridine	ND * UJ		9.6	3.1	ug/L		07/13/17 06:59	07/19/17 19:17	1
Quinoline	ND * UJ		9.6	5.8	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4,5-Trichlorophenol	ND		9.6	3.6	ug/L		07/13/17 06:59	07/19/17 19:17	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 120*	*07/13/17 06:59*	*07/19/17 19:17*	*1*
2-Fluorophenol	*39*		*10 - 120*	*07/13/17 06:59*	*07/19/17 19:17*	*1*
Nitrobenzene-d5	*59*		*27 - 120*	*07/13/17 06:59*	*07/19/17 19:17*	*1*
Phenol-d5	*51*		*10 - 120*	*07/13/17 06:59*	*07/19/17 19:17*	*1*
Terphenyl-d14	*38*	*X*	*53 - 125*	*07/13/17 06:59*	*07/19/17 19:17*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*07/13/17 06:59*	*07/19/17 19:17*	*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		07/18/17 09:09	07/21/17 19:54	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:09	07/21/17 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*127*		*51 - 149*	*07/18/17 09:09*	*07/21/17 19:54*	*1*

Client Sample ID: P93D-ROX-07117
Date Collected: 07/11/17 13:40
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-14
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			07/24/17 12:03	1
Acrolein	ND		20	10	ug/L			07/24/17 12:03	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 12:03	1
Benzene	**12**		1.0	0.38	ug/L			07/24/17 12:03	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 12:03	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 12:03	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 12:03	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 12:03	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 12:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 12:03	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 12:03	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 12:03	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 12:03	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 12:03	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:03	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 12:03	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 12:03	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 12:03	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 12:03	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 12:03	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 12:03	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 12:03	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 12:03	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 12:03	1
Methyl tert-butyl ether	**4.1**		1.0	0.74	ug/L			07/24/17 12:03	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 12:03	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 12:03	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 12:03	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 12:03	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 12:03	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 12:03	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 12:03	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 12:03	1

Client Sample ID: P93D-ROX-07117
Date Collected: 07/11/17 13:40
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-14
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			07/24/17 12:03	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 12:03	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 12:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 12:03	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 12:03	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 12:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 12:03	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:03	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 12:03	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 12:03	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 12:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 12:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 12:03	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 12:03	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 12:03	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/24/17 12:03*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*07/24/17 12:03*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/24/17 12:03*	*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		07/13/17 06:59	07/14/17 22:25	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Chrysene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 22:25	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:25	1
Phenanthrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*69*		*33 - 138*	*07/13/17 06:59*	*07/14/17 22:25*	*1*
2-Fluorobiphenyl	*81*		*15 - 122*	*07/13/17 06:59*	*07/14/17 22:25*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93D-ROX-07117
Date Collected: 07/11/17 13:40
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-14
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		19 - 130	07/13/17 06:59	07/14/17 22:25	1

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		07/13/17 06:59	07/19/17 19:47	1
Benzenethiol	ND		9.6	1.6	ug/L		07/13/17 06:59	07/19/17 19:47	1
Benzoic acid	ND	*	29	7.0	ug/L		07/13/17 06:59	07/19/17 19:47	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:47	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 19:47	1
Bis(2-chloroethyl)ether	ND		9.6	0.71	ug/L		07/13/17 06:59	07/19/17 19:47	1
bis (2-chloroisopropyl) ether	ND		9.6	0.78	ug/L		07/13/17 06:59	07/19/17 19:47	1
Bis(2-ethylhexyl) phthalate	~~8.7~~	J B U	9.6	2.2	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/13/17 06:59	07/19/17 19:47	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Chloroaniline	ND		9.6	3.3	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Chloro-3-methylphenol	ND		9.6	3.7	ug/L		07/13/17 06:59	07/19/17 19:47	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 19:47	1
2-Chlorophenol	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:47	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 19:47	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 19:47	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 19:47	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4-Dimethylphenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:47	1
Dimethyl phthalate	ND		9.6	0.58	ug/L		07/13/17 06:59	07/19/17 19:47	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/13/17 06:59	07/19/17 19:47	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 19:47	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/13/17 06:59	07/19/17 19:47	1
1,4-Dioxane	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:47	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:47	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/13/17 06:59	07/19/17 19:47	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 19:47	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/13/17 06:59	07/19/17 19:47	1
Indene	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 19:47	1
Isophorone	ND		9.6	0.55	ug/L		07/13/17 06:59	07/19/17 19:47	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 19:47	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/13/17 06:59	07/19/17 19:47	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 19:47	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/13/17 06:59	07/19/17 19:47	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/13/17 06:59	07/19/17 19:47	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/13/17 06:59	07/19/17 19:47	1
4-Nitrophenol	ND	UJ	9.6	2.0	ug/L		07/13/17 06:59	07/19/17 19:47	1
N-Nitrosodimethylamine	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:47	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93D-ROX-07117
Date Collected: 07/11/17 13:40
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-14
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		07/13/17 06:59	07/19/17 19:47	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/13/17 06:59	07/19/17 19:47	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/19/17 19:47	1
Phenol	ND		9.6	2.5	ug/L		07/13/17 06:59	07/19/17 19:47	1
Pyridine	ND	* UJ	9.6	3.1	ug/L		07/13/17 06:59	07/19/17 19:47	1
Quinoline	ND	* UJ	9.6	5.8	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4,5-Trichlorophenol	ND		9.6	3.6	ug/L		07/13/17 06:59	07/19/17 19:47	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*07/13/17 06:59*	*07/19/17 19:47*	*1*
2-Fluorophenol	*56*		*10 - 120*	*07/13/17 06:59*	*07/19/17 19:47*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*07/13/17 06:59*	*07/19/17 19:47*	*1*
Phenol-d5	*60*		*10 - 120*	*07/13/17 06:59*	*07/19/17 19:47*	*1*
Terphenyl-d14	*62*		*53 - 125*	*07/13/17 06:59*	*07/19/17 19:47*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*07/13/17 06:59*	*07/19/17 19:47*	*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		07/18/17 09:09	07/21/17 20:12	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*124*		*51 - 149*	*07/18/17 09:09*	*07/21/17 20:12*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93B-ROX-07117
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			07/18/17 20:01	1000
Acrolein	ND		20000	10000	ug/L			07/18/17 20:01	1000
Acrylonitrile	ND		10000	2800	ug/L			07/18/17 20:01	1000
Benzene	**180000**		1000	380	ug/L			07/18/17 20:01	1000
Bromobenzene	ND		1000	540	ug/L			07/18/17 20:01	1000
Bromochloromethane	ND		1000	520	ug/L			07/18/17 20:01	1000
Bromodichloromethane	ND		1000	500	ug/L			07/18/17 20:01	1000
Bromoform	ND		5000	710	ug/L			07/18/17 20:01	1000
Bromomethane	ND		1000	980	ug/L			07/18/17 20:01	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			07/18/17 20:01	1000
Carbon disulfide	ND		1000	500	ug/L			07/18/17 20:01	1000
Carbon tetrachloride	ND		1000	500	ug/L			07/18/17 20:01	1000
Chlorobenzene	ND		1000	500	ug/L			07/18/17 20:01	1000
Dibromochloromethane	ND		1000	500	ug/L			07/18/17 20:01	1000
Chloroethane	ND		1000	760	ug/L			07/18/17 20:01	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			07/18/17 20:01	1000
Chloroform	ND		1000	600	ug/L			07/18/17 20:01	1000
1-Chlorohexane	ND		1000	700	ug/L			07/18/17 20:01	1000
Chloromethane	ND		1000	830	ug/L			07/18/17 20:01	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:01	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			07/18/17 20:01	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			07/18/17 20:01	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			07/18/17 20:01	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			07/18/17 20:01	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			07/18/17 20:01	1000
1,1-Dichloroethane	ND		1000	500	ug/L			07/18/17 20:01	1000
1,2-Dichloroethane	ND		1000	500	ug/L			07/18/17 20:01	1000
1,1-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:01	1000
1,2-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:01	1000
1,3-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:01	1000
2,2-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:01	1000
1,1-Dichloropropene	ND		1000	500	ug/L			07/18/17 20:01	1000
Ethylbenzene	ND		1000	500	ug/L			07/18/17 20:01	1000
Ethyl methacrylate	ND		1000	600	ug/L			07/18/17 20:01	1000
Hexachlorobutadiene	ND		5000	900	ug/L			07/18/17 20:01	1000
2-Hexanone	ND		25000	3100	ug/L			07/18/17 20:01	1000
Isopropylbenzene	ND		1000	530	ug/L			07/18/17 20:01	1000
Methylene bromide	ND		5000	590	ug/L			07/18/17 20:01	1000
Methylene Chloride	ND		5000	3000	ug/L			07/18/17 20:01	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			07/18/17 20:01	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			07/18/17 20:01	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			07/18/17 20:01	1000
Naphthalene	ND		1000	1000	ug/L			07/18/17 20:01	1000
n-Butylbenzene	ND		1000	760	ug/L			07/18/17 20:01	1000
N-Propylbenzene	ND		1000	690	ug/L			07/18/17 20:01	1000
o-Chlorotoluene	ND		1000	570	ug/L			07/18/17 20:01	1000
o-Xylene	ND		5000	600	ug/L			07/18/17 20:01	1000
p-Chlorotoluene	ND		1000	560	ug/L			07/18/17 20:01	1000
p-Isopropyltoluene	ND		1000	710	ug/L			07/18/17 20:01	1000

Client Sample ID: P93B-ROX-07117

Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			07/18/17 20:01	1000
Styrene	ND		1000	1000	ug/L			07/18/17 20:01	1000
tert-Butylbenzene	ND		1000	630	ug/L			07/18/17 20:01	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			07/18/17 20:01	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			07/18/17 20:01	1000
Tetrachloroethene	ND		1000	580	ug/L			07/18/17 20:01	1000
Toluene	ND		1000	700	ug/L			07/18/17 20:01	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:01	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			07/18/17 20:01	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			07/18/17 20:01	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			07/18/17 20:01	1000
1,1,1-Trichloroethane	ND		1000	500	ug/L			07/18/17 20:01	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			07/18/17 20:01	1000
Trichloroethene	ND		1000	500	ug/L			07/18/17 20:01	1000
Trichlorofluoromethane	ND		1000	520	ug/L			07/18/17 20:01	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			07/18/17 20:01	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			07/18/17 20:01	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			07/18/17 20:01	1000
Vinyl acetate	ND		25000	2000	ug/L			07/18/17 20:01	1000
Vinyl chloride	ND		1000	500	ug/L			07/18/17 20:01	1000
Xylenes, Total	ND		10000	1600	ug/L			07/18/17 20:01	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 20:01*	*1000*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 20:01*	*1000*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/18/17 20:01*	*1000*

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		07/13/17 06:59	07/14/17 22:48	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Chrysene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 22:48	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 22:48	1
Phenanthrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*54*		*33 - 138*	*07/13/17 06:59*	*07/14/17 22:48*	*1*
2-Fluorobiphenyl	*68*		*15 - 122*	*07/13/17 06:59*	*07/14/17 22:48*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93B-ROX-07117
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-15
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		19 - 130	07/13/17 06:59	07/14/17 22:48	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		07/13/17 06:59	07/19/17 20:17	1
Benzenethiol	ND		9.5	1.6	ug/L		07/13/17 06:59	07/19/17 20:17	1
Benzoic acid	ND	*	29	6.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
Benzyl alcohol	ND		9.5	1.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		07/13/17 06:59	07/19/17 20:17	1
Bis(2-chloroethyl)ether	ND		9.5	0.70	ug/L		07/13/17 06:59	07/19/17 20:17	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		07/13/17 06:59	07/19/17 20:17	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.1	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		07/13/17 06:59	07/19/17 20:17	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Chloroaniline	ND		9.5	3.2	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		07/13/17 06:59	07/19/17 20:17	1
2-Chloronaphthalene	ND		9.5	0.49	ug/L		07/13/17 06:59	07/19/17 20:17	1
2-Chlorophenol	ND		9.5	2.1	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
Dibenz[a,h]acridine	ND		9.5	2.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
Dibenzofuran	ND		9.5	0.49	ug/L		07/13/17 06:59	07/19/17 20:17	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4-Dichlorophenol	ND		9.5	2.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
Diethyl phthalate	ND		9.5	0.67	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		07/13/17 06:59	07/19/17 20:17	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		07/13/17 06:59	07/19/17 20:17	1
Di-n-butyl phthalate	ND		9.5	2.6	ug/L		07/13/17 06:59	07/19/17 20:17	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		07/13/17 06:59	07/19/17 20:17	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		07/13/17 06:59	07/19/17 20:17	1
1,4-Dioxane	ND		9.5	0.95	ug/L		07/13/17 06:59	07/19/17 20:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		07/13/17 06:59	07/19/17 20:17	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		07/13/17 06:59	07/19/17 20:17	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 20:17	1
Hexachloroethane	ND		9.5	4.0	ug/L		07/13/17 06:59	07/19/17 20:17	1
Indene	ND		9.5	0.95	ug/L		07/13/17 06:59	07/19/17 20:17	1
Isophorone	ND		9.5	0.54	ug/L		07/13/17 06:59	07/19/17 20:17	1
2-Methylphenol	ND		9.5	1.7	ug/L		07/13/17 06:59	07/19/17 20:17	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/13/17 06:59	07/19/17 20:17	1
2-Nitroaniline	ND		9.5	2.1	ug/L		07/13/17 06:59	07/19/17 20:17	1
3-Nitroaniline	ND		9.5	1.7	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Nitroaniline	ND		9.5	2.4	ug/L		07/13/17 06:59	07/19/17 20:17	1
Nitrobenzene	ND		9.5	0.52	ug/L		07/13/17 06:59	07/19/17 20:17	1
2-Nitrophenol	ND		9.5	0.62	ug/L		07/13/17 06:59	07/19/17 20:17	1
4-Nitrophenol	ND	UJ	9.5	2.0	ug/L		07/13/17 06:59	07/19/17 20:17	1
N-Nitrosodimethylamine	ND		9.5	3.3	ug/L		07/13/17 06:59	07/19/17 20:17	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93B-ROX-07117
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-15
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		07/13/17 06:59	07/19/17 20:17	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		07/13/17 06:59	07/19/17 20:17	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/19/17 20:17	1
Pyridine	ND	* UJ	9.5	3.0	ug/L		07/13/17 06:59	07/19/17 20:17	1
Quinoline	ND	* UJ	9.5	5.7	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		07/13/17 06:59	07/19/17 20:17	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		07/13/17 06:59	07/19/17 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*07/13/17 06:59*	*07/19/17 20:17*	*1*
2-Fluorophenol	*44*		*10 - 120*	*07/13/17 06:59*	*07/19/17 20:17*	*1*
Nitrobenzene-d5	*62*		*27 - 120*	*07/13/17 06:59*	*07/19/17 20:17*	*1*
Phenol-d5	*50*		*10 - 120*	*07/13/17 06:59*	*07/19/17 20:17*	*1*
Terphenyl-d14	*54*		*53 - 125*	*07/13/17 06:59*	*07/19/17 20:17*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*07/13/17 06:59*	*07/19/17 20:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	160		95	25	ug/L		07/13/17 06:59	07/20/17 18:02	10

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		07/18/17 09:09	07/21/17 20:31	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:09	07/21/17 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*07/18/17 09:09*	*07/21/17 20:31*	*1*

Client Sample ID: P93B-ROX-07117-DUP
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			07/18/17 20:28	1000
Acrolein	ND		20000	10000	ug/L			07/18/17 20:28	1000
Acrylonitrile	ND		10000	2800	ug/L			07/18/17 20:28	1000
Benzene	**180000**		1000	380	ug/L			07/18/17 20:28	1000
Bromobenzene	ND		1000	540	ug/L			07/18/17 20:28	1000
Bromochloromethane	ND		1000	520	ug/L			07/18/17 20:28	1000
Bromodichloromethane	ND		1000	500	ug/L			07/18/17 20:28	1000
Bromoform	ND		5000	710	ug/L			07/18/17 20:28	1000
Bromomethane	ND		1000	980	ug/L			07/18/17 20:28	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			07/18/17 20:28	1000
Carbon disulfide	ND		1000	500	ug/L			07/18/17 20:28	1000
Carbon tetrachloride	ND		1000	500	ug/L			07/18/17 20:28	1000
Chlorobenzene	ND		1000	500	ug/L			07/18/17 20:28	1000
Dibromochloromethane	ND		1000	500	ug/L			07/18/17 20:28	1000
Chloroethane	ND		1000	760	ug/L			07/18/17 20:28	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			07/18/17 20:28	1000
Chloroform	ND		1000	600	ug/L			07/18/17 20:28	1000
1-Chlorohexane	ND		1000	700	ug/L			07/18/17 20:28	1000
Chloromethane	ND		1000	830	ug/L			07/18/17 20:28	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:28	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			07/18/17 20:28	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			07/18/17 20:28	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			07/18/17 20:28	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			07/18/17 20:28	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			07/18/17 20:28	1000
1,1-Dichloroethane	ND		1000	500	ug/L			07/18/17 20:28	1000
1,2-Dichloroethane	ND		1000	500	ug/L			07/18/17 20:28	1000
1,1-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:28	1000
1,2-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:28	1000
1,3-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:28	1000
2,2-Dichloropropane	ND		1000	500	ug/L			07/18/17 20:28	1000
1,1-Dichloropropene	ND		1000	500	ug/L			07/18/17 20:28	1000
Ethylbenzene	ND		1000	500	ug/L			07/18/17 20:28	1000
Ethyl methacrylate	ND		1000	600	ug/L			07/18/17 20:28	1000
Hexachlorobutadiene	ND		5000	900	ug/L			07/18/17 20:28	1000
2-Hexanone	ND		25000	3100	ug/L			07/18/17 20:28	1000
Isopropylbenzene	ND		1000	530	ug/L			07/18/17 20:28	1000
Methylene bromide	ND		5000	590	ug/L			07/18/17 20:28	1000
Methylene Chloride	ND		5000	3000	ug/L			07/18/17 20:28	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			07/18/17 20:28	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			07/18/17 20:28	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			07/18/17 20:28	1000
Naphthalene	ND		1000	1000	ug/L			07/18/17 20:28	1000
n-Butylbenzene	ND		1000	760	ug/L			07/18/17 20:28	1000
N-Propylbenzene	ND		1000	690	ug/L			07/18/17 20:28	1000
o-Chlorotoluene	ND		1000	570	ug/L			07/18/17 20:28	1000
o-Xylene	ND		5000	600	ug/L			07/18/17 20:28	1000
p-Chlorotoluene	ND		1000	560	ug/L			07/18/17 20:28	1000
p-Isopropyltoluene	ND		1000	710	ug/L			07/18/17 20:28	1000

Client Sample ID: P93B-ROX-07117-DUP

Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			07/18/17 20:28	1000
Styrene	ND		1000	1000	ug/L			07/18/17 20:28	1000
tert-Butylbenzene	ND		1000	630	ug/L			07/18/17 20:28	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			07/18/17 20:28	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			07/18/17 20:28	1000
Tetrachloroethene	ND		1000	580	ug/L			07/18/17 20:28	1000
Toluene	ND		1000	700	ug/L			07/18/17 20:28	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			07/18/17 20:28	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			07/18/17 20:28	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			07/18/17 20:28	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			07/18/17 20:28	1000
1,1,1-Trichloroethane	ND		1000	500	ug/L			07/18/17 20:28	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			07/18/17 20:28	1000
Trichloroethene	ND		1000	500	ug/L			07/18/17 20:28	1000
Trichlorofluoromethane	ND		1000	520	ug/L			07/18/17 20:28	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			07/18/17 20:28	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			07/18/17 20:28	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			07/18/17 20:28	1000
Vinyl acetate	ND		25000	2000	ug/L			07/18/17 20:28	1000
Vinyl chloride	ND		1000	500	ug/L			07/18/17 20:28	1000
Xylenes, Total	ND		10000	1600	ug/L			07/18/17 20:28	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/18/17 20:28*	*1000*
Dibromofluoromethane	*102*		*81 - 121*		*07/18/17 20:28*	*1000*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/18/17 20:28*	*1000*

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		07/13/17 06:59	07/14/17 23:11	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
Anthracene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Chrysene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Fluoranthene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
Fluorene	ND		0.19	0.020	ug/L		07/13/17 06:59	07/14/17 23:11	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/13/17 06:59	07/14/17 23:11	1
Phenanthrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
Pyrene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
1-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		07/13/17 06:59	07/14/17 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*59*		*33 - 138*	*07/13/17 06:59*	*07/14/17 23:11*	*1*
2-Fluorobiphenyl	*79*		*15 - 122*	*07/13/17 06:59*	*07/14/17 23:11*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93B-ROX-07117-DUP
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-16
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		19 - 130	07/13/17 06:59	07/14/17 23:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	9.6	3.6	ug/L		07/13/17 06:59	07/19/17 20:48	1
Benzenethiol	ND		9.6	1.6	ug/L		07/13/17 06:59	07/19/17 20:48	1
Benzoic acid	ND	*	29	7.0	ug/L		07/13/17 06:59	07/19/17 20:48	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 20:48	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 20:48	1
Bis(2-chloroethyl)ether	ND		9.6	0.71	ug/L		07/13/17 06:59	07/19/17 20:48	1
bis (2-chloroisopropyl) ether	ND		9.6	0.78	ug/L		07/13/17 06:59	07/19/17 20:48	1
Bis(2-ethylhexyl) phthalate	~~5.2~~	J B 4	9.6	2.2	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/13/17 06:59	07/19/17 20:48	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Chloroaniline	ND		9.6	3.3	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/13/17 06:59	07/19/17 20:48	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 20:48	1
2-Chlorophenol	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/13/17 06:59	07/19/17 20:48	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 20:48	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/13/17 06:59	07/19/17 20:48	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/13/17 06:59	07/19/17 20:48	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4-Dimethylphenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 20:48	1
Dimethyl phthalate	ND		9.6	0.58	ug/L		07/13/17 06:59	07/19/17 20:48	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/13/17 06:59	07/19/17 20:48	1
4,6-Dinitro-ortho-cresol	ND	*	9.6	1.9	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/13/17 06:59	07/19/17 20:48	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/13/17 06:59	07/19/17 20:48	1
1,4-Dioxane	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 20:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 20:48	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/13/17 06:59	07/19/17 20:48	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/13/17 06:59	07/19/17 20:48	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/13/17 06:59	07/19/17 20:48	1
Indene	ND		9.6	0.96	ug/L		07/13/17 06:59	07/19/17 20:48	1
Isophorone	ND		9.6	0.55	ug/L		07/13/17 06:59	07/19/17 20:48	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 20:48	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/13/17 06:59	07/19/17 20:48	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/13/17 06:59	07/19/17 20:48	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/13/17 06:59	07/19/17 20:48	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/13/17 06:59	07/19/17 20:48	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/13/17 06:59	07/19/17 20:48	1
4-Nitrophenol	ND	UJ	9.6	2.0	ug/L		07/13/17 06:59	07/19/17 20:48	1
N-Nitrosodimethylamine	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 20:48	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: P93B-ROX-07117-DUP
Date Collected: 07/11/17 14:30
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-16
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		07/13/17 06:59	07/19/17 20:48	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/13/17 06:59	07/19/17 20:48	1
Pentachlorophenol	ND		19	1.7	ug/L		07/13/17 06:59	07/19/17 20:48	1
Pyridine	ND	* UJ	9.6	3.1	ug/L		07/13/17 06:59	07/19/17 20:48	1
Quinoline	ND	* UJ	9.6	5.8	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4,5-Trichlorophenol	ND		9.6	3.6	ug/L		07/13/17 06:59	07/19/17 20:48	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		07/13/17 06:59	07/19/17 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*07/13/17 06:59*	*07/19/17 20:48*	*1*
2-Fluorophenol	*48*		*10 - 120*	*07/13/17 06:59*	*07/19/17 20:48*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*07/13/17 06:59*	*07/19/17 20:48*	*1*
Phenol-d5	*58*		*10 - 120*	*07/13/17 06:59*	*07/19/17 20:48*	*1*
Terphenyl-d14	*61*		*53 - 125*	*07/13/17 06:59*	*07/19/17 20:48*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*07/13/17 06:59*	*07/19/17 20:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**220**		96	25	ug/L		07/13/17 06:59	07/20/17 18:36	10

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		0.033	0.0060	ug/L		07/18/17 09:09	07/21/17 20:49	1
1,2-Dibromoethane	ND		0.022	0.0054	ug/L		07/18/17 09:09	07/21/17 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*51 - 149*	*07/18/17 09:09*	*07/21/17 20:49*	*1*

Client Sample ID: TB-ROX-07117-8260
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-17
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			07/24/17 11:14	1
Acrolein	ND		20	10	ug/L			07/24/17 11:14	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 11:14	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 11:14	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 11:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 11:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 11:14	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 11:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 11:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 11:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 11:14	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 11:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 11:14	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 11:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 11:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 11:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 11:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 11:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 11:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 11:14	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 11:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 11:14	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 11:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 11:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 11:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 11:14	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 11:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 11:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 11:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 11:14	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 11:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 11:14	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 11:14	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: TB-ROX-07117-8260
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-17
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			07/24/17 11:14	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 11:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 11:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 11:14	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 11:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 11:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 11:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 11:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 11:14	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 11:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 11:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 11:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 11:14	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 11:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 11:14	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*07/24/17 11:14*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*07/24/17 11:14*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/24/17 11:14*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: TB-ROX-07117-8011
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 11:42

Lab Sample ID: 400-140392-18
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		07/18/17 09:09	07/21/17 21:08	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*130*		*51 - 149*	*07/18/17 09:09*	*07/21/17 21:08*	*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.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 400-140392-1

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)
400-140347-B-1 MS	Matrix Spike	100	103	99
400-140347-B-1 MSD	Matrix Spike Duplicate	101	103	98
400-140392-1	MW6D-ROX-071117	100	101	96
400-140392-2	MW6D-ROX-071117-DUP	99	103	98
400-140392-3	MW6C-ROX-071117	99	101	97
400-140392-4	MW6B-ROX-071117	92	94	93
400-140392-5	MW6A-ROX-071117	101	102	98
400-140392-6	ROST3MW-ROX-071117	101	101	97
400-140392-7	MW1-ROX-071117	93	94	97
400-140392-8	MW10-ROX-071117	100	103	97
400-140392-9	TB-ROX-071117-8260-A	94	92	96
400-140392-11	MW7 ROX-071117	95	93	97
400-140392-12	MW7 ROX-071117-DUP	94	92	98
400-140392-13	P114R-ROX-071117	94	93	95
400-140392-13 MS	P114R-ROX-071117	91	99	96
400-140392-13 MSD	P114R-ROX-071117	88	102	94
400-140392-14	P93D-ROX-07117	94	96	93
400-140392-15	P93B-ROX-07117	101	102	97
400-140392-16	P93B-ROX-07117-DUP	100	102	96
400-140392-17	TB-ROX-07117-8260	93	97	95
LCS 400-360800/1003	Lab Control Sample	101	104	97
LCS 400-361425/1002	Lab Control Sample	91	101	96
MB 400-360800/5	Method Blank	101	101	98
MB 400-361425/28	Method Blank	90	93	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)
400-140392-1	MW6D-ROX-071117	66	51	60	57	56	76
400-140392-2	MW6D-ROX-071117-DUP	57	36	53	31	22 X	47
400-140392-3	MW6C-ROX-071117	66	56	60	58	59	78
400-140392-4	MW6B-ROX-071117	63	44	60	46	55	67
400-140392-5	MW6A-ROX-071117	109	51	104	84	77	134
400-140392-6	ROST3MW-ROX-071117	48	21	46	36	55	68
400-140392-7	MW1-ROX-071117	66	22	61	44	61	55
400-140392-8	MW10-ROX-071117	73	49	69	60	69	73
400-140392-11	MW7 ROX-071117	64	40	57	50	37 X	85
400-140392-12	MW7 ROX-071117-DUP	64	34	57	48	39 X	88
400-140392-13	P114R-ROX-071117	63	39	59	51	38 X	86
400-140392-14	P93D-ROX-07117	79	56	78	60	62	97
400-140392-15	P93B-ROX-07117	70	44	62	50	54	90

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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)
400-140392-16	P93B-ROX-07117-DUP	82	48	75	58	61	107
LCS 400-360266/2-A	Lab Control Sample	78	63	70	69	72	91
LCSD 400-360266/3-A	Lab Control Sample Dup	106	89	94	86	96	125
MB 400-360266/1-A	Method Blank	78	60	70	61	75	63

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)
400-140392-1	MW6D-ROX-071117	79	75	57
400-140392-2	MW6D-ROX-071117-DUP	24 X	68	51
400-140392-3	MW6C-ROX-071117	79	72	59
400-140392-4	MW6B-ROX-071117	64	71	60
400-140392-5	MW6A-ROX-071117	79	99	104
400-140392-6	ROST3MW-ROX-071117	73	51	44
400-140392-7	MW1-ROX-071117	86	73	58
400-140392-8	MW10-ROX-071117	108	80	65
400-140392-11	MW7 ROX-071117	37	63	51
400-140392-12	MW7 ROX-071117-DUP	34	61	50
400-140392-13	P114R-ROX-071117	31 X	56	52
400-140392-14	P93D-ROX-07117	69	81	72
400-140392-15	P93B-ROX-07117	54	68	58
400-140392-16	P93B-ROX-07117-DUP	59	79	71
LCS 400-360266/2-A	Lab Control Sample	78	79	71
LCSD 400-360266/3-A	Lab Control Sample Dup	126	101	98
MB 400-360266/1-A	Method Blank	129	82	68

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)
400-140392-1	MW6D-ROX-071117	60
400-140392-2	MW6D-ROX-071117-DUP	149

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	**Client Sample ID**	**(51-149)**
400-140392-3	MW6C-ROX-071117	129
400-140392-4	MW6B-ROX-071117	157 X
400-140392-5	MW6A-ROX-071117	144
400-140392-6	ROST3MW-ROX-071117	129
400-140392-7	MW1-ROX-071117	119
400-140392-8	MW10-ROX-071117	130
400-140392-10	TB-ROX-071117-8011-A	137
400-140392-11	MW7 ROX-071117	136
400-140392-12	MW7 ROX-071117-DUP	125
400-140392-13	P114R-ROX-071117	127
400-140392-14	P93D-ROX-07117	124
400-140392-15	P93B-ROX-07117	111
400-140392-16	P93B-ROX-07117-DUP	110
400-140392-18	TB-ROX-07117-8011	130
LCS 400-360823/2-A	Lab Control Sample	103
LCSD 400-360823/3-A	Lab Control Sample Dup	112
MB 400-360823/1-A	Method Blank	116

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

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: MW6D-ROX-071117

Lab Sample ID: 400-140392-1

Date Collected: 07/11/17 08:50

Matrix: Water

Date Received: 07/12/17 11:42

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	360800	07/18/17 16:21	SAB	TAL PEN
Total/NA	Prep	3520C			1010.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 15:52	S1B	TAL PEN
Total/NA	Prep	3520C			1010.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 18:12	CS	TAL PEN
Total/NA	Prep	8011			32.3 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361080	07/20/17 02:57	DS	TAL PEN
Total/NA	Prep	8011			32.3 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 14:46	MAM	TAL PEN

Client Sample ID: MW6D-ROX-071117-DUP

Lab Sample ID: 400-140392-2

Date Collected: 07/11/17 08:50

Matrix: Water

Date Received: 07/12/17 11:42

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	360800	07/18/17 16:49	SAB	TAL PEN
Total/NA	Prep	3520C			1010.2 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 16:23	S1B	TAL PEN
Total/NA	Prep	3520C			1010.2 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 18:35	CS	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 15:04	MAM	TAL PEN

Client Sample ID: MW6C-ROX-071117

Lab Sample ID: 400-140392-3

Date Collected: 07/11/17 09:45

Matrix: Water

Date Received: 07/12/17 11:42

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	360800	07/18/17 17:16	SAB	TAL PEN
Total/NA	Prep	3520C			1045.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 16:53	S1B	TAL PEN
Total/NA	Prep	3520C			1045.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 18:58	CS	TAL PEN
Total/NA	Prep	8011			34.2 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 15:41	MAM	TAL PEN

Client Sample ID: MW6B-ROX-071117

Lab Sample ID: 400-140392-4

Date Collected: 07/11/17 10:30

Matrix: Water

Date Received: 07/12/17 11:42

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	361425	07/24/17 12:52	RS	TAL PEN

Client Sample ID: MW6B-ROX-071117

Lab Sample ID: 400-140392-4

Date Collected: 07/11/17 10:30

Matrix: Water

Date Received: 07/12/17 11:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1011.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 17:23	S1B	TAL PEN
Total/NA	Prep	3520C			1011.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 19:21	CS	TAL PEN
Total/NA	Prep	8011			34.3 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 16:00	MAM	TAL PEN

Client Sample ID: MW6A-ROX-071117

Lab Sample ID: 400-140392-5

Date Collected: 07/11/17 11:15

Matrix: Water

Date Received: 07/12/17 11:42

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	360800	07/18/17 17:43	SAB	TAL PEN
Total/NA	Prep	3520C			995.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	361135	07/20/17 17:53	S1B	TAL PEN
Total/NA	Prep	3520C			995.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 19:44	CS	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 17:26	MAM	TAL PEN

Client Sample ID: ROST3MW-ROX-071117

Lab Sample ID: 400-140392-6

Date Collected: 07/11/17 13:20

Matrix: Water

Date Received: 07/12/17 11:42

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	360800	07/18/17 18:11	SAB	TAL PEN
Total/NA	Prep	3520C			1004.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 16:46	S1B	TAL PEN
Total/NA	Prep	3520C			1004.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 20:07	CS	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 17:44	MAM	TAL PEN

Client Sample ID: MW1-ROX-071117

Lab Sample ID: 400-140392-7

Date Collected: 07/11/17 14:10

Matrix: Water

Date Received: 07/12/17 11:42

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	361425	07/24/17 13:17	RS	TAL PEN
Total/NA	Prep	3520C			984.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 17:17	S1B	TAL PEN
Total/NA	Prep	3520C			984.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 20:30	CS	TAL PEN

Client Sample ID: MW1-ROX-071117

Lab Sample ID: 400-140392-7

Date Collected: 07/11/17 14:10
Matrix: Water
Date Received: 07/12/17 11:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.4 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 18:03	MAM	TAL PEN

Client Sample ID: MW10-ROX-071117

Lab Sample ID: 400-140392-8

Date Collected: 07/11/17 15:00
Matrix: Water
Date Received: 07/12/17 11:42

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	360800	07/18/17 18:39	SAB	TAL PEN
Total/NA	Prep	3520C			992.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 17:47	S1B	TAL PEN
Total/NA	Prep	3520C			992.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 20:53	CS	TAL PEN
Total/NA	Prep	8011			34.9 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 18:21	MAM	TAL PEN

Client Sample ID: TB-ROX-071117-8260-A

Lab Sample ID: 400-140392-9

Date Collected: 07/11/17 00:00
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 10:49	RS	TAL PEN

Client Sample ID: TB-ROX-071117-8011-A

Lab Sample ID: 400-140392-10

Date Collected: 07/11/17 00:00
Matrix: Water
Date Received: 07/12/17 11:42

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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 18:40	MAM	TAL PEN

Client Sample ID: MW7 ROX-071117

Lab Sample ID: 400-140392-11

Date Collected: 07/11/17 08:50
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 13:41	RS	TAL PEN
Total/NA	Prep	3520C	DL		1034.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	10			361154	07/20/17 16:55	S1B	TAL PEN
Total/NA	Prep	3520C			1034.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 18:17	S1B	TAL PEN
Total/NA	Prep	3520C			1034.8 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 21:16	CS	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 18:58	MAM	TAL PEN

Client Sample ID: MW7 ROX-071117-DUP

Lab Sample ID: 400-140392-12

Date Collected: 07/11/17 08:50
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 14:06	RS	TAL PEN
Total/NA	Prep	3520C	DL		1026.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	10			361154	07/20/17 17:29	S1B	TAL PEN
Total/NA	Prep	3520C			1026.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 18:47	S1B	TAL PEN
Total/NA	Prep	3520C			1026.4 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 21:39	CS	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 19:17	MAM	TAL PEN

Client Sample ID: P114R-ROX-071117

Lab Sample ID: 400-140392-13

Date Collected: 07/11/17 11:35
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 09:11	RS	TAL PEN
Total/NA	Prep	3520C			1039.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 19:17	S1B	TAL PEN
Total/NA	Prep	3520C			1039.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 22:02	CS	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 19:54	MAM	TAL PEN

Client Sample ID: P93D-ROX-07117

Lab Sample ID: 400-140392-14

Date Collected: 07/11/17 13:40
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 12:03	RS	TAL PEN
Total/NA	Prep	3520C			1041 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 19:47	S1B	TAL PEN
Total/NA	Prep	3520C			1041 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 22:25	CS	TAL PEN
Total/NA	Prep	8011			34.9 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 20:12	MAM	TAL PEN

Client Sample ID: P93B-ROX-07117

Lab Sample ID: 400-140392-15

Date Collected: 07/11/17 14:30

Matrix: Water

Date Received: 07/12/17 11:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	360800	07/18/17 20:01	SAB	TAL PEN
Total/NA	Prep	3520C	DL		1051.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	10			361154	07/20/17 18:02	S1B	TAL PEN
Total/NA	Prep	3520C			1051.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 20:17	S1B	TAL PEN
Total/NA	Prep	3520C			1051.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 22:48	CS	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 20:31	MAM	TAL PEN

Client Sample ID: P93B-ROX-07117-DUP

Lab Sample ID: 400-140392-16

Date Collected: 07/11/17 14:30

Matrix: Water

Date Received: 07/12/17 11:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	360800	07/18/17 20:28	SAB	TAL PEN
Total/NA	Prep	3520C	DL		1041.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	10			361154	07/20/17 18:36	S1B	TAL PEN
Total/NA	Prep	3520C			1041.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 20:48	S1B	TAL PEN
Total/NA	Prep	3520C			1041.6 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 23:11	CS	TAL PEN
Total/NA	Prep	8011			32.2 mL	35 mL	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 20:49	MAM	TAL PEN

Client Sample ID: TB-ROX-07117-8260

Lab Sample ID: 400-140392-17

Date Collected: 07/11/17 00:00

Matrix: Water

Date Received: 07/12/17 11:42

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	361425	07/24/17 11:14	RS	TAL PEN

Client Sample ID: TB-ROX-07117-8011

Lab Sample ID: 400-140392-18

Date Collected: 07/11/17 00:00

Matrix: Water

Date Received: 07/12/17 11:42

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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 21:08	MAM	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-360266/1-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 16:24	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 17:03	CS	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-360800/5**
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	360800	07/18/17 12:14	SAB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-360823/1-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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 13:46	MAM	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-361425/28**
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	361425	07/24/17 08:46	RS	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360266/2-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 16:55	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 17:26	CS	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360800/1003**
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	360800	07/18/17 11:16	SAB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-360823/2-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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 14:09	MAM	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-361425/1002**
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	361425	07/24/17 07:49	RS	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-360266/3-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	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361032	07/19/17 17:26	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360266	07/13/17 06:59	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			360544	07/14/17 17:49	CS	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-360823/3-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	360823	07/18/17 09:09	DS	TAL PEN
Total/NA	Analysis	8011		1			361274	07/21/17 14:27	MAM	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-140347-B-1 MS**
Date Collected: 07/10/17 09:35 — Matrix: Water
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:04	SAB	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 400-140347-B-1 MSD

Date Collected: 07/10/17 09:35
Matrix: Water
Date Received: 07/11/17 08:42

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	360800	07/18/17 14:31	SAB	TAL PEN

Client Sample ID: P114R-ROX-071117

Lab Sample ID: 400-140392-13 MS

Date Collected: 07/11/17 11:35
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 09:35	RS	TAL PEN

Client Sample ID: P114R-ROX-071117

Lab Sample ID: 400-140392-13 MSD

Date Collected: 07/11/17 11:35
Matrix: Water
Date Received: 07/12/17 11:42

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	361425	07/24/17 10:00	RS	TAL PEN

Laboratory References:

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

GC/MS VOA

Analysis Batch: 360800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8260B	
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	8260B	
400-140392-3	MW6C-ROX-071117	Total/NA	Water	8260B	
400-140392-5	MW6A-ROX-071117	Total/NA	Water	8260B	
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	8260B	
400-140392-8	MW10-ROX-071117	Total/NA	Water	8260B	
400-140392-15	P93B-ROX-07117	Total/NA	Water	8260B	
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	8260B	
MB 400-360800/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360800/1003	Lab Control Sample	Total/NA	Water	8260B	
400-140347-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-140347-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 361425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-4	MW6B-ROX-071117	Total/NA	Water	8260B	
400-140392-7	MW1-ROX-071117	Total/NA	Water	8260B	
400-140392-9	TB-ROX-071117-8260-A	Total/NA	Water	8260B	
400-140392-11	MW7 ROX-071117	Total/NA	Water	8260B	
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	8260B	
400-140392-13	P114R-ROX-071117	Total/NA	Water	8260B	
400-140392-14	P93D-ROX-07117	Total/NA	Water	8260B	
400-140392-17	TB-ROX-07117-8260	Total/NA	Water	8260B	
MB 400-361425/28	Method Blank	Total/NA	Water	8260B	
LCS 400-361425/1002	Lab Control Sample	Total/NA	Water	8260B	
400-140392-13 MS	P114R-ROX-071117	Total/NA	Water	8260B	
400-140392-13 MSD	P114R-ROX-071117	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 360266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	3520C	
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	3520C	
400-140392-3	MW6C-ROX-071117	Total/NA	Water	3520C	
400-140392-4	MW6B-ROX-071117	Total/NA	Water	3520C	
400-140392-5	MW6A-ROX-071117	Total/NA	Water	3520C	
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	3520C	
400-140392-7	MW1-ROX-071117	Total/NA	Water	3520C	
400-140392-8	MW10-ROX-071117	Total/NA	Water	3520C	
400-140392-11 - DL	MW7 ROX-071117	Total/NA	Water	3520C	
400-140392-11	MW7 ROX-071117	Total/NA	Water	3520C	
400-140392-12 - DL	MW7 ROX-071117-DUP	Total/NA	Water	3520C	
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	3520C	
400-140392-13	P114R-ROX-071117	Total/NA	Water	3520C	
400-140392-14	P93D-ROX-07117	Total/NA	Water	3520C	
400-140392-15 - DL	P93B-ROX-07117	Total/NA	Water	3520C	
400-140392-15	P93B-ROX-07117	Total/NA	Water	3520C	
400-140392-16 - DL	P93B-ROX-07117-DUP	Total/NA	Water	3520C	
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 360266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-360266/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360266/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360266/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 360544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	8270D LL	360266
400-140392-3	MW6C-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-4	MW6B-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-5	MW6A-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-7	MW1-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-8	MW10-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-11	MW7 ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	8270D LL	360266
400-140392-13	P114R-ROX-071117	Total/NA	Water	8270D LL	360266
400-140392-14	P93D-ROX-07117	Total/NA	Water	8270D LL	360266
400-140392-15	P93B-ROX-07117	Total/NA	Water	8270D LL	360266
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	8270D LL	360266
MB 400-360266/1-A	Method Blank	Total/NA	Water	8270D LL	360266
LCS 400-360266/2-A	Lab Control Sample	Total/NA	Water	8270D LL	360266
LCSD 400-360266/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	360266

Analysis Batch: 361032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-360266/1-A	Method Blank	Total/NA	Water	8270D	360266
LCS 400-360266/2-A	Lab Control Sample	Total/NA	Water	8270D	360266
LCSD 400-360266/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360266

Analysis Batch: 361035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	8270D	360266
400-140392-7	MW1-ROX-071117	Total/NA	Water	8270D	360266
400-140392-8	MW10-ROX-071117	Total/NA	Water	8270D	360266
400-140392-11	MW7 ROX-071117	Total/NA	Water	8270D	360266
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	8270D	360266
400-140392-13	P114R-ROX-071117	Total/NA	Water	8270D	360266
400-140392-14	P93D-ROX-07117	Total/NA	Water	8270D	360266
400-140392-15	P93B-ROX-07117	Total/NA	Water	8270D	360266
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	8270D	360266

Analysis Batch: 361135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8270D	360266
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	8270D	360266
400-140392-3	MW6C-ROX-071117	Total/NA	Water	8270D	360266
400-140392-4	MW6B-ROX-071117	Total/NA	Water	8270D	360266
400-140392-5	MW6A-ROX-071117	Total/NA	Water	8270D	360266

GC/MS Semi VOA (Continued)

Analysis Batch: 361154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-11 - DL	MW7 ROX-071117	Total/NA	Water	8270D	360266
400-140392-12 - DL	MW7 ROX-071117-DUP	Total/NA	Water	8270D	360266
400-140392-15 - DL	P93B-ROX-07117	Total/NA	Water	8270D	360266
400-140392-16 - DL	P93B-ROX-07117-DUP	Total/NA	Water	8270D	360266

GC Semi VOA

Prep Batch: 360823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8011	
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	8011	
400-140392-3	MW6C-ROX-071117	Total/NA	Water	8011	
400-140392-4	MW6B-ROX-071117	Total/NA	Water	8011	
400-140392-5	MW6A-ROX-071117	Total/NA	Water	8011	
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	8011	
400-140392-7	MW1-ROX-071117	Total/NA	Water	8011	
400-140392-8	MW10-ROX-071117	Total/NA	Water	8011	
400-140392-10	TB-ROX-071117-8011-A	Total/NA	Water	8011	
400-140392-11	MW7 ROX-071117	Total/NA	Water	8011	
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	8011	
400-140392-13	P114R-ROX-071117	Total/NA	Water	8011	
400-140392-14	P93D-ROX-07117	Total/NA	Water	8011	
400-140392-15	P93B-ROX-07117	Total/NA	Water	8011	
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	8011	
400-140392-18	TB-ROX-07117-8011	Total/NA	Water	8011	
MB 400-360823/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-360823/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-360823/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 361080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8011	360823

Analysis Batch: 361274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-1	MW6D-ROX-071117	Total/NA	Water	8011	360823
400-140392-2	MW6D-ROX-071117-DUP	Total/NA	Water	8011	360823
400-140392-3	MW6C-ROX-071117	Total/NA	Water	8011	360823
400-140392-4	MW6B-ROX-071117	Total/NA	Water	8011	360823
400-140392-5	MW6A-ROX-071117	Total/NA	Water	8011	360823
400-140392-6	ROST3MW-ROX-071117	Total/NA	Water	8011	360823
400-140392-7	MW1-ROX-071117	Total/NA	Water	8011	360823
400-140392-8	MW10-ROX-071117	Total/NA	Water	8011	360823
400-140392-10	TB-ROX-071117-8011-A	Total/NA	Water	8011	360823
400-140392-11	MW7 ROX-071117	Total/NA	Water	8011	360823
400-140392-12	MW7 ROX-071117-DUP	Total/NA	Water	8011	360823
400-140392-13	P114R-ROX-071117	Total/NA	Water	8011	360823
400-140392-14	P93D-ROX-07117	Total/NA	Water	8011	360823
400-140392-15	P93B-ROX-07117	Total/NA	Water	8011	360823
400-140392-16	P93B-ROX-07117-DUP	Total/NA	Water	8011	360823

GC Semi VOA (Continued)

Analysis Batch: 361274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140392-18	TB-ROX-07117-8011	Total/NA	Water	8011	360823
MB 400-360823/1-A	Method Blank	Total/NA	Water	8011	360823
LCS 400-360823/2-A	Lab Control Sample	Total/NA	Water	8011	360823
LCSD 400-360823/3-A	Lab Control Sample Dup	Total/NA	Water	8011	360823

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
Acrolein	ND		20	10	ug/L			07/18/17 12:14	1
Acrylonitrile	ND		10	2.8	ug/L			07/18/17 12:14	1
Benzene	ND		1.0	0.38	ug/L			07/18/17 12:14	1
Bromobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Bromoform	ND		5.0	0.71	ug/L			07/18/17 12:14	1
Bromomethane	ND		1.0	0.98	ug/L			07/18/17 12:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/18/17 12:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Chloroethane	ND		1.0	0.76	ug/L			07/18/17 12:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/18/17 12:14	1
Chloroform	ND		1.0	0.60	ug/L			07/18/17 12:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Chloromethane	ND		1.0	0.83	ug/L			07/18/17 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/18/17 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/18/17 12:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/18/17 12:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/18/17 12:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/18/17 12:14	1
2-Hexanone	ND		25	3.1	ug/L			07/18/17 12:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/18/17 12:14	1
Methylene bromide	ND		5.0	0.59	ug/L			07/18/17 12:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/18/17 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/18/17 12:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/18/17 12:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/18/17 12:14	1
Naphthalene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/18/17 12:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/17 12:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/18/17 12:14	1
o-Xylene	ND		5.0	0.60	ug/L			07/18/17 12:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/18/17 12:14	1

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

Lab Sample ID: MB 400-360800/5
Matrix: Water
Analysis Batch: 360800

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			07/18/17 12:14	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
Styrene	ND		1.0	1.0	ug/L			07/18/17 12:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/18/17 12:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/18/17 12:14	1
Toluene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/18/17 12:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/18/17 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/18/17 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/18/17 12:14	1
Trichloroethene	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/18/17 12:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/18/17 12:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/18/17 12:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/18/17 12:14	1
Vinyl acetate	ND		25	2.0	ug/L			07/18/17 12:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/18/17 12:14	1
Xylenes, Total	ND		10	1.6	ug/L			07/18/17 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/18/17 12:14*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/18/17 12:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/18/17 12:14*	*1*

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	184		ug/L		92	43 - 160
Acrolein	500	510		ug/L		102	38 - 160
Acrylonitrile	500	508		ug/L		102	64 - 142
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromobenzene	50.0	49.1		ug/L		98	70 - 132
Bromochloromethane	50.0	56.6		ug/L		113	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 133
Bromoform	50.0	46.6		ug/L		93	57 - 140
Bromomethane	50.0	52.0		ug/L		104	10 - 160
2-Butanone (MEK)	200	202		ug/L		101	61 - 145
Carbon disulfide	50.0	44.3		ug/L		89	61 - 137
Carbon tetrachloride	50.0	48.6		ug/L		97	61 - 137
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	50.0	49.3		ug/L		99	67 - 135
Chloroethane	50.0	48.8		ug/L		98	55 - 141

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	27.1		ug/L		54	10 - 160
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	45.7		ug/L		91	69 - 130
Chloromethane	50.0	50.5		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	67 - 130
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	47.4		ug/L		95	41 - 146
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	63 - 134
1,2-Dichloropropane	50.0	48.0		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	48.5		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	50.8		ug/L		102	52 - 135
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Ethyl methacrylate	50.0	49.5		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	48.4		ug/L		97	53 - 140
2-Hexanone	200	201		ug/L		100	65 - 137
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
Methylene bromide	50.0	51.1		ug/L		102	70 - 130
Methylene Chloride	50.0	48.1		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	69 - 138
Methyl tert-butyl ether	50.0	48.5		ug/L		97	66 - 130
m-Xylene & p-Xylene	50.0	47.9		ug/L		96	70 - 130
Naphthalene	50.0	49.6		ug/L		99	47 - 149
n-Butylbenzene	50.0	48.7		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.7		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	48.2		ug/L		96	70 - 130
p-Chlorotoluene	50.0	48.6		ug/L		97	70 - 130
p-Isopropyltoluene	50.0	49.2		ug/L		98	65 - 130
sec-Butylbenzene	50.0	48.4		ug/L		97	66 - 130
Styrene	50.0	49.0		ug/L		98	70 - 130
tert-Butylbenzene	50.0	48.2		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 131
Tetrachloroethene	50.0	50.6		ug/L		101	65 - 130
Toluene	50.0	46.7		ug/L		93	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	60 - 138
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 130

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

Lab Sample ID: LCS 400-360800/1003
Matrix: Water
Analysis Batch: 360800

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	47.7		ug/L		95	65 - 138
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	48.0		ug/L		96	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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	199		ug/L		99	43 - 160
Acrolein	ND		500	562		ug/L		112	38 - 160
Acrylonitrile	ND		500	560		ug/L		112	62 - 149
Benzene	ND		50.0	45.9		ug/L		92	56 - 142
Bromobenzene	ND		50.0	47.6		ug/L		95	59 - 136
Bromochloromethane	ND		50.0	58.4		ug/L		117	64 - 140
Bromodichloromethane	ND		50.0	48.2		ug/L		96	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	34.4		ug/L		69	10 - 160
2-Butanone (MEK)	ND		200	227		ug/L		114	55 - 150
Carbon disulfide	ND		50.0	41.3		ug/L		83	48 - 152
Carbon tetrachloride	ND		50.0	44.8		ug/L		90	55 - 145
Chlorobenzene	ND		50.0	45.7		ug/L		91	64 - 130
Dibromochloromethane	ND		50.0	50.3		ug/L		101	56 - 143
Chloroethane	ND		50.0	39.8		ug/L		80	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.6		ug/L		97	60 - 141
1-Chlorohexane	ND		50.0	40.5		ug/L		81	56 - 136
Chloromethane	ND		50.0	45.0		ug/L		90	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.0		ug/L		98	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	46.7		ug/L		93	52 - 137
1,3-Dichlorobenzene	ND		50.0	45.5		ug/L		91	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.4		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	44.6		ug/L		89	16 - 160
1,1-Dichloroethane	ND		50.0	47.8		ug/L		96	61 - 144
1,2-Dichloroethane	ND		50.0	50.2		ug/L		100	60 - 141
1,1-Dichloroethene	ND		50.0	45.5		ug/L		91	54 - 147
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	66 - 137
1,3-Dichloropropane	ND		50.0	51.1		ug/L		102	66 - 133

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

Lab Sample ID: 400-140347-B-1 MS
Matrix: Water
Analysis Batch: 360800

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	47.9		ug/L		96	42 - 144
1,1-Dichloropropene	ND		50.0	45.2		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	44.4		ug/L		89	58 - 131
Ethyl methacrylate	ND		50.0	52.2		ug/L		104	64 - 130
Hexachlorobutadiene	ND		50.0	39.9		ug/L		80	31 - 149
2-Hexanone	ND		200	227		ug/L		113	65 - 140
Isopropylbenzene	ND		50.0	43.4		ug/L		87	56 - 133
Methylene bromide	ND		50.0	54.0		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	47.9		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	224		ug/L		112	63 - 146
Methyl tert-butyl ether	ND		50.0	50.5		ug/L		101	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.8		ug/L		88	57 - 130
Naphthalene	ND		50.0	51.5		ug/L		103	25 - 160
n-Butylbenzene	ND		50.0	41.1		ug/L		82	41 - 142
N-Propylbenzene	ND		50.0	42.9		ug/L		86	51 - 138
o-Chlorotoluene	ND		50.0	44.8		ug/L		90	53 - 134
o-Xylene	ND		50.0	45.1		ug/L		90	61 - 130
p-Chlorotoluene	ND		50.0	44.3		ug/L		89	54 - 133
p-Isopropyltoluene	ND		50.0	42.6		ug/L		85	48 - 139
sec-Butylbenzene	ND		50.0	42.3		ug/L		85	50 - 138
Styrene	ND		50.0	46.1		ug/L		92	58 - 131
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.1		ug/L		108	66 - 135
Tetrachloroethene	ND		50.0	41.5		ug/L		83	52 - 133
Toluene	ND		50.0	45.0		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	46.6		ug/L		93	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.9		ug/L		96	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	46.5		ug/L		93	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	44.9		ug/L		90	39 - 148
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	57 - 142
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	66 - 131
Trichloroethene	ND		50.0	45.4		ug/L		91	64 - 136
Trichlorofluoromethane	ND		50.0	45.4		ug/L		91	54 - 156
1,2,3-Trichloropropane	ND		50.0	55.0		ug/L		110	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	44.0		ug/L		88	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	43.4		ug/L		87	52 - 135
Vinyl acetate	ND		100	117		ug/L		117	26 - 160
Vinyl chloride	ND		50.0	45.2		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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	166		ug/L		83	43 - 160	18	30
Acrolein	ND		500	518		ug/L		104	38 - 160	8	31
Acrylonitrile	ND		500	501		ug/L		100	62 - 149	11	30
Benzene	ND		50.0	45.8		ug/L		92	56 - 142	0	30
Bromobenzene	ND		50.0	45.3		ug/L		91	59 - 136	5	30
Bromochloromethane	ND		50.0	55.3		ug/L		111	64 - 140	5	30
Bromodichloromethane	ND		50.0	46.5		ug/L		93	59 - 143	3	30
Bromoform	ND		50.0	43.5		ug/L		87	50 - 140	8	30
Bromomethane	ND		50.0	40.3		ug/L		81	10 - 160	16	50
2-Butanone (MEK)	ND		200	199		ug/L		99	55 - 150	13	30
Carbon disulfide	ND		50.0	42.0		ug/L		84	48 - 152	2	30
Carbon tetrachloride	ND		50.0	46.0		ug/L		92	55 - 145	3	30
Chlorobenzene	ND		50.0	44.7		ug/L		89	64 - 130	2	30
Dibromochloromethane	ND		50.0	47.3		ug/L		95	56 - 143	6	30
Chloroethane	ND		50.0	41.0		ug/L		82	50 - 151	3	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	47.5		ug/L		95	60 - 141	2	30
1-Chlorohexane	ND		50.0	40.8		ug/L		82	56 - 136	1	30
Chloromethane	ND		50.0	47.1		ug/L		94	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143	3	30
cis-1,3-Dichloropropene	ND		50.0	46.0		ug/L		92	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	44.9		ug/L		90	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	44.6		ug/L		89	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	43.7		ug/L		87	53 - 135	4	30
Dichlorodifluoromethane	ND		50.0	47.0		ug/L		94	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	47.4		ug/L		95	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	60 - 141	5	30
1,1-Dichloroethene	ND		50.0	46.3		ug/L		93	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	46.8		ug/L		94	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	47.6		ug/L		95	66 - 133	7	30
2,2-Dichloropropane	ND		50.0	48.7		ug/L		97	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	45.6		ug/L		91	65 - 136	1	30
Ethylbenzene	ND		50.0	43.9		ug/L		88	58 - 131	1	30
Ethyl methacrylate	ND		50.0	47.2		ug/L		94	64 - 130	10	30
Hexachlorobutadiene	ND		50.0	42.1		ug/L		84	31 - 149	5	36
2-Hexanone	ND		200	192		ug/L		96	65 - 140	17	30
Isopropylbenzene	ND		50.0	43.9		ug/L		88	56 - 133	1	30
Methylene bromide	ND		50.0	49.9		ug/L		100	63 - 138	8	30
Methylene Chloride	ND		50.0	46.7		ug/L		93	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	192		ug/L		96	63 - 146	15	30
Methyl tert-butyl ether	ND		50.0	47.6		ug/L		95	59 - 137	6	30
m-Xylene & p-Xylene	ND		50.0	43.6		ug/L		87	57 - 130	0	30
Naphthalene	ND		50.0	46.8		ug/L		94	25 - 160	10	30
n-Butylbenzene	ND		50.0	42.8		ug/L		86	41 - 142	4	31
N-Propylbenzene	ND		50.0	43.1		ug/L		86	51 - 138	0	30
o-Chlorotoluene	ND		50.0	44.1		ug/L		88	53 - 134	2	30
o-Xylene	ND		50.0	44.2		ug/L		88	61 - 130	2	30
p-Chlorotoluene	ND		50.0	43.8		ug/L		88	54 - 133	1	30

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

Lab Sample ID: 400-140347-B-1 MSD
Matrix: Water
Analysis Batch: 360800

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	43.5		ug/L		87	48 - 139	2	30
sec-Butylbenzene	ND		50.0	43.1		ug/L		86	50 - 138	2	30
Styrene	ND		50.0	45.0		ug/L		90	58 - 131	2	30
tert-Butylbenzene	ND		50.0	44.3		ug/L		89	54 - 146	0	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	66 - 135	13	30
Tetrachloroethene	ND		50.0	41.9		ug/L		84	52 - 133	1	30
Toluene	ND		50.0	44.2		ug/L		88	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	61 - 143	0	30
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	44.2		ug/L		88	43 - 145	5	30
1,2,4-Trichlorobenzene	ND		50.0	43.4		ug/L		87	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142	1	30
1,1,2-Trichloroethane	ND		50.0	48.0		ug/L		96	66 - 131	8	30
Trichloroethene	ND		50.0	45.5		ug/L		91	64 - 136	0	30
Trichlorofluoromethane	ND		50.0	47.8		ug/L		96	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	48.2		ug/L		96	65 - 133	13	30
1,2,4-Trimethylbenzene	ND		50.0	43.4		ug/L		87	50 - 139	1	30
1,3,5-Trimethylbenzene	ND		50.0	43.6		ug/L		87	52 - 135	1	30
Vinyl acetate	ND		100	114		ug/L		114	26 - 160	3	33
Vinyl chloride	ND		50.0	47.0		ug/L		94	46 - 152	4	30
Xylenes, Total	ND		100	87.9		ug/L		88	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
Acrolein	ND		20	10	ug/L			07/24/17 08:46	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 08:46	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 08:46	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 08:46	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 08:46	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 08:46	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 08:46	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 08:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 08:46	1

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

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 08:46	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 08:46	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 08:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 08:46	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 08:46	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 08:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 08:46	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 08:46	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 08:46	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 08:46	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 08:46	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 08:46	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 08:46	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 08:46	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 08:46	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 08:46	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 08:46	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 08:46	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 08:46	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 08:46	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 08:46	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 08:46	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 08:46	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 08:46	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 08:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 08:46	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 08:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 08:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 08:46	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1

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

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 08:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 08:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 08:46	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 08:46	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*07/24/17 08:46*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*07/24/17 08:46*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/24/17 08:46*	*1*

Lab Sample ID: LCS 400-361425/1002
Matrix: Water
Analysis Batch: 361425

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	154		ug/L		77	43 - 160
Acrolein	500	496		ug/L		99	38 - 160
Acrylonitrile	500	440		ug/L		88	64 - 142
Benzene	50.0	49.0		ug/L		98	70 - 130
Bromobenzene	50.0	53.6		ug/L		107	70 - 132
Bromochloromethane	50.0	56.3		ug/L		113	70 - 130
Bromodichloromethane	50.0	43.6		ug/L		87	67 - 133
Bromoform	50.0	42.6		ug/L		85	57 - 140
Bromomethane	50.0	66.7		ug/L		133	10 - 160
2-Butanone (MEK)	200	194		ug/L		97	61 - 145
Carbon disulfide	50.0	41.1		ug/L		82	61 - 137
Carbon tetrachloride	50.0	49.4		ug/L		99	61 - 137
Chlorobenzene	50.0	51.4		ug/L		103	70 - 130
Dibromochloromethane	50.0	46.5		ug/L		93	67 - 135
Chloroethane	50.0	49.8		ug/L		100	55 - 141
2-Chloroethyl vinyl ether	50.0	42.0		ug/L		84	10 - 160
Chloroform	50.0	48.0		ug/L		96	69 - 130
1-Chlorohexane	50.0	42.5		ug/L		85	69 - 130
Chloromethane	50.0	41.2		ug/L		82	58 - 137
cis-1,2-Dichloroethene	50.0	44.0		ug/L		88	68 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	69 - 132
1,2-Dichlorobenzene	50.0	52.5		ug/L		105	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	47.1		ug/L		94	41 - 146
1,1-Dichloroethane	50.0	45.2		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	43.8		ug/L		88	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	45.5		ug/L		91	70 - 130
1,3-Dichloropropane	50.0	46.7		ug/L		93	70 - 130

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

Lab Sample ID: LCS 400-361425/1002
Matrix: Water
Analysis Batch: 361425

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	43.6		ug/L		87	52 - 135
1,1-Dichloropropene	50.0	47.6		ug/L		95	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
Ethyl methacrylate	50.0	43.5		ug/L		87	68 - 130
Hexachlorobutadiene	50.0	47.9		ug/L		96	53 - 140
2-Hexanone	200	154		ug/L		77	65 - 137
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 130
Methylene bromide	50.0	50.4		ug/L		101	70 - 130
Methylene Chloride	50.0	47.9		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	159		ug/L		80	69 - 138
Methyl tert-butyl ether	50.0	45.8		ug/L		92	66 - 130
m-Xylene & p-Xylene	50.0	48.4		ug/L		97	70 - 130
Naphthalene	50.0	50.2		ug/L		100	47 - 149
n-Butylbenzene	50.0	47.8		ug/L		96	67 - 130
N-Propylbenzene	50.0	48.6		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	47.7		ug/L		95	70 - 130
p-Chlorotoluene	50.0	48.1		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	52.7		ug/L		105	65 - 130
sec-Butylbenzene	50.0	50.0		ug/L		100	66 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
tert-Butylbenzene	50.0	51.6		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.4		ug/L		99	67 - 131
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 131
Tetrachloroethene	50.0	51.3		ug/L		103	65 - 130
Toluene	50.0	49.0		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	42.5		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	51.1		ug/L		102	60 - 138
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	68 - 130
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	70 - 130
Trichloroethene	50.0	54.4		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	50.0		ug/L		100	65 - 138
1,2,3-Trichloropropane	50.0	49.9		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	69 - 130
Vinyl acetate	100	94.3		ug/L		94	26 - 160
Vinyl chloride	50.0	46.3		ug/L		93	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 400-140392-13 MS
Matrix: Water
Analysis Batch: 361425

Client Sample ID: P114R-ROX-071117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	138		ug/L		69	43 - 160
Acrolein	ND		500	482		ug/L		96	38 - 160
Acrylonitrile	ND		500	408		ug/L		82	62 - 149
Benzene	0.47	J	50.0	47.0		ug/L		93	56 - 142
Bromobenzene	ND		50.0	49.3		ug/L		99	59 - 136
Bromochloromethane	ND		50.0	52.5		ug/L		105	64 - 140
Bromodichloromethane	ND		50.0	40.7		ug/L		81	59 - 143
Bromoform	ND		50.0	40.2		ug/L		80	50 - 140
Bromomethane	ND		50.0	71.4		ug/L		143	10 - 160
2-Butanone (MEK)	ND		200	180		ug/L		90	55 - 150
Carbon disulfide	ND		50.0	38.7		ug/L		77	48 - 152
Carbon tetrachloride	ND		50.0	47.5		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	47.3		ug/L		95	64 - 130
Dibromochloromethane	ND		50.0	43.3		ug/L		87	56 - 143
Chloroethane	ND		50.0	46.8		ug/L		94	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	45.4		ug/L		91	60 - 141
1-Chlorohexane	ND		50.0	38.2		ug/L		76	56 - 136
Chloromethane	ND		50.0	38.9		ug/L		78	49 - 148
cis-1,2-Dichloroethene	ND		50.0	41.4		ug/L		83	59 - 143
cis-1,3-Dichloropropene	ND		50.0	41.6		ug/L		83	57 - 140
1,2-Dichlorobenzene	ND		50.0	48.3		ug/L		97	52 - 137
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	54 - 135
1,4-Dichlorobenzene	ND		50.0	48.6		ug/L		97	53 - 135
Dichlorodifluoromethane	ND		50.0	44.9		ug/L		90	16 - 160
1,1-Dichloroethane	ND		50.0	42.4		ug/L		85	61 - 144
1,2-Dichloroethane	ND		50.0	41.7		ug/L		83	60 - 141
1,1-Dichloroethene	ND		50.0	50.3		ug/L		101	54 - 147
1,2-Dichloropropane	ND		50.0	42.5		ug/L		85	66 - 137
1,3-Dichloropropane	ND		50.0	42.5		ug/L		85	66 - 133
2,2-Dichloropropane	ND		50.0	40.7		ug/L		81	42 - 144
1,1-Dichloropropene	ND		50.0	44.8		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	45.1		ug/L		90	58 - 131
Ethyl methacrylate	ND		50.0	40.6		ug/L		81	64 - 130
Hexachlorobutadiene	ND		50.0	45.2		ug/L		90	31 - 149
2-Hexanone	ND		200	142		ug/L		71	65 - 140
Isopropylbenzene	ND		50.0	46.6		ug/L		93	56 - 133
Methylene bromide	ND		50.0	47.1		ug/L		94	63 - 138
Methylene Chloride	ND		50.0	44.3		ug/L		89	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	149		ug/L		75	63 - 146
Methyl tert-butyl ether	0.82	J	50.0	42.7		ug/L		84	59 - 137
m-Xylene & p-Xylene	ND		50.0	44.5		ug/L		89	57 - 130
Naphthalene	ND		50.0	47.4		ug/L		95	25 - 160
n-Butylbenzene	ND		50.0	44.1		ug/L		88	41 - 142
N-Propylbenzene	ND		50.0	45.2		ug/L		90	51 - 138
o-Chlorotoluene	ND		50.0	45.1		ug/L		90	53 - 134
o-Xylene	ND		50.0	44.3		ug/L		89	61 - 130
p-Chlorotoluene	ND		50.0	44.2		ug/L		88	54 - 133

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

Lab Sample ID: 400-140392-13 MS
Matrix: Water
Analysis Batch: 361425

Client Sample ID: P114R-ROX-071117
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	48.1		ug/L		96	48 - 139
sec-Butylbenzene	ND		50.0	46.3		ug/L		93	50 - 138
Styrene	ND		50.0	46.3		ug/L		93	58 - 131
tert-Butylbenzene	ND		50.0	48.1		ug/L		96	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	46.4		ug/L		93	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	43.1		ug/L		86	66 - 135
Tetrachloroethene	ND		50.0	46.1		ug/L		92	52 - 133
Toluene	ND		50.0	45.5		ug/L		91	65 - 130
trans-1,2-Dichloroethene	ND		50.0	47.6		ug/L		95	61 - 143
trans-1,3-Dichloropropene	ND		50.0	38.4		ug/L		77	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.4		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	46.9		ug/L		94	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142
1,1,2-Trichloroethane	ND		50.0	42.5		ug/L		85	66 - 131
Trichloroethene	ND		50.0	51.5		ug/L		103	64 - 136
Trichlorofluoromethane	ND		50.0	50.4		ug/L		101	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.9		ug/L		96	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	46.3		ug/L		93	52 - 135
Vinyl acetate	ND		100	89.9		ug/L		90	26 - 160
Vinyl chloride	ND		50.0	45.0		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-140392-13 MSD
Matrix: Water
Analysis Batch: 361425

Client Sample ID: P114R-ROX-071117
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	140		ug/L		70	43 - 160	1	30
Acrolein	ND		500	485		ug/L		97	38 - 160	1	31
Acrylonitrile	ND		500	412		ug/L		82	62 - 149	1	30
Benzene	0.47	J	50.0	47.3		ug/L		94	56 - 142	1	30
Bromobenzene	ND		50.0	50.2		ug/L		100	59 - 136	2	30
Bromochloromethane	ND		50.0	53.1		ug/L		106	64 - 140	1	30
Bromodichloromethane	ND		50.0	41.0		ug/L		82	59 - 143	1	30
Bromoform	ND		50.0	40.2		ug/L		80	50 - 140	0	30
Bromomethane	ND		50.0	74.7		ug/L		149	10 - 160	5	50
2-Butanone (MEK)	ND		200	178		ug/L		89	55 - 150	1	30
Carbon disulfide	ND		50.0	39.6		ug/L		79	48 - 152	2	30
Carbon tetrachloride	ND		50.0	47.9		ug/L		96	55 - 145	1	30
Chlorobenzene	ND		50.0	48.4		ug/L		97	64 - 130	2	30
Dibromochloromethane	ND		50.0	43.1		ug/L		86	56 - 143	0	30
Chloroethane	ND		50.0	47.5		ug/L		95	50 - 151	1	30

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

Lab Sample ID: 400-140392-13 MSD
Matrix: Water
Analysis Batch: 361425

Client Sample ID: P114R-ROX-071117
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	45.8		ug/L		92	60 - 141	1	30
1-Chlorohexane	ND		50.0	39.1		ug/L		78	56 - 136	2	30
Chloromethane	ND		50.0	38.8		ug/L		78	49 - 148	0	31
cis-1,2-Dichloroethene	ND		50.0	42.4		ug/L		85	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	42.4		ug/L		85	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	49.3		ug/L		99	52 - 137	2	30
1,3-Dichlorobenzene	ND		50.0	50.2		ug/L		100	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	50.2		ug/L		100	53 - 135	3	30
Dichlorodifluoromethane	ND		50.0	45.7		ug/L		91	16 - 160	2	31
1,1-Dichloroethane	ND		50.0	43.1		ug/L		86	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	41.7		ug/L		83	60 - 141	0	30
1,1-Dichloroethene	ND		50.0	51.0		ug/L		102	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	43.0		ug/L		86	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	43.3		ug/L		87	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	41.0		ug/L		82	42 - 144	1	31
1,1-Dichloropropene	ND		50.0	45.1		ug/L		90	65 - 136	1	30
Ethylbenzene	ND		50.0	46.0		ug/L		92	58 - 131	2	30
Ethyl methacrylate	ND		50.0	40.9		ug/L		82	64 - 130	1	30
Hexachlorobutadiene	ND		50.0	45.6		ug/L		91	31 - 149	1	36
2-Hexanone	ND		200	140		ug/L		70	65 - 140	1	30
Isopropylbenzene	ND		50.0	48.3		ug/L		97	56 - 133	4	30
Methylene bromide	ND		50.0	46.6		ug/L		93	63 - 138	1	30
Methylene Chloride	ND		50.0	46.2		ug/L		92	60 - 146	4	32
4-Methyl-2-pentanone (MIBK)	ND		200	151		ug/L		76	63 - 146	1	30
Methyl tert-butyl ether	0.82	J	50.0	43.8		ug/L		86	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	45.7		ug/L		91	57 - 130	3	30
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160	2	30
n-Butylbenzene	ND		50.0	45.7		ug/L		91	41 - 142	4	31
N-Propylbenzene	ND		50.0	46.2		ug/L		92	51 - 138	2	30
o-Chlorotoluene	ND		50.0	46.2		ug/L		92	53 - 134	2	30
o-Xylene	ND		50.0	45.2		ug/L		90	61 - 130	2	30
p-Chlorotoluene	ND		50.0	44.9		ug/L		90	54 - 133	2	30
p-Isopropyltoluene	ND		50.0	49.7		ug/L		99	48 - 139	3	30
sec-Butylbenzene	ND		50.0	47.9		ug/L		96	50 - 138	3	30
Styrene	ND		50.0	47.4		ug/L		95	58 - 131	2	30
tert-Butylbenzene	ND		50.0	49.4		ug/L		99	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.8		ug/L		94	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.0		ug/L		86	66 - 135	0	30
Tetrachloroethene	ND		50.0	46.1		ug/L		92	52 - 133	0	30
Toluene	ND		50.0	46.1		ug/L		92	65 - 130	1	30
trans-1,2-Dichloroethene	ND		50.0	48.6		ug/L		97	61 - 143	2	30
trans-1,3-Dichloropropene	ND		50.0	39.3		ug/L		79	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	48.4		ug/L		97	43 - 145	2	30
1,2,4-Trichlorobenzene	ND		50.0	48.4		ug/L		97	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.1		ug/L		92	57 - 142	0	30
1,1,2-Trichloroethane	ND		50.0	42.7		ug/L		85	66 - 131	0	30
Trichloroethene	ND		50.0	52.3		ug/L		105	64 - 136	1	30

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

Lab Sample ID: 400-140392-13 MSD
Matrix: Water
Analysis Batch: 361425

Client Sample ID: P114R-ROX-071117
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	51.0		ug/L		102	54 - 156	1	30
1,2,3-Trichloropropane	ND		50.0	47.7		ug/L		95	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	47.5		ug/L		95	50 - 139	2	30
1,3,5-Trimethylbenzene	ND		50.0	47.3		ug/L		95	52 - 135	2	30
Vinyl acetate	ND		100	90.5		ug/L		90	26 - 160	1	33
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152	0	30
Xylenes, Total	ND		100	90.9		ug/L		91	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-360266/1-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/13/17 06:59	07/19/17 16:24	1
Benzenethiol	ND		10	1.7	ug/L		07/13/17 06:59	07/19/17 16:24	1
Benzoic acid	ND		30	7.3	ug/L		07/13/17 06:59	07/19/17 16:24	1
Benzyl alcohol	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/13/17 06:59	07/19/17 16:24	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/13/17 06:59	07/19/17 16:24	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/13/17 06:59	07/19/17 16:24	1
Bis(2-ethylhexyl) phthalate	7.14	J	10	2.3	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/13/17 06:59	07/19/17 16:24	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Chloroaniline	ND		10	3.4	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/13/17 06:59	07/19/17 16:24	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 16:24	1
2-Chlorophenol	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Dibenzofuran	ND		10	0.52	ug/L		07/13/17 06:59	07/19/17 16:24	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Diethyl phthalate	ND		10	0.70	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:24	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/13/17 06:59	07/19/17 16:24	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/13/17 06:59	07/19/17 16:24	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/13/17 06:59	07/19/17 16:24	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/13/17 06:59	07/19/17 16:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-360266/1-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/13/17 06:59	07/19/17 16:24	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/13/17 06:59	07/19/17 16:24	1
Hexachloroethane	ND		10	4.2	ug/L		07/13/17 06:59	07/19/17 16:24	1
Indene	ND		10	1.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
Isophorone	ND		10	0.57	ug/L		07/13/17 06:59	07/19/17 16:24	1
2-Methylphenol	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 16:24	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
2-Nitroaniline	ND		10	2.2	ug/L		07/13/17 06:59	07/19/17 16:24	1
3-Nitroaniline	ND		10	1.8	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Nitroaniline	ND		10	2.5	ug/L		07/13/17 06:59	07/19/17 16:24	1
Nitrobenzene	ND		10	0.55	ug/L		07/13/17 06:59	07/19/17 16:24	1
2-Nitrophenol	ND		10	0.65	ug/L		07/13/17 06:59	07/19/17 16:24	1
4-Nitrophenol	ND		10	2.1	ug/L		07/13/17 06:59	07/19/17 16:24	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:24	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/13/17 06:59	07/19/17 16:24	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/13/17 06:59	07/19/17 16:24	1
Pentachlorophenol	ND		20	1.8	ug/L		07/13/17 06:59	07/19/17 16:24	1
Phenol	ND		10	2.6	ug/L		07/13/17 06:59	07/19/17 16:24	1
Pyridine	ND		10	3.2	ug/L		07/13/17 06:59	07/19/17 16:24	1
Quinoline	ND		10	6.0	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/13/17 06:59	07/19/17 16:24	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/13/17 06:59	07/19/17 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
2-Fluorophenol	*60*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Phenol-d5	*61*		*10 - 120*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
Terphenyl-d14	*75*		*53 - 125*	*07/13/17 06:59*	*07/19/17 16:24*	*1*
2,4,6-Tribromophenol	*63*		*15 - 135*	*07/13/17 06:59*	*07/19/17 16:24*	*1*

Lab Sample ID: LCS 400-360266/2-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	19.5		ug/L		65	29 - 120
Benzoic acid	125	119		ug/L		95	10 - 150
Benzyl alcohol	30.0	25.0		ug/L		83	19 - 125
Bis(2-chloroethoxy)methane	30.0	22.8		ug/L		76	45 - 120
Bis(2-chloroethyl)ether	30.0	22.8		ug/L		76	48 - 120
bis (2-chloroisopropyl) ether	30.0	19.7		ug/L		66	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	23.9		ug/L		80	48 - 150
4-Bromophenyl phenyl ether	30.0	23.1		ug/L		77	55 - 122
Butyl benzyl phthalate	30.0	23.4		ug/L		78	46 - 145

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360266/2-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	22.8		ug/L		76	30 - 120
4-Chloro-3-methylphenol	30.0	26.6		ug/L		89	39 - 140
2-Chloronaphthalene	30.0	25.1		ug/L		84	52 - 120
2-Chlorophenol	30.0	22.7		ug/L		76	34 - 120
4-Chlorophenyl phenyl ether	30.0	25.5		ug/L		85	58 - 124
Dibenz[a,h]acridine	30.0	31.1		ug/L		104	46 - 149
Dibenzofuran	30.0	25.8		ug/L		86	58 - 123
3,3'-Dichlorobenzidine	40.0	43.2		ug/L		108	39 - 135
2,4-Dichlorophenol	30.0	26.0		ug/L		87	39 - 128
Diethyl phthalate	30.0	28.8		ug/L		96	44 - 146
2,4-Dimethylphenol	30.0	24.3		ug/L		81	44 - 120
Dimethyl phthalate	30.0	24.3		ug/L		81	50 - 131
Di-n-butyl phthalate	30.0	25.9		ug/L		86	55 - 131
4,6-Dinitro-ortho-cresol	60.0	11.9		ug/L		20	10 - 150
2,4-Dinitrophenol	60.0	71.4		ug/L		119	10 - 150
2,4-Dinitrotoluene	30.0	29.3		ug/L		98	58 - 140
2,6-Dinitrotoluene	30.0	25.5		ug/L		85	57 - 130
Di-n-octyl phthalate	30.0	25.5		ug/L		85	50 - 150
1,4-Dioxane	30.0	14.8		ug/L		49	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	21.8		ug/L		73	47 - 123
Hexachlorobenzene	30.0	24.0		ug/L		80	52 - 131
Hexachlorocyclopentadiene	30.0	22.1		ug/L		74	10 - 129
Hexachloroethane	30.0	21.4		ug/L		71	41 - 120
Indene	30.0	30.7		ug/L		102	47 - 120
Isophorone	30.0	22.4		ug/L		75	49 - 120
2-Methylphenol	30.0	23.2		ug/L		77	39 - 123
3 & 4 Methylphenol	30.0	23.0		ug/L		77	38 - 121
2-Nitroaniline	30.0	30.1		ug/L		100	47 - 150
3-Nitroaniline	30.0	28.7		ug/L		96	34 - 132
4-Nitroaniline	30.0	32.7		ug/L		109	41 - 135
Nitrobenzene	30.0	22.4		ug/L		75	47 - 120
2-Nitrophenol	30.0	24.8		ug/L		83	28 - 136
4-Nitrophenol	60.0	59.3		ug/L		99	10 - 150
N-Nitrosodimethylamine	30.0	22.6		ug/L		75	22 - 148
N-Nitrosodi-n-propylamine	30.0	20.9		ug/L		70	44 - 120
N-Nitrosodiphenylamine	29.8	24.6		ug/L		83	56 - 120
Pentachlorophenol	60.0	52.6		ug/L		88	15 - 141
Phenol	30.0	22.1		ug/L		74	33 - 120
Pyridine	30.0	15.8		ug/L		53	26 - 120
Quinoline	30.0	25.9		ug/L		86	51 - 129
2,4,5-Trichlorophenol	30.0	26.9		ug/L		90	38 - 147
2,4,6-Trichlorophenol	30.0	26.1		ug/L		87	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*34 - 120*
2-Fluorophenol	*63*		*10 - 120*
Nitrobenzene-d5	*70*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360266/2-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360266

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5	*69*		*10 - 120*
Terphenyl-d14	*72*		*53 - 125*
2,4,6-Tribromophenol	*91*		*15 - 135*

Lab Sample ID: LCSD 400-360266/3-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	9.79	J *	ug/L		33	29 - 120	67	30
Benzoic acid	125	81.5	*	ug/L		65	10 - 150	37	30
Benzyl alcohol	30.0	25.0		ug/L		83	19 - 125	0	30
Bis(2-chloroethoxy)methane	30.0	23.8		ug/L		79	45 - 120	4	30
Bis(2-chloroethyl)ether	30.0	23.1		ug/L		77	48 - 120	1	30
bis (2-chloroisopropyl) ether	30.0	21.0		ug/L		70	30 - 125	6	30
Bis(2-ethylhexyl) phthalate	30.0	26.9		ug/L		90	48 - 150	12	30
4-Bromophenyl phenyl ether	30.0	25.3		ug/L		84	55 - 122	9	30
Butyl benzyl phthalate	30.0	24.7		ug/L		82	46 - 145	6	30
4-Chloroaniline	30.0	18.5		ug/L		62	30 - 120	21	30
4-Chloro-3-methylphenol	30.0	27.5		ug/L		92	39 - 140	3	30
2-Chloronaphthalene	30.0	26.7		ug/L		89	52 - 120	6	30
2-Chlorophenol	30.0	24.5		ug/L		82	34 - 120	8	30
4-Chlorophenyl phenyl ether	30.0	27.3		ug/L		91	58 - 124	7	30
Dibenz[a,h]acridine	30.0	31.4		ug/L		105	46 - 149	1	30
Dibenzofuran	30.0	27.9		ug/L		93	58 - 123	8	30
3,3'-Dichlorobenzidine	40.0	44.7		ug/L		112	39 - 135	3	30
2,4-Dichlorophenol	30.0	26.8		ug/L		89	39 - 128	3	30
Diethyl phthalate	30.0	30.7		ug/L		102	44 - 146	7	30
2,4-Dimethylphenol	30.0	24.9		ug/L		83	44 - 120	3	30
Dimethyl phthalate	30.0	25.9		ug/L		86	50 - 131	6	30
Di-n-butyl phthalate	30.0	28.7		ug/L		96	55 - 131	10	30
4,6-Dinitro-ortho-cresol	60.0	60.3	*	ug/L		101	10 - 150	134	30
2,4-Dinitrophenol	60.0	77.0		ug/L		128	10 - 150	8	30
2,4-Dinitrotoluene	30.0	31.5		ug/L		105	58 - 140	7	30
2,6-Dinitrotoluene	30.0	27.4		ug/L		91	57 - 130	7	30
Di-n-octyl phthalate	30.0	27.4		ug/L		91	50 - 150	7	30
1,4-Dioxane	30.0	12.8		ug/L		43	25 - 120	15	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.5		ug/L		78	47 - 123	8	30
Hexachlorobenzene	30.0	26.4		ug/L		88	52 - 131	9	30
Hexachlorocyclopentadiene	30.0	25.1		ug/L		84	10 - 129	13	30
Hexachloroethane	30.0	22.7		ug/L		76	41 - 120	6	30
Indene	30.0	22.8		ug/L		76	47 - 120	29	30
Isophorone	30.0	23.4		ug/L		78	49 - 120	5	30
2-Methylphenol	30.0	23.9		ug/L		80	39 - 123	3	30
3 & 4 Methylphenol	30.0	23.6		ug/L		79	38 - 121	3	30
2-Nitroaniline	30.0	31.3		ug/L		104	47 - 150	4	30
3-Nitroaniline	30.0	28.2		ug/L		94	34 - 132	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360266/3-A
Matrix: Water
Analysis Batch: 361032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitroaniline	30.0	33.0		ug/L		110	41 - 135	1	30
Nitrobenzene	30.0	23.6		ug/L		79	47 - 120	5	30
2-Nitrophenol	30.0	26.5		ug/L		88	28 - 136	7	30
4-Nitrophenol	60.0	59.2		ug/L		99	10 - 150	0	30
N-Nitrosodimethylamine	30.0	21.6		ug/L		72	22 - 148	5	30
N-Nitrosodi-n-propylamine	30.0	21.8		ug/L		73	44 - 120	4	30
N-Nitrosodiphenylamine	29.8	26.7		ug/L		90	56 - 120	8	30
Pentachlorophenol	60.0	57.3		ug/L		96	15 - 141	9	30
Phenol	30.0	21.6		ug/L		72	33 - 120	2	30
Pyridine	30.0	6.64	J *	ug/L		22	26 - 120	82	30
Quinoline	30.0	14.7	*	ug/L		49	51 - 129	55	30
2,4,5-Trichlorophenol	30.0	28.3		ug/L		94	38 - 147	5	30
2,4,6-Trichlorophenol	30.0	27.4		ug/L		91	36 - 139	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*106*		*34 - 120*
2-Fluorophenol	*89*		*10 - 120*
Nitrobenzene-d5	*94*		*27 - 120*
Phenol-d5	*86*		*10 - 120*
Terphenyl-d14	*96*		*53 - 125*
2,4,6-Tribromophenol	*125*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-360266/1-A
Matrix: Water
Analysis Batch: 360544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
Anthracene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Chrysene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Fluoranthene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
Fluorene	ND		0.20	0.021	ug/L		07/13/17 06:59	07/14/17 17:03	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/13/17 06:59	07/14/17 17:03	1
Phenanthrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
Pyrene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/13/17 06:59	07/14/17 17:03	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-360266/1-A
Matrix: Water
Analysis Batch: 360544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360266

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	129		33 - 138	07/13/17 06:59	07/14/17 17:03	1
2-Fluorobiphenyl	82		15 - 122	07/13/17 06:59	07/14/17 17:03	1
Nitrobenzene-d5	68		19 - 130	07/13/17 06:59	07/14/17 17:03	1

Lab Sample ID: LCS 400-360266/2-A
Matrix: Water
Analysis Batch: 360544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	25.4		ug/L		85	41 - 120
Acenaphthylene	30.0	26.2		ug/L		87	44 - 120
Anthracene	30.0	25.9		ug/L		86	49 - 120
Benzo[a]anthracene	30.0	26.4		ug/L		88	61 - 135
Benzo[a]pyrene	30.0	24.1		ug/L		80	52 - 120
Benzo[b]fluoranthene	30.0	26.0		ug/L		87	53 - 134
Benzo[g,h,i]perylene	30.0	17.7		ug/L		59	47 - 133
Benzo[k]fluoranthene	30.0	23.7		ug/L		79	57 - 134
Chrysene	30.0	26.4		ug/L		88	55 - 122
Dibenz(a,h)anthracene	30.0	19.2		ug/L		64	48 - 146
Fluoranthene	30.0	26.8		ug/L		89	54 - 128
Fluorene	30.0	25.6		ug/L		85	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	18.9		ug/L		63	43 - 142
Phenanthrene	30.0	26.5		ug/L		88	48 - 120
Pyrene	30.0	23.5		ug/L		78	48 - 132
1-Methylnaphthalene	30.0	29.6		ug/L		99	41 - 120
2-Methylnaphthalene	30.0	29.4		ug/L		98	32 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	78		33 - 138
2-Fluorobiphenyl	79		15 - 122
Nitrobenzene-d5	71		19 - 130

Lab Sample ID: LCSD 400-360266/3-A
Matrix: Water
Analysis Batch: 360544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	27.6		ug/L		92	41 - 120	8	56
Acenaphthylene	30.0	28.1		ug/L		94	44 - 120	7	56
Anthracene	30.0	29.6		ug/L		99	49 - 120	13	51
Benzo[a]anthracene	30.0	29.6		ug/L		99	61 - 135	11	49
Benzo[a]pyrene	30.0	27.0		ug/L		90	52 - 120	11	50
Benzo[b]fluoranthene	30.0	28.4		ug/L		95	53 - 134	9	54
Benzo[g,h,i]perylene	30.0	18.4		ug/L		61	47 - 133	4	50
Benzo[k]fluoranthene	30.0	27.1		ug/L		90	57 - 134	13	52
Chrysene	30.0	29.3		ug/L		98	55 - 122	10	50
Dibenz(a,h)anthracene	30.0	20.6	E	ug/L		69	48 - 146	7	50
Fluoranthene	30.0	29.7		ug/L		99	54 - 128	10	52

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-360266/3-A
Matrix: Water
Analysis Batch: 360544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	30.0	28.1		ug/L		94	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	30.0	19.9		ug/L		66	43 - 142	5	51
Phenanthrene	30.0	29.6		ug/L		99	48 - 120	11	56
Pyrene	30.0	27.5		ug/L		92	48 - 132	16	52
1-Methylnaphthalene	30.0	32.1		ug/L		107	41 - 120	8	55
2-Methylnaphthalene	30.0	31.8		ug/L		106	32 - 124	8	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*126*		*33 - 138*
2-Fluorobiphenyl	*101*		*15 - 122*
Nitrobenzene-d5	*98*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-360823/1-A
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360823

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		07/18/17 09:09	07/21/17 13:46	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:09	07/21/17 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*51 - 149*	*07/18/17 09:09*	*07/21/17 13:46*	*1*

Lab Sample ID: LCS 400-360823/2-A
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0809		ug/L		81	60 - 140
1,2-Dibromoethane	0.100	0.0995		ug/L		99	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-360823/3-A
Matrix: Water
Analysis Batch: 361274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0944		ug/L		94	60 - 140	15	30
1,2-Dibromoethane	0.100	0.111		ug/L		111	60 - 140	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*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	☐ CHECK IF NO INCIDENT # APPLIES
Bob Billman	25278	DATE: 07/11/17
PO #	GSAP Project ID	PAGE: 1 of 2
60527968 - 1.03.003 / 1.03.0033	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 60527968 - 1.03.003 / 1.03.0033

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. Roberts, J. Clark, J. Peters, M. Karrick

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; melissa.remiger@aecom.com

TURNAROUND TIME (BUSINESS DAYS)

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

☐ IA - 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 DASA

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW6D-ROX-071117	7-11-17	0850	Water	4			2		6	X	X	X	X	Cooler #3
	MW6D-ROX-071117-DUP	7-11-17	0850	Water	4			2		6	X	X	X	X	Cooler #2
	MW6C-ROX-071117	7-11-17	0945	Water	4			2		6	X	X	X	X	Cooler #1
	MW6B-ROX-071117	7-11-17	1030	Water	4			2		6	X	X	X	X	Cooler #4
	MW6A-ROX-071117	7-11-17	1115	Water	4			2		6	X	X	X	X	Cooler #3
	ROST3MW-ROX-071117	7-11-17	1320	Water	4			2		6	X	X	X	X	Cooler #2
	MW1-ROX-071117	7-11-17	1410	Water	4			2		6	X	X	X	X	Cooler #2
	MW10-ROX-071117	7-11-17	1500	Water	4			2		6	X	X	X	X	Cooler #2
	TB-ROX-071117-8260-A	7-11-17	0000	Water	2					2			X		Cooler #1
	TB-ROX-071117-8011-A	7-11-17	0000	Water	2					2	X				Cooler #1

400-140392 COC

TEMPERATURE ON RECEIPT: 2.8, 1.6, 2.8, 2.2

Relinquished by (Signature)	Received by (Signature)	Date	Time
Julian Roberts	Fedex	07/11/17	1700
		7-12-17	08:20

Version 14Dec15

*ALL VOAs in cooler #1.

7/26/2017

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 # 1364583 (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
Bob Billman	25278
PO #	**GSAP Project ID**
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 07/11/17
PAGE: 2 of 2

SAMPLING COMPANY: AECOM
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033
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.Roberts, J.Peters, M.Karrick, J.Clark, M.Karrick
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; melissa.reniger@aecom.com

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

☐ LA_EWQOB 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 DASA

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW7-ROX-071117	07/11	0850	Water	4			2		6	X	X	X	X	cooler #1
	MW7-ROX-071117-DUP	07/11	0850	Water	4			2		6	X	X	X	X	cooler #3
	P114R-ROX-071117	07/11	1135	Water	4			2		6	X	X	X	X	cooler #3
	P93D-ROX-071117	07/11	1340	Water	4			2		6	X	X	X	X	cooler #4
	P93B-ROX-071117	07/11	1430	Water	4			2		6	X	X	X	X	cooler #4
	P93B-ROX-071117-DUP	07/11	1430	Water	4			2		6	X	X	X	X	cooler #4
	TB-ROX-071117-8260	07/11	0000	Water	2					2			X		cooler #1
	TB-ROX-071117-8011	07/11	0000	Water	2					2	X				cooler #1

FIELD NOTES:
TEMPERATURE ON RECEIPT: IR-Te 28, 2.8, 2.2

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	Fedex	071117	1700
Relinquished by (Signature)	Received by (Signature)	Date: 7-12-17	Time: 0820
Relinquished by (Signature)	Received by (Signature)	Date	Time

Version: 14Dec15

*ALL VOAs in Cooler #1

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140392-1

Login Number: 140392
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.	True	
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	
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.	True	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140392-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140528-1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/25/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
P66-ROX-071217	P93C-ROX-071217
P74-ROX-071217	P56-ROX-071217-EB
P56-ROX-071217	TB-ROX-071217-8260
TB-ROX-071217-8011	MW9-ROX-071217
MW5-ROX-071217-EB	MW5-ROX-071217
MW3-ROX-071217	MW2-ROX-071217
MW28-ROX-071217	ROST4PZC-ROX-071217
MW22-ROX-071217	MW22-ROX-071217-Dup
TB-ROX-071217-8260-A	TB-ROX-071217-8011-A

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 1-methylnaphthalene was re-analyzed outside of the extraction holding time in sample P66-ROX-071217. Analytes were detected in equipment blank MW5-ROX-071217-EB. Several LCS/LCSD recoveries and LCS/LCSD RPDs were outside evaluation criteria. Several PAH and SVOC surrogate recoveries were outside criteria in several samples. The VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample P93C-ROX-071217. The SVOC internal standard area recoveries for chrysene-d_{12} and perylene-d_{12} were outside criteria in sample MW22-ROX-071217-Dup. PAHs in several samples and VOCs in field duplicate pair MW22-ROX-071217/MW22-ROX-071217-Dup were minimally diluted to bring the concentration of target anaylyes within instrument calibration range. The continuing calibration verification for 4-nitrophenol, hexachlorocyclopentadiene, and dibenz[a,h]acridine was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for 2,4,6-tribromophenol, 4,6-dinito-ortho-cresol, dibenz[a,h]acridine, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification.

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 not requested; no qualification of data was required. Although not indicated in the sample receipt form, the date portion of sample IDs TB-ROX-071217-8260/8011 were reported incorrectly by the laboratory; sample IDs were correctly reported by AECOM. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, 1-methylnaphthalene was re-analyzed 13 days outside of the holding time criteria (7 days) due to the original result exceeding instrument calibration in the initial analysis. 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
P66-ROX-071217 Run#2	PAHs	1-Methylnaphthalene	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
MW5-ROX-071217-EB	VOCs	Acetone	31 µg/L
MW5-ROX-071217-EB	PAHs	Benzo[a]anthracene	0.14 µg/L
MW5-ROX-071217-EB	PAHs	Chrysene	0.26 µg/L
MW5-ROX-071217-EB	PAHs	Fluoranthene	0.090 µg/L
MW5-ROX-071217-EB	PAHs	Pyrene	0.22 µg/L

Please see section 12.0 of this review for additional qualifications regarding samples associated with equipment blank MW5-ROX-071217-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 400-360696/2-A/3-A	SVOCs	Phenol	54/80	**38**	33-120/30
LCS/LCSD 400-360696/4-A/5-A	SVOCs	Benzenethiol	**4/2**	**48**	10-120/30
LCS/LCSD 400-360825/2-A/3-A	VOCs by 8011	1,2-Dibromo-3-chloropropane	**148/180**	19	60-140/30

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Analytical data associated with RPD alone outside evaluation criteria did not require qualification. Professional judgment was used to qualify, however not reject,

data associated with benzenethiol in LCS/LCSD 400-360696/4-A/5-A; benzenethiol has been identified as a poor performing analyte under Method 8270.

Sample ID	Parameter	Analyte	Qualification
P66-ROX-071217	SVOCs	Benzenethiol	**UJ**
P93C-ROX-071217	SVOCs	Benzenethiol	**UJ**
P74-ROX-071217	SVOCs	Benzenethiol	**UJ**
P56-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW9-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW5-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW3-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW2-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW28-ROX-071217	SVOCs	Benzenethiol	**UJ**
ROST4PZC-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW22-ROX-071217	SVOCs	Benzenethiol	**UJ**
MW22-ROX-071217-Dup	SVOCs	Benzenethiol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P66-ROX-071217 Run#1	PAHs	Terphenyl-d_{14}	**150**	33-138
P66-ROX-071217 Run#2	PAHs	Terphenyl-d_{14}	**31**	33-138
P56-ROX-071217	SVOCs	2,4,6-Tribromophenol	**152**	15-135
MW3-ROX-071217	PAHs	2-Fluorobiphenyl	**129**	15-122
MW3-ROX-071217	SVOCs	2,4,6-Tribromophenol	**142**	15-135
MW28-ROX-071217	PAHs	2-Fluorobiphenyl	**158**	15-122
MW28-ROX-071217	SVOCs	Terphenyl-d_{14}	**145**	53-125
MW28-ROX-071217	SVOCs	2,4,6-Tribromophenol	**166**	15-135
ROST4PZC-ROX-071217	SVOCs	2-Fluorophenol	**5**	10-120
ROST4PZC-ROX-071217	SVOCs	2,4,6-Tribromophenol	**14**	15-135
MW22-ROX-071217	SVOCs	Terphenyl-d_{14}	**43**	53-125

Analytical data that required qualification based on surrogate recovery outside evaluation criteria are included in the table below. Qualifications due to surrogate recoveries were not required if only one of three base/neutral or acid fraction surrogate recoveries were outside evaluation criteria in the associated PAH or SVOC samples. Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
ROST4PZC-ROX-071217	SVOCs	Benzoic acid	**UJ**
ROST4PZC-ROX-071217	SVOCs	Benzyl alcohol	**UJ**
ROST4PZC-ROX-071217	SVOCs	4-Chloro-3-methylphenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2-Chlorophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2,4-Dichlorophenol	**UJ**

Sample ID	Parameter	Analyte	Qualification
ROST4PZC-ROX-071217	SVOCs	2,4-Dimethylphenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2,4-Dinitrophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2-Methylphenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	3&4-Methylphenol	**J**
ROST4PZC-ROX-071217	SVOCs	2-Nitrophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	4-Nitrophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	Pentachlorophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	Phenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2,4,5-Trichlorophenol	**UJ**
ROST4PZC-ROX-071217	SVOCs	2,4,6-Trichlorophenol	**UJ**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, although not requested, sample P93C-ROX-071217 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
P93C-ROX-071217	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

Analytical data that required qualification based on MS/MSD data are included in the table below.

Sample ID	Parameter	Analyte	Qualification
P93C-ROX-071217	VOCs	2-Chloroethyl vinyl ether	**UJ**

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-071217-DUP	SVOCs	Chrysene-d_{12}	**467565**	502500-2010000
MW22-ROX-071217-DUP	SVOCs	Perylene-d_{12}	**275720**	394457-1577828

Qualifications to SVOC data associated with internal standards outside evaluation criteria are summarized in the table below.

Sample ID	Parameter	Analyte	Qualification
MW22-ROX-071217-DUP	SVOCs	Bis(2-ethylhexyl) phthalate	**UJ**
MW22-ROX-071217-DUP	SVOCs	Butyl benzyl phthalate	**UJ**
MW22-ROX-071217-DUP	SVOCs	Dibenz[a,h]acridine	**UJ**
MW22-ROX-071217-DUP	SVOCs	3,3'-Dichlorobenzidine	**UJ**

Sample ID	Parameter	Analyte	Qualification
MW22-ROX-071217-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-071217	MW22-ROX-071217-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

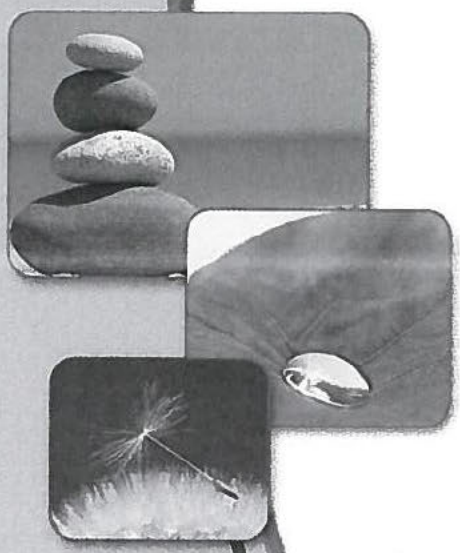
Were additional qualifications applied?

Yes, the continuing calibration verification for 4-nitrophenol, hexachlorocyclopentadiene, and dibenz[a,h]acridine was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P66-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
P66-ROX-071217	SVOCs	4-Nitrophenol	-	UJ
P93C-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
P93C-ROX-071217	SVOCs	4-Nitrophenol	-	UJ
P74-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
P74-ROX-071217	SVOCs	4-Nitrophenol	-	UJ
MW3-ROX-071217	SVOCs	Dibenz[a,h]acridine	-	UJ
MW3-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
MW2-ROX-071217	SVOCs	Dibenz[a,h]acridine	-	UJ
MW2-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
MW28-ROX-071217	SVOCs	Dibenz[a,h]acridine	-	UJ
MW28-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
ROST4PZC-ROX-071217	SVOCs	Dibenz[a,h]acridine	-	UJ
ROST4PZC-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
MW22-ROX-071217	SVOCs	Dibenz[a,h]acridine	-	UJ
MW22-ROX-071217	SVOCs	Hexachlorocyclopentadiene	-	UJ
MW22-ROX-071217-Dup	SVOCs	Hexachlorocyclopentadiene	-	UJ

Additionally, professional judgment was also used to qualify as estimated, however not reject, data that was associated with equipment blank MW5-ROX-071217-EB.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P66-ROX-071217	PAHs	Pyrene	-	J



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 400-140528-1
Client Project/Site: ROXANA QUARTERLY

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:
8/8/2017 4:17:42 PM

Carolyn Hooper, Project Manager I
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Reviewed 8/25/17 MR

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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Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Detection Summary 6
Client Sample Results 11
Definitions 73
Surrogate Summary 74
Method Summary 77
Chronicle 78
QC Association 86
QC Sample Results 90
Chain of Custody 112
Receipt Checklists 115
Certification Summary 116

Job ID: 400-140528-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140528-1

Receipt
The samples were received on 7/13/2017 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.2°C, 0.9°C, 1.4°C and 3.1°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: P66-ROX-071217 (400-140528-1), P93C-ROX-071217 (400-140528-2), P56-ROX-071217-EB (400-140528-4), P56-ROX-071217 (400-140528-5), TB-ROX-071217-8260 (400-140528-6), MW9-ROX-071217 (400-140528-8), MW5-ROX-071217 (400-140528-10), MW3-ROX-071217 (400-140528-11), MW2-ROX-071217 (400-140528-12), MW28-ROX-071217 (400-140528-13), ROST4PZC-ROX-071217 (400-140528-14), MW22-ROX-071217 (400-140528-15), MW22-ROX-071217-DUP (400-140528-16) and TB-ROX-07172017-8260-A (400-140528-17). 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 following sample MW5-ROX-071217-EB (400-140528-9) contained Acetone above the reporting limit. Reanalysis was performed with concurring results.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batches 400-361425 and 400-360958 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 batches 400-361425 and 400-360958 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: P74-ROX-071217 (400-140528-3) and MW5-ROX-071217-EB (400-140528-9). 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) associated with batch 400-361035 recovered outside acceptance criteria, low biased, for 4-Nitrophenol and Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the targets analyte were 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 400-360696 and analytical batch 400-361035 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: P56-ROX-071217 (400-140528-5). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-361125 recovered above the upper control limit for 2,4,6-Tribromophenol and 4,6-Dinitro-ortho-cresol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW3-ROX-071217 (400-140528-11), MW2-ROX-071217 (400-140528-12), MW28-ROX-071217 (400-140528-13), ROST4PZC-ROX-071217 (400-140528-14), MW22-ROX-071217 (400-140528-15) and MW22-ROX-071217-DUP (400-140528-16).

The continuing calibration verification (CCV) associated with batch 400-361125 recovered outside acceptance criteria, low biased, for

Job ID: 400-140528-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Dibenz[a,h]acridine and Hexachlorocyclopentadiene. 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.

Surrogate recovery for the following samples were outside control limits: MW3-ROX-071217 (400-140528-11), MW28-ROX-071217 (400-140528-13), ROST4PZC-ROX-071217 (400-140528-14) and MW22-ROX-071217 (400-140528-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Re-analysis at dilution to mitigate this interference would serve only to raise the reporting limit (RL). Since no target analytes associated with the internal standard were detected, the data have been reported and qualified accordingly.

The continuing calibration verification (CCV) associated with batch 400-361330 recovered above the upper control limit for Dibenz[a,h]acridine. The sample associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample are impacted: MW5-ROX-071217 (400-140528-10).

Method 8270D LL:
The following samples were diluted due to the nature of the sample matrix: P56-ROX-071217 (400-140528-5), MW2-ROX-071217 (400-140528-12), MW22-ROX-071217 (400-140528-15) and MW22-ROX-071217-DUP (400-140528-16). Elevated reporting limits (RLs) are provided.

Surrogate recovery for the following samples were outside the upper control limit: MW3-ROX-071217 (400-140528-11) and MW28-ROX-071217 (400-140528-13). These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside control limits: P66-ROX-071217 (400-140528-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The following sample was diluted to bring the concentration of target analytes within the calibration range: P66-ROX-071217 (400-140528-1). Elevated reporting limits (RLs) are provided.

The following sample was re-prepared outside of preparation holding time due to insufficient extract available to complete dilution: P66-ROX-071217 (400-140528-1). Both sets of data have been reported.

Internal standard responses were outside of acceptance limits for the following sample: P66-ROX-071217 (400-140528-1). The sample shows evidence of matrix interference.

GC Semi VOA
Method 8011:
The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-360825 and analytical batch 400-361571 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 400-361571 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 400-361571/16), (CCV 400-361571/27) and (CCV 400-361571/38).

The continuing calibration verification (CCV) associated with batch 400-362028 recovered above the upper control limit for 1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: P56-ROX-071217-EB (400-140528-4).

Organic Prep
Method 3520C:
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batches 400-360696, 400-360696, and 400-362486.

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

TestAmerica Job ID: 400-140528-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140528-1	P66-ROX-071217	Water	07/12/17 10:00	07/13/17 08:10
400-140528-2	P93C-ROX-071217	Water	07/12/17 11:10	07/13/17 08:10
400-140528-3	P74-ROX-071217	Water	07/12/17 12:20	07/13/17 08:10
400-140528-4	P56-ROX-071217-EB	Water	07/12/17 14:15	07/13/17 08:10
400-140528-5	P56-ROX-071217	Water	07/12/17 14:35	07/13/17 08:10
400-140528-6	TB-ROX-071217-8260	Water	07/12/17 00:00	07/13/17 08:10
400-140528-7	TB-ROX-071217-8011	Water	07/12/17 00:00	07/13/17 08:10
400-140528-8	MW9-ROX-071217	Water	07/12/17 08:45	07/13/17 08:10
400-140528-9	MW5-ROX-071217-EB	Water	07/12/17 10:20	07/13/17 08:10
400-140528-10	MW5-ROX-071217	Water	07/12/17 10:45	07/13/17 08:10
400-140528-11	MW3-ROX-071217	Water	07/12/17 09:35	07/13/17 08:10
400-140528-12	MW2-ROX-071217	Water	07/12/17 12:45	07/13/17 08:10
400-140528-13	MW28-ROX-071217	Water	07/12/17 13:35	07/13/17 08:10
400-140528-14	ROST4PZC-ROX-071217	Water	07/12/17 14:25	07/13/17 08:10
400-140528-15	MW22-ROX-071217	Water	07/12/17 15:20	07/13/17 08:10
400-140528-16	MW22-ROX-071217-DUP	Water	07/12/17 15:20	07/13/17 08:10
400-140528-17	TB-ROX-07172017-8260-A	Water	07/12/17 00:00	07/13/17 08:10
400-140528-18	TB-ROX-07172017-8011-A	Water	07/12/17 00:00	07/13/17 08:10

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P66-ROX-071217 — Lab Sample ID: 400-140528-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.2		1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	6.1		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	81		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	8.6		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	4.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	140		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	4.2		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	120		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	1.3	J	5.0	0.60	ug/L	1		8260B	Total/NA
sec-Butylbenzene	8.1		1.0	0.70	ug/L	1		8260B	Total/NA
tert-Butylbenzene	3.9		1.0	0.63	ug/L	1		8260B	Total/NA
1,1,2,2-Tetrachloroethane	1.8		1.0	0.50	ug/L	1		8260B	Total/NA
Toluene	0.92	J	1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	41		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.87	J	1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	6.0	J	10	1.6	ug/L	1		8260B	Total/NA
Pyrene	0.22	J J	0.40	0.040	ug/L	2		8270D LL	Total/NA
1-Methylnaphthalene	110	E	0.40	0.040	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	30		0.40	0.040	ug/L	2		8270D LL	Total/NA
1-Methylnaphthalene - RERA	51	H J	0.96	0.096	ug/L	5		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	4.5	J	10	2.3	ug/L	1		8270D	Total/NA
Indene	1.9	J	10	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: P93C-ROX-071217 — Lab Sample ID: 400-140528-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.1		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.083	J	0.39	0.039	ug/L	2		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	4.2	J	9.8	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: P74-ROX-071217 — Lab Sample ID: 400-140528-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	22		1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	1.7		1.0	0.50	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	4.8	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	1.2		1.0	1.0	ug/L	1		8260B	Total/NA
o-Xylene	0.66	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	1.8		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	11		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	5.3		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	5.5	J	10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.038	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.065	J	0.20	0.021	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.59		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.42		0.20	0.020	ug/L	1		8270D LL	Total/NA

Client Sample ID: P56-ROX-071217-EB — Lab Sample ID: 400-140528-4

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P56-ROX-071217 — Lab Sample ID: 400-140528-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.9		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	19	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	8.9		1.0	0.50	ug/L	1		8260B	Total/NA
Ethyl methacrylate	2.8		1.0	0.60	ug/L	1		8260B	Total/NA
Isopropylbenzene	13		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	26		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	5.4		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	15		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	0.88	J	5.0	0.60	ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.1		1.0	0.70	ug/L	1		8260B	Total/NA
Toluene	1.8		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	9.1		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	2.5		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	27		10	1.6	ug/L	1		8260B	Total/NA
Phenanthrene	0.74		0.41	0.041	ug/L	2		8270D LL	Total/NA
1-Methylnaphthalene	14		0.41	0.041	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	14		0.41	0.041	ug/L	2		8270D LL	Total/NA
3 & 4 Methylphenol	29		21	1.1	ug/L	1		8270D	Total/NA

Client Sample ID: TB-ROX-071217-8260 — Lab Sample ID: 400-140528-6

No Detections.

Client Sample ID: TB-ROX-071217-8011 — Lab Sample ID: 400-140528-7

No Detections.

Client Sample ID: MW9-ROX-071217 — Lab Sample ID: 400-140528-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.76	J	1.0	0.38	ug/L	1		8260B	Total/NA

Client Sample ID: MW5-ROX-071217-EB — Lab Sample ID: 400-140528-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	31		25	10	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	0.14	J	0.39	0.077	ug/L	2		8270D LL	Total/NA
Chrysene	0.26	J	0.39	0.077	ug/L	2		8270D LL	Total/NA
Fluoranthene	0.090	J	0.39	0.039	ug/L	2		8270D LL	Total/NA
Pyrene	0.22	J	0.39	0.039	ug/L	2		8270D LL	Total/NA

Client Sample ID: MW5-ROX-071217 — Lab Sample ID: 400-140528-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.8		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
tert-Butylbenzene	2.4		1.0	0.63	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.13	J	0.40	0.040	ug/L	2		8270D LL	Total/NA

Client Sample ID: MW3-ROX-071217 — Lab Sample ID: 400-140528-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW3-ROX-071217 (Continued)

Lab Sample ID: 400-140528-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.40	J	1.0	0.38	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.6		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.8		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	20		5.0	1.6	ug/L	1		8260B	Total/NA
N-Propylbenzene	7.8		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	1.4	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	4.5		1.0	0.70	ug/L	1		8260B	Total/NA
Xylenes, Total	22		10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.94		0.40	0.040	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	0.67		0.40	0.040	ug/L	2		8270D LL	Total/NA
Di-n-octyl phthalate	0.55	J	9.9	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW2-ROX-071217

Lab Sample ID: 400-140528-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.2		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	9.3	J	25	2.6	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.85	J	1.0	0.50	ug/L	1		8260B	Total/NA
Ethylbenzene	150		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	60		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	86		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	14		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	6.2		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	79		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	7.3		5.0	0.60	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	6.2		1.0	0.71	ug/L	1		8260B	Total/NA
sec-Butylbenzene	5.5		1.0	0.70	ug/L	1		8260B	Total/NA
Toluene	8.0		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	40		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	70		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	93		10	1.6	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	10		0.39	0.039	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	5.7		0.39	0.039	ug/L	2		8270D LL	Total/NA
Di-n-octyl phthalate	0.48	J	9.7	0.43	ug/L	1		8270D	Total/NA

Client Sample ID: MW28-ROX-071217

Lab Sample ID: 400-140528-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.67	J	1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	0.63	J	1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.5		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	3.0		1.0	0.74	ug/L	1		8260B	Total/NA
o-Xylene	0.92	J	5.0	0.60	ug/L	1		8260B	Total/NA
Xylenes, Total	1.7	J	10	1.6	ug/L	1		8260B	Total/NA
Di-n-octyl phthalate	0.49	J	9.9	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: ROST4PZC-ROX-071217

Lab Sample ID: 400-140528-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		1.0	0.38	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ROST4PZC-ROX-071217 (Continued)

Lab Sample ID: 400-140528-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.84	J	1.0	0.50	ug/L	1		8260B	Total/NA
Ethylbenzene	130		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	6.4		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	240		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	98		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	9.7		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	3.5	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	17		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	44		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	14		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	240		10	1.6	ug/L	1		8260B	Total/NA
Acenaphthene	0.24		0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.13	J	0.20	0.021	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	0.14	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
3 & 4 Methylphenol	2.6	J	20	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: MW22-ROX-071217

Lab Sample ID: 400-140528-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.9		2.0	0.76	ug/L	2		8260B	Total/NA
Ethylbenzene	170		2.0	1.0	ug/L	2		8260B	Total/NA
Isopropylbenzene	9.2		2.0	1.1	ug/L	2		8260B	Total/NA
m-Xylene & p-Xylene	270		10	3.2	ug/L	2		8260B	Total/NA
Naphthalene	31		2.0	2.0	ug/L	2		8260B	Total/NA
N-Propylbenzene	12		2.0	1.4	ug/L	2		8260B	Total/NA
o-Xylene	130		10	1.2	ug/L	2		8260B	Total/NA
Toluene	17		2.0	1.4	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene	63		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	18		2.0	1.1	ug/L	2		8260B	Total/NA
Xylenes, Total	400		20	3.2	ug/L	2		8260B	Total/NA
1-Methylnaphthalene	5.0		0.41	0.041	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	6.5		0.41	0.041	ug/L	2		8270D LL	Total/NA
Indene	4.7	J	10	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: MW22-ROX-071217-DUP

Lab Sample ID: 400-140528-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.8		2.0	0.76	ug/L	2		8260B	Total/NA
Ethylbenzene	150		2.0	1.0	ug/L	2		8260B	Total/NA
Isopropylbenzene	8.8		2.0	1.1	ug/L	2		8260B	Total/NA
m-Xylene & p-Xylene	230		10	3.2	ug/L	2		8260B	Total/NA
Naphthalene	29		2.0	2.0	ug/L	2		8260B	Total/NA
N-Propylbenzene	11		2.0	1.4	ug/L	2		8260B	Total/NA
o-Xylene	110		10	1.2	ug/L	2		8260B	Total/NA
Toluene	15		2.0	1.4	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene	52		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	15		2.0	1.1	ug/L	2		8260B	Total/NA
Xylenes, Total	340		20	3.2	ug/L	2		8260B	Total/NA
1-Methylnaphthalene	5.3		0.40	0.040	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	7.1		0.40	0.040	ug/L	2		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW22-ROX-071217-DUP (Continued)

Lab Sample ID: 400-140528-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dimethylphenol	6.9	J	10	3.5	ug/L	1		8270D	Total/NA
Indene	4.8	J	10	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: TB-ROX-07172017-8260-A

Lab Sample ID: 400-140528-17

No Detections.

Client Sample ID: TB-ROX-07172017-8011-A

Lab Sample ID: 400-140528-18

No Detections.

Client Sample ID: P66-ROX-071217
Date Collected: 07/12/17 10:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-1
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			07/19/17 14:45	1
Acrolein	ND		20	10	ug/L			07/19/17 14:45	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 14:45	1
Benzene	**5.2**		1.0	0.38	ug/L			07/19/17 14:45	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 14:45	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 14:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 14:45	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 14:45	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 14:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 14:45	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 14:45	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 14:45	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 14:45	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 14:45	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 14:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 14:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 14:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 14:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Ethylbenzene	**6.1**		1.0	0.50	ug/L			07/19/17 14:45	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 14:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 14:45	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 14:45	1
Isopropylbenzene	**81**		1.0	0.53	ug/L			07/19/17 14:45	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 14:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 14:45	1
Methyl tert-butyl ether	**8.6**		1.0	0.74	ug/L			07/19/17 14:45	1
m-Xylene & p-Xylene	**4.7**	**J**	5.0	1.6	ug/L			07/19/17 14:45	1
Naphthalene	**140**		1.0	1.0	ug/L			07/19/17 14:45	1
n-Butylbenzene	**4.2**		1.0	0.76	ug/L			07/19/17 14:45	1
N-Propylbenzene	**120**		1.0	0.69	ug/L			07/19/17 14:45	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 14:45	1
o-Xylene	**1.3**	**J**	5.0	0.60	ug/L			07/19/17 14:45	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 14:45	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 14:45	1

Client Sample ID: P66-ROX-071217
Date Collected: 07/12/17 10:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**8.1**		1.0	0.70	ug/L			07/19/17 14:45	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 14:45	1
tert-Butylbenzene	**3.9**		1.0	0.63	ug/L			07/19/17 14:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 14:45	1
1,1,2,2-Tetrachloroethane	**1.8**		1.0	0.50	ug/L			07/19/17 14:45	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 14:45	1
Toluene	**0.92**	J	1.0	0.70	ug/L			07/19/17 14:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 14:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 14:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 14:45	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 14:45	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 14:45	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 14:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 14:45	1
1,2,4-Trimethylbenzene	**41**		1.0	0.82	ug/L			07/19/17 14:45	1
1,3,5-Trimethylbenzene	**0.87**	J	1.0	0.56	ug/L			07/19/17 14:45	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 14:45	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 14:45	1
Xylenes, Total	**6.0**	J	10	1.6	ug/L			07/19/17 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*07/19/17 14:45*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*07/19/17 14:45*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 14:45*	*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	*	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
Acenaphthylene	ND	*	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
Anthracene	ND	*	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
Benzo[a]anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Benzo[a]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Benzo[b]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Benzo[g,h,i]perylene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Benzo[k]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Chrysene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Dibenz(a,h)anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Fluoranthene	ND	*	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
Fluorene	ND	*	0.40	0.042	ug/L		07/17/17 11:07	07/28/17 13:43	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:43	2
Phenanthrene	ND	*	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
Pyrene	**0.22**	J J	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
1-Methylnaphthalene	**110**	E	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2
2-Methylnaphthalene	**30**		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*150*	*X*	*33 - 138*	*07/17/17 11:07*	*07/28/17 13:43*	*2*
2-Fluorobiphenyl	*22*	*	*15 - 122*	*07/17/17 11:07*	*07/28/17 13:43*	*2*

Client Sample ID: P66-ROX-071217
Date Collected: 07/12/17 10:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		19 - 130	07/17/17 11:07	07/28/17 13:43	2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - RERA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**51**	H J	0.96	0.096	ug/L		08/01/17 11:03	08/02/17 18:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	31	X	33 - 138	08/01/17 11:03	08/02/17 18:05	5
2-Fluorobiphenyl	67		15 - 122	08/01/17 11:03	08/02/17 18:05	5
Nitrobenzene-d5	66		19 - 130	08/01/17 11:03	08/02/17 18:05	5

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		07/17/17 11:07	07/19/17 23:48	1
Benzenethiol	ND	* UJ	10	1.7	ug/L		07/17/17 11:07	07/19/17 23:48	1
Benzoic acid	ND		30	7.3	ug/L		07/17/17 11:07	07/19/17 23:48	1
Benzyl alcohol	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/17/17 11:07	07/19/17 23:48	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/17/17 11:07	07/19/17 23:48	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/17/17 11:07	07/19/17 23:48	1
Bis(2-ethylhexyl) phthalate	**4.5**	J	10	2.3	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/19/17 23:48	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/17/17 11:07	07/19/17 23:48	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/17/17 11:07	07/19/17 23:48	1
2-Chlorophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Dibenzofuran	ND		10	0.52	ug/L		07/17/17 11:07	07/19/17 23:48	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Diethyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 23:48	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/17/17 11:07	07/19/17 23:48	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/19/17 23:48	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/19/17 23:48	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/17/17 11:07	07/19/17 23:48	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/19/17 23:48	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/19/17 23:48	1
Hexachloroethane	ND		10	4.2	ug/L		07/17/17 11:07	07/19/17 23:48	1
Indene	**1.9**	J	10	1.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
Isophorone	ND		10	0.57	ug/L		07/17/17 11:07	07/19/17 23:48	1
2-Methylphenol	ND		10	1.8	ug/L		07/17/17 11:07	07/19/17 23:48	1

Client Sample ID: P66-ROX-071217
Date Collected: 07/12/17 10:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/19/17 23:48	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/19/17 23:48	1
Nitrobenzene	ND		10	0.55	ug/L		07/17/17 11:07	07/19/17 23:48	1
2-Nitrophenol	ND		10	0.65	ug/L		07/17/17 11:07	07/19/17 23:48	1
4-Nitrophenol	ND	4J	10	2.1	ug/L		07/17/17 11:07	07/19/17 23:48	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 23:48	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/19/17 23:48	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/17/17 11:07	07/19/17 23:48	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/19/17 23:48	1
Phenol	ND		10	2.6	ug/L		07/17/17 11:07	07/19/17 23:48	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/19/17 23:48	1
Quinoline	ND		10	6.0	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/17/17 11:07	07/19/17 23:48	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 120*	*07/17/17 11:07*	*07/19/17 23:48*	*1*
2-Fluorophenol	*46*		*10 - 120*	*07/17/17 11:07*	*07/19/17 23:48*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*07/17/17 11:07*	*07/19/17 23:48*	*1*
Phenol-d5	*66*		*10 - 120*	*07/17/17 11:07*	*07/19/17 23:48*	*1*
Terphenyl-d14	*92*		*53 - 125*	*07/17/17 11:07*	*07/19/17 23:48*	*1*
2,4,6-Tribromophenol	*99*		*15 - 135*	*07/17/17 11:07*	*07/19/17 23:48*	*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		07/18/17 09:24	07/25/17 19:16	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*51 - 149*	*07/18/17 09:24*	*07/25/17 19:16*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P93C-ROX-071217
Date Collected: 07/12/17 11:10
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-2
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			07/19/17 10:25	1
Acrolein	ND		20	10	ug/L			07/19/17 10:25	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 10:25	1
Benzene	ND		1.0	0.38	ug/L			07/19/17 10:25	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 10:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 10:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 10:25	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 10:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 10:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 10:25	1
2-Chloroethyl vinyl ether	ND	UJ	5.0	2.0	ug/L			07/19/17 10:25	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 10:25	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 10:25	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 10:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 10:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 10:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 10:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 10:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 10:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 10:25	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 10:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 10:25	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 10:25	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 10:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 10:25	1
Methyl tert-butyl ether	**4.1**		1.0	0.74	ug/L			07/19/17 10:25	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 10:25	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 10:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 10:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 10:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 10:25	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 10:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 10:25	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 10:25	1

Client Sample ID: P93C-ROX-071217
Date Collected: 07/12/17 11:10
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-2
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			07/19/17 10:25	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 10:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 10:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 10:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 10:25	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 10:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 10:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 10:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 10:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:25	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 10:25	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 10:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 10:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 10:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 10:25	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 10:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 10:25	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*07/19/17 10:25*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 10:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 10:25*	*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		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
Acenaphthylene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
Anthracene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
Benzo[a]anthracene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Benzo[a]pyrene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Benzo[b]fluoranthene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Benzo[g,h,i]perylene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Benzo[k]fluoranthene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Chrysene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Dibenz(a,h)anthracene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Fluoranthene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
Fluorene	ND		0.39	0.041	ug/L		07/17/17 11:07	07/28/17 14:53	2
Indeno[1,2,3-cd]pyrene	ND		0.39	0.079	ug/L		07/17/17 11:07	07/28/17 14:53	2
Phenanthrene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
Pyrene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
1-Methylnaphthalene	**0.083**	**J**	0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2
2-Methylnaphthalene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 14:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*115*		*15 - 122*	*07/17/17 11:07*	*07/28/17 14:53*	*2*
Nitrobenzene-d5	*85*		*19 - 130*	*07/17/17 11:07*	*07/28/17 14:53*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P93C-ROX-071217
Date Collected: 07/12/17 11:10
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-2
Matrix: Water

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		07/17/17 11:07	07/20/17 00:18	1
Benzenethiol	ND	* UJ	9.8	1.7	ug/L		07/17/17 11:07	07/20/17 00:18	1
Benzoic acid	ND		30	7.2	ug/L		07/17/17 11:07	07/20/17 00:18	1
Benzyl alcohol	ND		9.8	2.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
Bis(2-chloroethoxy)methane	ND		9.8	0.68	ug/L		07/17/17 11:07	07/20/17 00:18	1
Bis(2-chloroethyl)ether	ND		9.8	0.73	ug/L		07/17/17 11:07	07/20/17 00:18	1
bis (2-chloroisopropyl) ether	ND		9.8	0.80	ug/L		07/17/17 11:07	07/20/17 00:18	1
Bis(2-ethylhexyl) phthalate	**4.2**	**J**	9.8	2.2	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Bromophenyl phenyl ether	ND		9.8	0.31	ug/L		07/17/17 11:07	07/20/17 00:18	1
Butyl benzyl phthalate	ND		9.8	0.68	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Chloroaniline	ND		9.8	3.3	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Chloro-3-methylphenol	ND		9.8	3.7	ug/L		07/17/17 11:07	07/20/17 00:18	1
2-Chloronaphthalene	ND		9.8	0.51	ug/L		07/17/17 11:07	07/20/17 00:18	1
2-Chlorophenol	ND		9.8	2.2	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Chlorophenyl phenyl ether	ND		9.8	2.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
Dibenz[a,h]acridine	ND		9.8	3.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
Dibenzofuran	ND		9.8	0.51	ug/L		07/17/17 11:07	07/20/17 00:18	1
3,3'-Dichlorobenzidine	ND		9.8	2.6	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4-Dichlorophenol	ND		9.8	3.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
Diethyl phthalate	ND		9.8	0.69	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4-Dimethylphenol	ND		9.8	3.4	ug/L		07/17/17 11:07	07/20/17 00:18	1
Dimethyl phthalate	ND		9.8	0.59	ug/L		07/17/17 11:07	07/20/17 00:18	1
Di-n-butyl phthalate	ND		9.8	2.7	ug/L		07/17/17 11:07	07/20/17 00:18	1
4,6-Dinitro-ortho-cresol	ND		9.8	2.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4-Dinitrophenol	ND		30	3.3	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4-Dinitrotoluene	ND		9.8	1.9	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,6-Dinitrotoluene	ND		9.8	1.9	ug/L		07/17/17 11:07	07/20/17 00:18	1
Di-n-octyl phthalate	ND		9.8	0.43	ug/L		07/17/17 11:07	07/20/17 00:18	1
1,4-Dioxane	ND		9.8	0.98	ug/L		07/17/17 11:07	07/20/17 00:18	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.8	0.98	ug/L		07/17/17 11:07	07/20/17 00:18	1
Hexachlorobenzene	ND		9.8	0.25	ug/L		07/17/17 11:07	07/20/17 00:18	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 00:18	1
Hexachloroethane	ND		9.8	4.1	ug/L		07/17/17 11:07	07/20/17 00:18	1
Indene	ND		9.8	0.98	ug/L		07/17/17 11:07	07/20/17 00:18	1
Isophorone	ND		9.8	0.56	ug/L		07/17/17 11:07	07/20/17 00:18	1
2-Methylphenol	ND		9.8	1.8	ug/L		07/17/17 11:07	07/20/17 00:18	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 00:18	1
2-Nitroaniline	ND		9.8	2.2	ug/L		07/17/17 11:07	07/20/17 00:18	1
3-Nitroaniline	ND		9.8	1.8	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Nitroaniline	ND		9.8	2.4	ug/L		07/17/17 11:07	07/20/17 00:18	1
Nitrobenzene	ND		9.8	0.54	ug/L		07/17/17 11:07	07/20/17 00:18	1
2-Nitrophenol	ND		9.8	0.64	ug/L		07/17/17 11:07	07/20/17 00:18	1
4-Nitrophenol	ND	UJ	9.8	2.1	ug/L		07/17/17 11:07	07/20/17 00:18	1
N-Nitrosodimethylamine	ND		9.8	3.4	ug/L		07/17/17 11:07	07/20/17 00:18	1
N-Nitrosodi-n-propylamine	ND		9.8	3.2	ug/L		07/17/17 11:07	07/20/17 00:18	1
N-Nitrosodiphenylamine	ND		9.8	0.46	ug/L		07/17/17 11:07	07/20/17 00:18	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 00:18	1
Phenol	ND		9.8	2.6	ug/L		07/17/17 11:07	07/20/17 00:18	1
Pyridine	ND		9.8	3.1	ug/L		07/17/17 11:07	07/20/17 00:18	1

Client Sample ID: P93C-ROX-071217
Date Collected: 07/12/17 11:10
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.8	5.9	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4,5-Trichlorophenol	ND		9.8	3.6	ug/L		07/17/17 11:07	07/20/17 00:18	1
2,4,6-Trichlorophenol	ND		9.8	3.4	ug/L		07/17/17 11:07	07/20/17 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*07/17/17 11:07*	*07/20/17 00:18*	*1*
2-Fluorophenol	*46*		*10 - 120*	*07/17/17 11:07*	*07/20/17 00:18*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*07/17/17 11:07*	*07/20/17 00:18*	*1*
Phenol-d5	*65*		*10 - 120*	*07/17/17 11:07*	*07/20/17 00:18*	*1*
Terphenyl-d14	*104*		*53 - 125*	*07/17/17 11:07*	*07/20/17 00:18*	*1*
2,4,6-Tribromophenol	*120*		*15 - 135*	*07/17/17 11:07*	*07/20/17 00:18*	*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		07/18/17 09:24	07/25/17 14:20	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		07/18/17 09:24	07/25/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*51 - 149*	*07/18/17 09:24*	*07/25/17 14:20*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P74-ROX-071217
Date Collected: 07/12/17 12:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-3
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			07/24/17 12:27	1
Acrolein	ND		20	10	ug/L			07/24/17 12:27	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 12:27	1
Benzene	**22**		1.0	0.38	ug/L			07/24/17 12:27	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 12:27	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 12:27	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 12:27	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 12:27	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 12:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 12:27	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 12:27	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 12:27	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 12:27	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 12:27	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 12:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Ethylbenzene	**1.7**		1.0	0.50	ug/L			07/24/17 12:27	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 12:27	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 12:27	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 12:27	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 12:27	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 12:27	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 12:27	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 12:27	1
m-Xylene & p-Xylene	**4.8**	**J**	5.0	1.6	ug/L			07/24/17 12:27	1
Naphthalene	**1.2**		1.0	1.0	ug/L			07/24/17 12:27	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 12:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 12:27	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 12:27	1
o-Xylene	**0.66**	**J**	5.0	0.60	ug/L			07/24/17 12:27	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 12:27	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 12:27	1

Client Sample ID: P74-ROX-071217
Date Collected: 07/12/17 12:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-3
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			07/24/17 12:27	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 12:27	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 12:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 12:27	1
Toluene	**1.8**		1.0	0.70	ug/L			07/24/17 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 12:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 12:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 12:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 12:27	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 12:27	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 12:27	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 12:27	1
1,2,4-Trimethylbenzene	**11**		1.0	0.82	ug/L			07/24/17 12:27	1
1,3,5-Trimethylbenzene	**5.3**		1.0	0.56	ug/L			07/24/17 12:27	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 12:27	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 12:27	1
Xylenes, Total	**5.5**	J	10	1.6	ug/L			07/24/17 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/24/17 12:27*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*07/24/17 12:27*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/24/17 12:27*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.038**	J	0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
Anthracene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Chrysene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Fluoranthene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
Fluorene	**0.065**	J	0.20	0.021	ug/L		07/17/17 11:07	07/27/17 19:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:00	1
Phenanthrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
Pyrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
1-Methylnaphthalene	**0.59**		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1
2-Methylnaphthalene	**0.42**		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*15 - 122*	*07/17/17 11:07*	*07/27/17 19:00*	*1*
Nitrobenzene-d5	*58*		*19 - 130*	*07/17/17 11:07*	*07/27/17 19:00*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P74-ROX-071217
Date Collected: 07/12/17 12:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-3
Matrix: Water

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		07/17/17 11:07	07/20/17 00:48	1
Benzenethiol	ND	* UJ	9.9	1.7	ug/L		07/17/17 11:07	07/20/17 00:48	1
Benzoic acid	ND		30	7.2	ug/L		07/17/17 11:07	07/20/17 00:48	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 00:48	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/17/17 11:07	07/20/17 00:48	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/17/17 11:07	07/20/17 00:48	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/17/17 11:07	07/20/17 00:48	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Chloroaniline	ND		9.9	3.3	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Chloro-3-methylphenol	ND		9.9	3.7	ug/L		07/17/17 11:07	07/20/17 00:48	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 00:48	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 00:48	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4-Dimethylphenol	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 00:48	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/17/17 11:07	07/20/17 00:48	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/17/17 11:07	07/20/17 00:48	1
4,6-Dinitro-ortho-cresol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4-Dinitrophenol	ND		30	3.3	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 00:48	1
Di-n-octyl phthalate	ND		9.9	0.43	ug/L		07/17/17 11:07	07/20/17 00:48	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 00:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 00:48	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/17/17 11:07	07/20/17 00:48	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 00:48	1
Hexachloroethane	ND		9.9	4.1	ug/L		07/17/17 11:07	07/20/17 00:48	1
Indene	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 00:48	1
Isophorone	ND		9.9	0.56	ug/L		07/17/17 11:07	07/20/17 00:48	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 00:48	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 00:48	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 00:48	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Nitroaniline	ND		9.9	2.4	ug/L		07/17/17 11:07	07/20/17 00:48	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/17/17 11:07	07/20/17 00:48	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/17/17 11:07	07/20/17 00:48	1
4-Nitrophenol	ND	UJ	9.9	2.1	ug/L		07/17/17 11:07	07/20/17 00:48	1
N-Nitrosodimethylamine	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 00:48	1
N-Nitrosodi-n-propylamine	ND		9.9	3.3	ug/L		07/17/17 11:07	07/20/17 00:48	1
N-Nitrosodiphenylamine	ND		9.9	0.46	ug/L		07/17/17 11:07	07/20/17 00:48	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 00:48	1
Phenol	ND		9.9	2.6	ug/L		07/17/17 11:07	07/20/17 00:48	1
Pyridine	ND		9.9	3.2	ug/L		07/17/17 11:07	07/20/17 00:48	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P74-ROX-071217
Date Collected: 07/12/17 12:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.9	5.9	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4,5-Trichlorophenol	ND		9.9	3.6	ug/L		07/17/17 11:07	07/20/17 00:48	1
2,4,6-Trichlorophenol	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*34 - 120*	*07/17/17 11:07*	*07/20/17 00:48*	*1*
2-Fluorophenol	*26*		*10 - 120*	*07/17/17 11:07*	*07/20/17 00:48*	*1*
Nitrobenzene-d5	*55*		*27 - 120*	*07/17/17 11:07*	*07/20/17 00:48*	*1*
Phenol-d5	*39*		*10 - 120*	*07/17/17 11:07*	*07/20/17 00:48*	*1*
Terphenyl-d14	*88*		*53 - 125*	*07/17/17 11:07*	*07/20/17 00:48*	*1*
2,4,6-Tribromophenol	*104*		*15 - 135*	*07/17/17 11:07*	*07/20/17 00:48*	*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	*	0.029	0.0053	ug/L		07/18/17 09:24	07/25/17 14:39	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		07/18/17 09:24	07/25/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*07/18/17 09:24*	*07/25/17 14:39*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P56-ROX-071217-EB
Date Collected: 07/12/17 14:15
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-4
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			07/19/17 13:58	1
Acrolein	ND		20	10	ug/L			07/19/17 13:58	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 13:58	1
Benzene	ND		1.0	0.38	ug/L			07/19/17 13:58	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 13:58	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 13:58	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 13:58	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 13:58	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 13:58	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 13:58	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 13:58	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 13:58	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 13:58	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 13:58	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 13:58	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 13:58	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 13:58	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 13:58	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 13:58	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 13:58	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 13:58	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 13:58	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 13:58	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 13:58	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 13:58	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 13:58	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 13:58	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 13:58	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 13:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 13:58	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 13:58	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 13:58	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 13:58	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 13:58	1

Client Sample ID: P56-ROX-071217-EB
Date Collected: 07/12/17 14:15
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-4
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			07/19/17 13:58	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 13:58	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 13:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 13:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 13:58	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 13:58	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 13:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 13:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 13:58	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 13:58	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 13:58	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 13:58	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 13:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 13:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 13:58	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 13:58	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 13:58	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/19/17 13:58*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 13:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 13:58*	*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		07/17/17 11:07	07/27/17 19:23	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
Anthracene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Benzo[a]pyrene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Benzo[g,h,i]perylene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Chrysene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Dibenz(a,h)anthracene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Fluoranthene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
Fluorene	ND		0.20	0.021	ug/L		07/17/17 11:07	07/27/17 19:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.039	ug/L		07/17/17 11:07	07/27/17 19:23	1
Phenanthrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
Pyrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*119*		*15 - 122*	*07/17/17 11:07*	*07/27/17 19:23*	*1*
Nitrobenzene-d5	*83*		*19 - 130*	*07/17/17 11:07*	*07/27/17 19:23*	*1*

Client Sample ID: P56-ROX-071217-EB
Date Collected: 07/12/17 14:15
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-4
Matrix: Water

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		07/17/17 11:07	07/20/17 18:54	1
Benzenethiol	ND		9.9	1.7	ug/L		07/17/17 11:07	07/20/17 18:54	1
Benzoic acid	ND		30	7.2	ug/L		07/17/17 11:07	07/20/17 18:54	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 18:54	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/17/17 11:07	07/20/17 18:54	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/17/17 11:07	07/20/17 18:54	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/17/17 11:07	07/20/17 18:54	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Chloro-3-methylphenol	ND		9.9	3.7	ug/L		07/17/17 11:07	07/20/17 18:54	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 18:54	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 18:54	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4-Dimethylphenol	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 18:54	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/17/17 11:07	07/20/17 18:54	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/17/17 11:07	07/20/17 18:54	1
4,6-Dinitro-ortho-cresol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 18:54	1
Di-n-octyl phthalate	ND		9.9	0.43	ug/L		07/17/17 11:07	07/20/17 18:54	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 18:54	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 18:54	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/17/17 11:07	07/20/17 18:54	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/17/17 11:07	07/20/17 18:54	1
Hexachloroethane	ND		9.9	4.1	ug/L		07/17/17 11:07	07/20/17 18:54	1
Indene	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 18:54	1
Isophorone	ND		9.9	0.56	ug/L		07/17/17 11:07	07/20/17 18:54	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 18:54	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 18:54	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 18:54	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Nitroaniline	ND		9.9	2.4	ug/L		07/17/17 11:07	07/20/17 18:54	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/17/17 11:07	07/20/17 18:54	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/17/17 11:07	07/20/17 18:54	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/17/17 11:07	07/20/17 18:54	1
N-Nitrosodimethylamine	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 18:54	1
N-Nitrosodi-n-propylamine	ND		9.9	3.3	ug/L		07/17/17 11:07	07/20/17 18:54	1
N-Nitrosodiphenylamine	ND		9.9	0.46	ug/L		07/17/17 11:07	07/20/17 18:54	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 18:54	1
Phenol	ND	*	9.9	2.6	ug/L		07/17/17 11:07	07/20/17 18:54	1
Pyridine	ND		9.9	3.2	ug/L		07/17/17 11:07	07/20/17 18:54	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P56-ROX-071217-EB
Date Collected: 07/12/17 14:15
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.9	5.9	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4,5-Trichlorophenol	ND		9.9	3.6	ug/L		07/17/17 11:07	07/20/17 18:54	1
2,4,6-Trichlorophenol	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*07/17/17 11:07*	*07/20/17 18:54*	*1*
2-Fluorophenol	*48*		*10 - 120*	*07/17/17 11:07*	*07/20/17 18:54*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*07/17/17 11:07*	*07/20/17 18:54*	*1*
Phenol-d5	*67*		*10 - 120*	*07/17/17 11:07*	*07/20/17 18:54*	*1*
Terphenyl-d14	*98*		*53 - 125*	*07/17/17 11:07*	*07/20/17 18:54*	*1*
2,4,6-Tribromophenol	*25*		*15 - 135*	*07/17/17 11:07*	*07/20/17 18:54*	*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		07/18/17 09:24	07/28/17 00:18	1
1,2-Dibromoethane	ND	*	0.020	0.0049	ug/L		07/18/17 09:24	07/28/17 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*51 - 149*	*07/18/17 09:24*	*07/28/17 00:18*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P56-ROX-071217
Date Collected: 07/12/17 14:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-5
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			07/19/17 15:32	1
Acrolein	ND		20	10	ug/L			07/19/17 15:32	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 15:32	1
Benzene	**4.9**		1.0	0.38	ug/L			07/19/17 15:32	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 15:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 15:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 15:32	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 15:32	1
2-Butanone (MEK)	**19**	J	25	2.6	ug/L			07/19/17 15:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 15:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 15:32	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 15:32	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 15:32	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 15:32	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 15:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 15:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 15:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 15:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Ethylbenzene	**8.9**		1.0	0.50	ug/L			07/19/17 15:32	1
Ethyl methacrylate	**2.8**		1.0	0.60	ug/L			07/19/17 15:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 15:32	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 15:32	1
Isopropylbenzene	**13**		1.0	0.53	ug/L			07/19/17 15:32	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 15:32	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 15:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 15:32	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 15:32	1
m-Xylene & p-Xylene	**26**		5.0	1.6	ug/L			07/19/17 15:32	1
Naphthalene	**5.4**		1.0	1.0	ug/L			07/19/17 15:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 15:32	1
N-Propylbenzene	**15**		1.0	0.69	ug/L			07/19/17 15:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 15:32	1
o-Xylene	**0.88**	J	5.0	0.60	ug/L			07/19/17 15:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 15:32	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 15:32	1

Client Sample ID: P56-ROX-071217
Date Collected: 07/12/17 14:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**1.1**		1.0	0.70	ug/L			07/19/17 15:32	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 15:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 15:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 15:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 15:32	1
Toluene	**1.8**		1.0	0.70	ug/L			07/19/17 15:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 15:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 15:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 15:32	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:32	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 15:32	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 15:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 15:32	1
1,2,4-Trimethylbenzene	**9.1**		1.0	0.82	ug/L			07/19/17 15:32	1
1,3,5-Trimethylbenzene	**2.5**		1.0	0.56	ug/L			07/19/17 15:32	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 15:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 15:32	1
Xylenes, Total	**27**		10	1.6	ug/L			07/19/17 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/19/17 15:32*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/19/17 15:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/19/17 15:32*	*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		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
Acenaphthylene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
Anthracene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
Benzo[a]anthracene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Benzo[a]pyrene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Benzo[b]fluoranthene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Benzo[g,h,i]perylene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Benzo[k]fluoranthene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Chrysene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Dibenz(a,h)anthracene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Fluoranthene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
Fluorene	ND		0.41	0.044	ug/L		07/17/17 11:07	07/28/17 15:16	2
Indeno[1,2,3-cd]pyrene	ND		0.41	0.083	ug/L		07/17/17 11:07	07/28/17 15:16	2
Phenanthrene	**0.74**		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
Pyrene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
1-Methylnaphthalene	**14**		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2
2-Methylnaphthalene	**14**		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 15:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*15 - 122*	*07/17/17 11:07*	*07/28/17 15:16*	*2*
Nitrobenzene-d5	*112*		*19 - 130*	*07/17/17 11:07*	*07/28/17 15:16*	*2*

Client Sample ID: P56-ROX-071217

Date Collected: 07/12/17 14:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.9	ug/L		07/17/17 11:07	07/20/17 19:24	1
Benzenethiol	ND	UJ	10	1.8	ug/L		07/17/17 11:07	07/20/17 19:24	1
Benzoic acid	ND		31	7.6	ug/L		07/17/17 11:07	07/20/17 19:24	1
Benzyl alcohol	ND		10	2.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
Bis(2-chloroethoxy)methane	ND		10	0.72	ug/L		07/17/17 11:07	07/20/17 19:24	1
Bis(2-chloroethyl)ether	ND		10	0.77	ug/L		07/17/17 11:07	07/20/17 19:24	1
bis (2-chloroisopropyl) ether	ND		10	0.84	ug/L		07/17/17 11:07	07/20/17 19:24	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Bromophenyl phenyl ether	ND		10	0.33	ug/L		07/17/17 11:07	07/20/17 19:24	1
Butyl benzyl phthalate	ND		10	0.72	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Chloroaniline	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Chloro-3-methylphenol	ND		10	3.9	ug/L		07/17/17 11:07	07/20/17 19:24	1
2-Chloronaphthalene	ND		10	0.54	ug/L		07/17/17 11:07	07/20/17 19:24	1
2-Chlorophenol	ND		10	2.3	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Chlorophenyl phenyl ether	ND		10	2.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
Dibenz[a,h]acridine	ND		10	3.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
Dibenzofuran	ND		10	0.54	ug/L		07/17/17 11:07	07/20/17 19:24	1
3,3'-Dichlorobenzidine	ND		10	2.7	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4-Dichlorophenol	ND		10	3.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
Diethyl phthalate	ND		10	0.73	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4-Dimethylphenol	ND		10	3.6	ug/L		07/17/17 11:07	07/20/17 19:24	1
Dimethyl phthalate	ND		10	0.62	ug/L		07/17/17 11:07	07/20/17 19:24	1
Di-n-butyl phthalate	ND		10	2.8	ug/L		07/17/17 11:07	07/20/17 19:24	1
4,6-Dinitro-ortho-cresol	ND		10	2.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4-Dinitrophenol	ND		31	3.5	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 19:24	1
Di-n-octyl phthalate	ND		10	0.46	ug/L		07/17/17 11:07	07/20/17 19:24	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 19:24	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 19:24	1
Hexachlorobenzene	ND		10	0.26	ug/L		07/17/17 11:07	07/20/17 19:24	1
Hexachlorocyclopentadiene	ND		21	2.7	ug/L		07/17/17 11:07	07/20/17 19:24	1
Hexachloroethane	ND		10	4.4	ug/L		07/17/17 11:07	07/20/17 19:24	1
Indene	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 19:24	1
Isophorone	ND		10	0.59	ug/L		07/17/17 11:07	07/20/17 19:24	1
2-Methylphenol	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 19:24	1
3 & 4 Methylphenol	**29**		21	1.1	ug/L		07/17/17 11:07	07/20/17 19:24	1
2-Nitroaniline	ND		10	2.3	ug/L		07/17/17 11:07	07/20/17 19:24	1
3-Nitroaniline	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Nitroaniline	ND		10	2.6	ug/L		07/17/17 11:07	07/20/17 19:24	1
Nitrobenzene	ND		10	0.57	ug/L		07/17/17 11:07	07/20/17 19:24	1
2-Nitrophenol	ND		10	0.67	ug/L		07/17/17 11:07	07/20/17 19:24	1
4-Nitrophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 19:24	1
N-Nitrosodimethylamine	ND		10	3.6	ug/L		07/17/17 11:07	07/20/17 19:24	1
N-Nitrosodi-n-propylamine	ND		10	3.4	ug/L		07/17/17 11:07	07/20/17 19:24	1
N-Nitrosodiphenylamine	ND		10	0.49	ug/L		07/17/17 11:07	07/20/17 19:24	1
Pentachlorophenol	ND		21	1.9	ug/L		07/17/17 11:07	07/20/17 19:24	1
Phenol	ND	*	10	2.7	ug/L		07/17/17 11:07	07/20/17 19:24	1
Pyridine	ND		10	3.3	ug/L		07/17/17 11:07	07/20/17 19:24	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: P56-ROX-071217
Date Collected: 07/12/17 14:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		10	6.2	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4,5-Trichlorophenol	ND		10	3.8	ug/L		07/17/17 11:07	07/20/17 19:24	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		07/17/17 11:07	07/20/17 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*34 - 120*	*07/17/17 11:07*	*07/20/17 19:24*	*1*
2-Fluorophenol	*63*		*10 - 120*	*07/17/17 11:07*	*07/20/17 19:24*	*1*
Nitrobenzene-d5	*93*		*27 - 120*	*07/17/17 11:07*	*07/20/17 19:24*	*1*
Phenol-d5	*94*		*10 - 120*	*07/17/17 11:07*	*07/20/17 19:24*	*1*
Terphenyl-d14	*64*		*53 - 125*	*07/17/17 11:07*	*07/20/17 19:24*	*1*
2,4,6-Tribromophenol	*152*	X	*15 - 135*	*07/17/17 11:07*	*07/20/17 19:24*	*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		07/18/17 09:24	07/25/17 15:16	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*07/18/17 09:24*	*07/25/17 15:16*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: TB-ROX-071217-8260
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-6
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			07/19/17 12:24	1
Acrolein	ND		20	10	ug/L			07/19/17 12:24	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 12:24	1
Benzene	ND		1.0	0.38	ug/L			07/19/17 12:24	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 12:24	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 12:24	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 12:24	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 12:24	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 12:24	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 12:24	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 12:24	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 12:24	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 12:24	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 12:24	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 12:24	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 12:24	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 12:24	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 12:24	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 12:24	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 12:24	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 12:24	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 12:24	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 12:24	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 12:24	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 12:24	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 12:24	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 12:24	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 12:24	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 12:24	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 12:24	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 12:24	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 12:24	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 12:24	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: TB-ROX-071217-8260
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-6
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			07/19/17 12:24	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 12:24	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 12:24	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 12:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 12:24	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 12:24	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 12:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 12:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 12:24	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:24	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 12:24	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 12:24	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 12:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 12:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 12:24	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 12:24	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 12:24	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*07/19/17 12:24*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 12:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/19/17 12:24*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: TB-ROX-071217-8011
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-7
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		07/18/17 09:24	07/25/17 15:34	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		07/18/17 09:24	07/25/17 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*128*		*51 - 149*	*07/18/17 09:24*	*07/25/17 15:34*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW9-ROX-071217
Date Collected: 07/12/17 08:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-8
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			07/19/17 15:56	1
Acrolein	ND		20	10	ug/L			07/19/17 15:56	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 15:56	1
Benzene	**0.76**	**J**	1.0	0.38	ug/L			07/19/17 15:56	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 15:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 15:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 15:56	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 15:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 15:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 15:56	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 15:56	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 15:56	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 15:56	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 15:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 15:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 15:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 15:56	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 15:56	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 15:56	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 15:56	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 15:56	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 15:56	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 15:56	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 15:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 15:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 15:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 15:56	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 15:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 15:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 15:56	1

Client Sample ID: MW9-ROX-071217
Date Collected: 07/12/17 08:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-8
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			07/19/17 15:56	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 15:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 15:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 15:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 15:56	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 15:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 15:56	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 15:56	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 15:56	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 15:56	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 15:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 15:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 15:56	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 15:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 15:56	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*07/19/17 15:56*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*07/19/17 15:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 15:56*	*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		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
Acenaphthylene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
Anthracene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
Benzo[a]anthracene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Benzo[a]pyrene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Benzo[b]fluoranthene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Benzo[g,h,i]perylene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Benzo[k]fluoranthene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Chrysene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Dibenz(a,h)anthracene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Fluoranthene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
Fluorene	ND		0.38	0.040	ug/L		07/17/17 11:07	07/28/17 15:39	2
Indeno[1,2,3-cd]pyrene	ND		0.38	0.076	ug/L		07/17/17 11:07	07/28/17 15:39	2
Phenanthrene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
Pyrene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
1-Methylnaphthalene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2
2-Methylnaphthalene	ND		0.38	0.038	ug/L		07/17/17 11:07	07/28/17 15:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*15 - 122*	*07/17/17 11:07*	*07/28/17 15:39*	*2*
Nitrobenzene-d5	*74*		*19 - 130*	*07/17/17 11:07*	*07/28/17 15:39*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW9-ROX-071217
Date Collected: 07/12/17 08:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	3.6	ug/L		07/17/17 11:07	07/20/17 19:54	1
Benzenethiol	ND	UJ	9.6	1.6	ug/L		07/17/17 11:07	07/20/17 19:54	1
Benzoic acid	ND		29	7.0	ug/L		07/17/17 11:07	07/20/17 19:54	1
Benzyl alcohol	ND		9.6	1.9	ug/L		07/17/17 11:07	07/20/17 19:54	1
Bis(2-chloroethoxy)methane	ND		9.6	0.66	ug/L		07/17/17 11:07	07/20/17 19:54	1
Bis(2-chloroethyl)ether	ND		9.6	0.71	ug/L		07/17/17 11:07	07/20/17 19:54	1
bis (2-chloroisopropyl) ether	ND		9.6	0.77	ug/L		07/17/17 11:07	07/20/17 19:54	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.2	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Bromophenyl phenyl ether	ND		9.6	0.31	ug/L		07/17/17 11:07	07/20/17 19:54	1
Butyl benzyl phthalate	ND		9.6	0.66	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Chloroaniline	ND		9.6	3.2	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Chloro-3-methylphenol	ND		9.6	3.6	ug/L		07/17/17 11:07	07/20/17 19:54	1
2-Chloronaphthalene	ND		9.6	0.50	ug/L		07/17/17 11:07	07/20/17 19:54	1
2-Chlorophenol	ND		9.6	2.1	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Chlorophenyl phenyl ether	ND		9.6	1.9	ug/L		07/17/17 11:07	07/20/17 19:54	1
Dibenz[a,h]acridine	ND		9.6	2.9	ug/L		07/17/17 11:07	07/20/17 19:54	1
Dibenzofuran	ND		9.6	0.50	ug/L		07/17/17 11:07	07/20/17 19:54	1
3,3'-Dichlorobenzidine	ND		9.6	2.5	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4-Dichlorophenol	ND		9.6	2.9	ug/L		07/17/17 11:07	07/20/17 19:54	1
Diethyl phthalate	ND		9.6	0.67	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4-Dimethylphenol	ND		9.6	3.3	ug/L		07/17/17 11:07	07/20/17 19:54	1
Dimethyl phthalate	ND		9.6	0.57	ug/L		07/17/17 11:07	07/20/17 19:54	1
Di-n-butyl phthalate	ND		9.6	2.6	ug/L		07/17/17 11:07	07/20/17 19:54	1
4,6-Dinitro-ortho-cresol	ND		9.6	1.9	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4-Dinitrophenol	ND		29	3.2	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4-Dinitrotoluene	ND		9.6	1.8	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,6-Dinitrotoluene	ND		9.6	1.8	ug/L		07/17/17 11:07	07/20/17 19:54	1
Di-n-octyl phthalate	ND		9.6	0.42	ug/L		07/17/17 11:07	07/20/17 19:54	1
1,4-Dioxane	ND		9.6	0.96	ug/L		07/17/17 11:07	07/20/17 19:54	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	0.96	ug/L		07/17/17 11:07	07/20/17 19:54	1
Hexachlorobenzene	ND		9.6	0.24	ug/L		07/17/17 11:07	07/20/17 19:54	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/17/17 11:07	07/20/17 19:54	1
Hexachloroethane	ND		9.6	4.0	ug/L		07/17/17 11:07	07/20/17 19:54	1
Indene	ND		9.6	0.96	ug/L		07/17/17 11:07	07/20/17 19:54	1
Isophorone	ND		9.6	0.54	ug/L		07/17/17 11:07	07/20/17 19:54	1
2-Methylphenol	ND		9.6	1.7	ug/L		07/17/17 11:07	07/20/17 19:54	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/17/17 11:07	07/20/17 19:54	1
2-Nitroaniline	ND		9.6	2.1	ug/L		07/17/17 11:07	07/20/17 19:54	1
3-Nitroaniline	ND		9.6	1.7	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Nitroaniline	ND		9.6	2.4	ug/L		07/17/17 11:07	07/20/17 19:54	1
Nitrobenzene	ND		9.6	0.53	ug/L		07/17/17 11:07	07/20/17 19:54	1
2-Nitrophenol	ND		9.6	0.62	ug/L		07/17/17 11:07	07/20/17 19:54	1
4-Nitrophenol	ND		9.6	2.0	ug/L		07/17/17 11:07	07/20/17 19:54	1
N-Nitrosodimethylamine	ND		9.6	3.3	ug/L		07/17/17 11:07	07/20/17 19:54	1
N-Nitrosodi-n-propylamine	ND		9.6	3.2	ug/L		07/17/17 11:07	07/20/17 19:54	1
N-Nitrosodiphenylamine	ND		9.6	0.45	ug/L		07/17/17 11:07	07/20/17 19:54	1
Pentachlorophenol	ND		19	1.7	ug/L		07/17/17 11:07	07/20/17 19:54	1
Phenol	ND	*	9.6	2.5	ug/L		07/17/17 11:07	07/20/17 19:54	1
Pyridine	ND		9.6	3.1	ug/L		07/17/17 11:07	07/20/17 19:54	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW9-ROX-071217
Date Collected: 07/12/17 08:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.6	5.7	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4,5-Trichlorophenol	ND		9.6	3.5	ug/L		07/17/17 11:07	07/20/17 19:54	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		07/17/17 11:07	07/20/17 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*34 - 120*	*07/17/17 11:07*	*07/20/17 19:54*	*1*
2-Fluorophenol	*53*		*10 - 120*	*07/17/17 11:07*	*07/20/17 19:54*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*07/17/17 11:07*	*07/20/17 19:54*	*1*
Phenol-d5	*70*		*10 - 120*	*07/17/17 11:07*	*07/20/17 19:54*	*1*
Terphenyl-d14	*110*		*53 - 125*	*07/17/17 11:07*	*07/20/17 19:54*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*07/17/17 11:07*	*07/20/17 19:54*	*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		07/18/17 09:24	07/25/17 15:53	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:24	07/25/17 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*51 - 149*	*07/18/17 09:24*	*07/25/17 15:53*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217-EB
Date Collected: 07/12/17 10:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		25	10	ug/L			07/24/17 11:38	1
Acrolein	ND		20	10	ug/L			07/24/17 11:38	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 11:38	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 11:38	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 11:38	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 11:38	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 11:38	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 11:38	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 11:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 11:38	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/24/17 11:38	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 11:38	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 11:38	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 11:38	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 11:38	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 11:38	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 11:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 11:38	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 11:38	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 11:38	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 11:38	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 11:38	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 11:38	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 11:38	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 11:38	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 11:38	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 11:38	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 11:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 11:38	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 11:38	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 11:38	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 11:38	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 11:38	1

Client Sample ID: MW5-ROX-071217-EB
Date Collected: 07/12/17 10:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-9
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			07/24/17 11:38	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 11:38	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 11:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 11:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 11:38	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 11:38	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 11:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 11:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 11:38	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 11:38	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 11:38	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/24/17 11:38	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 11:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 11:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 11:38	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 11:38	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 11:38	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*07/24/17 11:38*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*07/24/17 11:38*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/24/17 11:38*	*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		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
Acenaphthylene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
Anthracene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
Benzo[a]anthracene	**0.14**	J	0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Benzo[a]pyrene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Benzo[b]fluoranthene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Benzo[g,h,i]perylene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Benzo[k]fluoranthene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Chrysene	**0.26**	J	0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Dibenz(a,h)anthracene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Fluoranthene	**0.090**	J	0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
Fluorene	ND		0.39	0.041	ug/L		07/17/17 11:07	07/28/17 16:03	2
Indeno[1,2,3-cd]pyrene	ND		0.39	0.077	ug/L		07/17/17 11:07	07/28/17 16:03	2
Phenanthrene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
Pyrene	**0.22**	J	0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
1-Methylnaphthalene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2
2-Methylnaphthalene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 16:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*15 - 122*	*07/17/17 11:07*	*07/28/17 16:03*	*2*
Nitrobenzene-d5	*77*		*19 - 130*	*07/17/17 11:07*	*07/28/17 16:03*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217-EB
Date Collected: 07/12/17 10:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-9
Matrix: Water

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		07/17/17 11:07	07/20/17 20:24	1
Benzenethiol	ND		9.7	1.6	ug/L		07/17/17 11:07	07/20/17 20:24	1
Benzoic acid	ND		29	7.1	ug/L		07/17/17 11:07	07/20/17 20:24	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 20:24	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/17/17 11:07	07/20/17 20:24	1
Bis(2-chloroethyl)ether	ND		9.7	0.72	ug/L		07/17/17 11:07	07/20/17 20:24	1
bis (2-chloroisopropyl) ether	ND		9.7	0.78	ug/L		07/17/17 11:07	07/20/17 20:24	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.2	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/17/17 11:07	07/20/17 20:24	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/17/17 11:07	07/20/17 20:24	1
2-Chloronaphthalene	ND		9.7	0.50	ug/L		07/17/17 11:07	07/20/17 20:24	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 20:24	1
Dibenz[a,h]acridine	ND		9.7	2.9	ug/L		07/17/17 11:07	07/20/17 20:24	1
Dibenzofuran	ND		9.7	0.50	ug/L		07/17/17 11:07	07/20/17 20:24	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/17/17 11:07	07/20/17 20:24	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4-Dimethylphenol	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 20:24	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/17/17 11:07	07/20/17 20:24	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/17/17 11:07	07/20/17 20:24	1
4,6-Dinitro-ortho-cresol	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		07/17/17 11:07	07/20/17 20:24	1
Di-n-octyl phthalate	ND		9.7	0.43	ug/L		07/17/17 11:07	07/20/17 20:24	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 20:24	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 20:24	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/17/17 11:07	07/20/17 20:24	1
Hexachlorocyclopentadiene	ND		19	2.5	ug/L		07/17/17 11:07	07/20/17 20:24	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/17/17 11:07	07/20/17 20:24	1
Indene	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 20:24	1
Isophorone	ND		9.7	0.55	ug/L		07/17/17 11:07	07/20/17 20:24	1
2-Methylphenol	ND		9.7	1.7	ug/L		07/17/17 11:07	07/20/17 20:24	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/17/17 11:07	07/20/17 20:24	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/17/17 11:07	07/20/17 20:24	1
3-Nitroaniline	ND		9.7	1.7	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/17/17 11:07	07/20/17 20:24	1
Nitrobenzene	ND		9.7	0.53	ug/L		07/17/17 11:07	07/20/17 20:24	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/17/17 11:07	07/20/17 20:24	1
4-Nitrophenol	ND		9.7	2.0	ug/L		07/17/17 11:07	07/20/17 20:24	1
N-Nitrosodimethylamine	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 20:24	1
N-Nitrosodi-n-propylamine	ND		9.7	3.2	ug/L		07/17/17 11:07	07/20/17 20:24	1
N-Nitrosodiphenylamine	ND		9.7	0.46	ug/L		07/17/17 11:07	07/20/17 20:24	1
Pentachlorophenol	ND		19	1.8	ug/L		07/17/17 11:07	07/20/17 20:24	1
Phenol	ND	*	9.7	2.5	ug/L		07/17/17 11:07	07/20/17 20:24	1
Pyridine	ND		9.7	3.1	ug/L		07/17/17 11:07	07/20/17 20:24	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217-EB
Date Collected: 07/12/17 10:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.7	5.8	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/17/17 11:07	07/20/17 20:24	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*34 - 120*	*07/17/17 11:07*	*07/20/17 20:24*	*1*
2-Fluorophenol	*55*		*10 - 120*	*07/17/17 11:07*	*07/20/17 20:24*	*1*
Nitrobenzene-d5	*79*		*27 - 120*	*07/17/17 11:07*	*07/20/17 20:24*	*1*
Phenol-d5	*74*		*10 - 120*	*07/17/17 11:07*	*07/20/17 20:24*	*1*
Terphenyl-d14	*111*		*53 - 125*	*07/17/17 11:07*	*07/20/17 20:24*	*1*
2,4,6-Tribromophenol	*82*		*15 - 135*	*07/17/17 11:07*	*07/20/17 20:24*	*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		07/18/17 09:24	07/25/17 16:30	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		07/18/17 09:24	07/25/17 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*07/18/17 09:24*	*07/25/17 16:30*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217
Date Collected: 07/12/17 10:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-10
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			07/19/17 16:20	1
Acrolein	ND		20	10	ug/L			07/19/17 16:20	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 16:20	1
Benzene	**3.8**		1.0	0.38	ug/L			07/19/17 16:20	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 16:20	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 16:20	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 16:20	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 16:20	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 16:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 16:20	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 16:20	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 16:20	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 16:20	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 16:20	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 16:20	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 16:20	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 16:20	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 16:20	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 16:20	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 16:20	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 16:20	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 16:20	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 16:20	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 16:20	1
Methyl tert-butyl ether	**2.6**		1.0	0.74	ug/L			07/19/17 16:20	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 16:20	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 16:20	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 16:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 16:20	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 16:20	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 16:20	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 16:20	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 16:20	1

Client Sample ID: MW5-ROX-071217
Date Collected: 07/12/17 10:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-10
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			07/19/17 16:20	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 16:20	1
tert-Butylbenzene	**2.4**		1.0	0.63	ug/L			07/19/17 16:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 16:20	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 16:20	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 16:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 16:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 16:20	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:20	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 16:20	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 16:20	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 16:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 16:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 16:20	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 16:20	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 16:20	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/19/17 16:20*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*07/19/17 16:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 16:20*	*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		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
Acenaphthylene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
Anthracene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
Benzo[a]anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Benzo[a]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Benzo[b]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Benzo[g,h,i]perylene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Benzo[k]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Chrysene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Dibenz(a,h)anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Fluoranthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
Fluorene	ND		0.40	0.042	ug/L		07/17/17 11:07	07/28/17 16:26	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 16:26	2
Phenanthrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
Pyrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
1-Methylnaphthalene	**0.13**	**J**	0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2
2-Methylnaphthalene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*15 - 122*	*07/17/17 11:07*	*07/28/17 16:26*	*2*
Nitrobenzene-d5	*73*		*19 - 130*	*07/17/17 11:07*	*07/28/17 16:26*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217
Date Collected: 07/12/17 10:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-10
Matrix: Water

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		07/17/17 11:07	07/21/17 16:50	1
Benzenethiol	ND	UJ	10	1.7	ug/L		07/17/17 11:07	07/21/17 16:50	1
Benzoic acid	ND		30	7.3	ug/L		07/17/17 11:07	07/21/17 16:50	1
Benzyl alcohol	ND		10	2.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/17/17 11:07	07/21/17 16:50	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/17/17 11:07	07/21/17 16:50	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/17/17 11:07	07/21/17 16:50	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/21/17 16:50	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/17/17 11:07	07/21/17 16:50	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/17/17 11:07	07/21/17 16:50	1
2-Chlorophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Dibenzofuran	ND		10	0.52	ug/L		07/17/17 11:07	07/21/17 16:50	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Diethyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/17/17 11:07	07/21/17 16:50	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/17/17 11:07	07/21/17 16:50	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/21/17 16:50	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/21/17 16:50	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/17/17 11:07	07/21/17 16:50	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/21/17 16:50	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/17/17 11:07	07/21/17 16:50	1
Hexachloroethane	ND		10	4.2	ug/L		07/17/17 11:07	07/21/17 16:50	1
Indene	ND		10	1.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
Isophorone	ND		10	0.57	ug/L		07/17/17 11:07	07/21/17 16:50	1
2-Methylphenol	ND		10	1.8	ug/L		07/17/17 11:07	07/21/17 16:50	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/21/17 16:50	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/21/17 16:50	1
Nitrobenzene	ND		10	0.55	ug/L		07/17/17 11:07	07/21/17 16:50	1
2-Nitrophenol	ND		10	0.65	ug/L		07/17/17 11:07	07/21/17 16:50	1
4-Nitrophenol	ND		10	2.1	ug/L		07/17/17 11:07	07/21/17 16:50	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/21/17 16:50	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/21/17 16:50	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/17/17 11:07	07/21/17 16:50	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/21/17 16:50	1
Phenol	ND	*	10	2.6	ug/L		07/17/17 11:07	07/21/17 16:50	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/21/17 16:50	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW5-ROX-071217
Date Collected: 07/12/17 10:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-10
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		10	6.0	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/17/17 11:07	07/21/17 16:50	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/17/17 11:07	07/21/17 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*34 - 120*	*07/17/17 11:07*	*07/21/17 16:50*	*1*
2-Fluorophenol	*45*		*10 - 120*	*07/17/17 11:07*	*07/21/17 16:50*	*1*
Nitrobenzene-d5	*73*		*27 - 120*	*07/17/17 11:07*	*07/21/17 16:50*	*1*
Phenol-d5	*65*		*10 - 120*	*07/17/17 11:07*	*07/21/17 16:50*	*1*
Terphenyl-d14	*83*		*53 - 125*	*07/17/17 11:07*	*07/21/17 16:50*	*1*
2,4,6-Tribromophenol	*100*		*15 - 135*	*07/17/17 11:07*	*07/21/17 16:50*	*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		07/18/17 09:24	07/25/17 16:48	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*51 - 149*	*07/18/17 09:24*	*07/25/17 16:48*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW3-ROX-071217
Date Collected: 07/12/17 09:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-11
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			07/19/17 16:43	1
Acrolein	ND		20	10	ug/L			07/19/17 16:43	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 16:43	1
Benzene	**0.40**	**J**	1.0	0.38	ug/L			07/19/17 16:43	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 16:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 16:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 16:43	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 16:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 16:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 16:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 16:43	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 16:43	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 16:43	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 16:43	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 16:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 16:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 16:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 16:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 16:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 16:43	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 16:43	1
Isopropylbenzene	**2.6**		1.0	0.53	ug/L			07/19/17 16:43	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 16:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 16:43	1
Methyl tert-butyl ether	**2.8**		1.0	0.74	ug/L			07/19/17 16:43	1
m-Xylene & p-Xylene	**20**		5.0	1.6	ug/L			07/19/17 16:43	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 16:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 16:43	1
N-Propylbenzene	**7.8**		1.0	0.69	ug/L			07/19/17 16:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 16:43	1
o-Xylene	**1.4**	**J**	5.0	0.60	ug/L			07/19/17 16:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 16:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 16:43	1

Client Sample ID: MW3-ROX-071217
Date Collected: 07/12/17 09:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-11
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			07/19/17 16:43	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 16:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 16:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 16:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 16:43	1
Toluene	**4.5**		1.0	0.70	ug/L			07/19/17 16:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 16:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 16:43	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 16:43	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 16:43	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 16:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 16:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 16:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 16:43	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 16:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 16:43	1
Xylenes, Total	**22**		10	1.6	ug/L			07/19/17 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*07/19/17 16:43*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*07/19/17 16:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 16:43*	*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		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
Acenaphthylene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
Anthracene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
Benzo[a]anthracene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Benzo[a]pyrene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Benzo[b]fluoranthene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Benzo[g,h,i]perylene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Benzo[k]fluoranthene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Chrysene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Dibenz(a,h)anthracene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Fluoranthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
Fluorene	ND		0.40	0.042	ug/L		07/17/17 11:07	07/28/17 16:49	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 16:49	2
Phenanthrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
Pyrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
1-Methylnaphthalene	**0.94**		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2
2-Methylnaphthalene	**0.67**		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 16:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*129*	*X*	*15 - 122*	*07/17/17 11:07*	*07/28/17 16:49*	*2*
Nitrobenzene-d5	*95*		*19 - 130*	*07/17/17 11:07*	*07/28/17 16:49*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW3-ROX-071217
Date Collected: 07/12/17 09:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.8	ug/L		07/17/17 11:07	07/20/17 12:34	1
Benzenethiol	ND	UJ	9.9	1.7	ug/L		07/17/17 11:07	07/20/17 12:34	1
Benzoic acid	ND		30	7.2	ug/L		07/17/17 11:07	07/20/17 12:34	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 12:34	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/17/17 11:07	07/20/17 12:34	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/17/17 11:07	07/20/17 12:34	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/17/17 11:07	07/20/17 12:34	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/17/17 11:07	07/20/17 12:34	1
2-Chloronaphthalene	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 12:34	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
Dibenz[a,h]acridine	ND	UJ	9.9	3.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
Dibenzofuran	ND		9.9	0.51	ug/L		07/17/17 11:07	07/20/17 12:34	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 12:34	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/17/17 11:07	07/20/17 12:34	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/17/17 11:07	07/20/17 12:34	1
4,6-Dinitro-ortho-cresol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 12:34	1
Di-n-octyl phthalate	**0.55**	**J**	9.9	0.44	ug/L		07/17/17 11:07	07/20/17 12:34	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 12:34	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 12:34	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/17/17 11:07	07/20/17 12:34	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 12:34	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/17/17 11:07	07/20/17 12:34	1
Indene	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 12:34	1
Isophorone	ND		9.9	0.56	ug/L		07/17/17 11:07	07/20/17 12:34	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 12:34	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 12:34	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 12:34	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/17/17 11:07	07/20/17 12:34	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/17/17 11:07	07/20/17 12:34	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/17/17 11:07	07/20/17 12:34	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/17/17 11:07	07/20/17 12:34	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 12:34	1
N-Nitrosodi-n-propylamine	ND		9.9	3.3	ug/L		07/17/17 11:07	07/20/17 12:34	1
N-Nitrosodiphenylamine	ND		9.9	0.46	ug/L		07/17/17 11:07	07/20/17 12:34	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 12:34	1
Phenol	ND	*	9.9	2.6	ug/L		07/17/17 11:07	07/20/17 12:34	1
Pyridine	ND		9.9	3.2	ug/L		07/17/17 11:07	07/20/17 12:34	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW3-ROX-071217
Date Collected: 07/12/17 09:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.9	5.9	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/17/17 11:07	07/20/17 12:34	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*34 - 120*	*07/17/17 11:07*	*07/20/17 12:34*	*1*
2-Fluorophenol	*64*		*10 - 120*	*07/17/17 11:07*	*07/20/17 12:34*	*1*
Nitrobenzene-d5	*99*		*27 - 120*	*07/17/17 11:07*	*07/20/17 12:34*	*1*
Phenol-d5	*81*		*10 - 120*	*07/17/17 11:07*	*07/20/17 12:34*	*1*
Terphenyl-d14	*94*		*53 - 125*	*07/17/17 11:07*	*07/20/17 12:34*	*1*
2,4,6-Tribromophenol	*142*	*X*	*15 - 135*	*07/17/17 11:07*	*07/20/17 12:34*	*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	*	0.029	0.0053	ug/L		07/18/17 09:24	07/25/17 17:07	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		07/18/17 09:24	07/25/17 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*51 - 149*	*07/18/17 09:24*	*07/25/17 17:07*	*1*

Client Sample ID: MW2-ROX-071217
Date Collected: 07/12/17 12:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-12
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			07/19/17 17:07	1
Acrolein	ND		20	10	ug/L			07/19/17 17:07	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 17:07	1
Benzene	**9.2**		1.0	0.38	ug/L			07/19/17 17:07	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 17:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 17:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 17:07	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 17:07	1
2-Butanone (MEK)	**9.3**	J	25	2.6	ug/L			07/19/17 17:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 17:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 17:07	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 17:07	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 17:07	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 17:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 17:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 17:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 17:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,2-Dichloroethane	**0.85**	J	1.0	0.50	ug/L			07/19/17 17:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Ethylbenzene	**150**		1.0	0.50	ug/L			07/19/17 17:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 17:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 17:07	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 17:07	1
Isopropylbenzene	**60**		1.0	0.53	ug/L			07/19/17 17:07	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 17:07	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 17:07	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 17:07	1
m-Xylene & p-Xylene	**86**		5.0	1.6	ug/L			07/19/17 17:07	1
Naphthalene	**14**		1.0	1.0	ug/L			07/19/17 17:07	1
n-Butylbenzene	**6.2**		1.0	0.76	ug/L			07/19/17 17:07	1
N-Propylbenzene	**79**		1.0	0.69	ug/L			07/19/17 17:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 17:07	1
o-Xylene	**7.3**		5.0	0.60	ug/L			07/19/17 17:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 17:07	1
p-Isopropyltoluene	**6.2**		1.0	0.71	ug/L			07/19/17 17:07	1

Client Sample ID: MW2-ROX-071217
Date Collected: 07/12/17 12:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**5.5**		1.0	0.70	ug/L			07/19/17 17:07	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 17:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 17:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 17:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 17:07	1
Toluene	**8.0**		1.0	0.70	ug/L			07/19/17 17:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 17:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 17:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:07	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 17:07	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 17:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 17:07	1
1,2,4-Trimethylbenzene	**40**		1.0	0.82	ug/L			07/19/17 17:07	1
1,3,5-Trimethylbenzene	**70**		1.0	0.56	ug/L			07/19/17 17:07	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 17:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 17:07	1
Xylenes, Total	**93**		10	1.6	ug/L			07/19/17 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*07/19/17 17:07*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*07/19/17 17:07*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/19/17 17:07*	*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		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
Acenaphthylene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
Anthracene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
Benzo[a]anthracene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Benzo[a]pyrene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Benzo[b]fluoranthene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Benzo[g,h,i]perylene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Benzo[k]fluoranthene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Chrysene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Dibenz(a,h)anthracene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Fluoranthene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
Fluorene	ND		0.39	0.041	ug/L		07/17/17 11:07	07/28/17 17:12	2
Indeno[1,2,3-cd]pyrene	ND		0.39	0.078	ug/L		07/17/17 11:07	07/28/17 17:12	2
Phenanthrene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
Pyrene	ND		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
1-Methylnaphthalene	**10**		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2
2-Methylnaphthalene	**5.7**		0.39	0.039	ug/L		07/17/17 11:07	07/28/17 17:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*15 - 122*	*07/17/17 11:07*	*07/28/17 17:12*	*2*
Nitrobenzene-d5	*105*		*19 - 130*	*07/17/17 11:07*	*07/28/17 17:12*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW2-ROX-071217
Date Collected: 07/12/17 12:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-12
Matrix: Water

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		07/17/17 11:07	07/20/17 13:05	1
Benzenethiol	ND	UJ	9.7	1.6	ug/L		07/17/17 11:07	07/20/17 13:05	1
Benzoic acid	ND		29	7.1	ug/L		07/17/17 11:07	07/20/17 13:05	1
Benzyl alcohol	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 13:05	1
Bis(2-chloroethoxy)methane	ND		9.7	0.67	ug/L		07/17/17 11:07	07/20/17 13:05	1
Bis(2-chloroethyl)ether	ND		9.7	0.72	ug/L		07/17/17 11:07	07/20/17 13:05	1
bis (2-chloroisopropyl) ether	ND		9.7	0.79	ug/L		07/17/17 11:07	07/20/17 13:05	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.2	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Bromophenyl phenyl ether	ND		9.7	0.31	ug/L		07/17/17 11:07	07/20/17 13:05	1
Butyl benzyl phthalate	ND		9.7	0.67	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Chloroaniline	ND		9.7	3.3	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Chloro-3-methylphenol	ND		9.7	3.7	ug/L		07/17/17 11:07	07/20/17 13:05	1
2-Chloronaphthalene	ND		9.7	0.50	ug/L		07/17/17 11:07	07/20/17 13:05	1
2-Chlorophenol	ND		9.7	2.1	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Chlorophenyl phenyl ether	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 13:05	1
Dibenz[a,h]acridine	ND	UJ	9.7	2.9	ug/L		07/17/17 11:07	07/20/17 13:05	1
Dibenzofuran	ND		9.7	0.50	ug/L		07/17/17 11:07	07/20/17 13:05	1
3,3'-Dichlorobenzidine	ND		9.7	2.5	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4-Dichlorophenol	ND		9.7	2.9	ug/L		07/17/17 11:07	07/20/17 13:05	1
Diethyl phthalate	ND		9.7	0.68	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4-Dimethylphenol	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 13:05	1
Dimethyl phthalate	ND		9.7	0.58	ug/L		07/17/17 11:07	07/20/17 13:05	1
Di-n-butyl phthalate	ND		9.7	2.6	ug/L		07/17/17 11:07	07/20/17 13:05	1
4,6-Dinitro-ortho-cresol	ND		9.7	1.9	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4-Dinitrophenol	ND		29	3.3	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4-Dinitrotoluene	ND		9.7	1.8	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		07/17/17 11:07	07/20/17 13:05	1
Di-n-octyl phthalate	**0.48**	**J**	9.7	0.43	ug/L		07/17/17 11:07	07/20/17 13:05	1
1,4-Dioxane	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 13:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 13:05	1
Hexachlorobenzene	ND		9.7	0.24	ug/L		07/17/17 11:07	07/20/17 13:05	1
Hexachlorocyclopentadiene	ND	UJ	19	2.5	ug/L		07/17/17 11:07	07/20/17 13:05	1
Hexachloroethane	ND		9.7	4.1	ug/L		07/17/17 11:07	07/20/17 13:05	1
Indene	ND		9.7	0.97	ug/L		07/17/17 11:07	07/20/17 13:05	1
Isophorone	ND		9.7	0.55	ug/L		07/17/17 11:07	07/20/17 13:05	1
2-Methylphenol	ND		9.7	1.7	ug/L		07/17/17 11:07	07/20/17 13:05	1
3 & 4 Methylphenol	ND		19	1.0	ug/L		07/17/17 11:07	07/20/17 13:05	1
2-Nitroaniline	ND		9.7	2.1	ug/L		07/17/17 11:07	07/20/17 13:05	1
3-Nitroaniline	ND		9.7	1.7	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Nitroaniline	ND		9.7	2.4	ug/L		07/17/17 11:07	07/20/17 13:05	1
Nitrobenzene	ND		9.7	0.53	ug/L		07/17/17 11:07	07/20/17 13:05	1
2-Nitrophenol	ND		9.7	0.63	ug/L		07/17/17 11:07	07/20/17 13:05	1
4-Nitrophenol	ND		9.7	2.0	ug/L		07/17/17 11:07	07/20/17 13:05	1
N-Nitrosodimethylamine	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 13:05	1
N-Nitrosodi-n-propylamine	ND		9.7	3.2	ug/L		07/17/17 11:07	07/20/17 13:05	1
N-Nitrosodiphenylamine	ND		9.7	0.46	ug/L		07/17/17 11:07	07/20/17 13:05	1
Pentachlorophenol	ND		19	1.8	ug/L		07/17/17 11:07	07/20/17 13:05	1
Phenol	ND	*	9.7	2.5	ug/L		07/17/17 11:07	07/20/17 13:05	1
Pyridine	ND		9.7	3.1	ug/L		07/17/17 11:07	07/20/17 13:05	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW2-ROX-071217
Date Collected: 07/12/17 12:45
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.7	5.8	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4,5-Trichlorophenol	ND		9.7	3.6	ug/L		07/17/17 11:07	07/20/17 13:05	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		07/17/17 11:07	07/20/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 120*	*07/17/17 11:07*	*07/20/17 13:05*	*1*
2-Fluorophenol	*49*		*10 - 120*	*07/17/17 11:07*	*07/20/17 13:05*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*07/17/17 11:07*	*07/20/17 13:05*	*1*
Phenol-d5	*57*		*10 - 120*	*07/17/17 11:07*	*07/20/17 13:05*	*1*
Terphenyl-d14	*69*		*53 - 125*	*07/17/17 11:07*	*07/20/17 13:05*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*07/17/17 11:07*	*07/20/17 13:05*	*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		07/18/17 09:24	07/25/17 17:25	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*51 - 149*	*07/18/17 09:24*	*07/25/17 17:25*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW28-ROX-071217
Date Collected: 07/12/17 13:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-13
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			07/19/17 17:30	1
Acrolein	ND		20	10	ug/L			07/19/17 17:30	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 17:30	1
Benzene	**0.67**	**J**	1.0	0.38	ug/L			07/19/17 17:30	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 17:30	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 17:30	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 17:30	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 17:30	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 17:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 17:30	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 17:30	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 17:30	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 17:30	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 17:30	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 17:30	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 17:30	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 17:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Ethylbenzene	**0.63**	**J**	1.0	0.50	ug/L			07/19/17 17:30	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 17:30	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 17:30	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 17:30	1
Isopropylbenzene	**2.5**		1.0	0.53	ug/L			07/19/17 17:30	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 17:30	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 17:30	1
Methyl tert-butyl ether	**3.0**		1.0	0.74	ug/L			07/19/17 17:30	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 17:30	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 17:30	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 17:30	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 17:30	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 17:30	1
o-Xylene	**0.92**	**J**	5.0	0.60	ug/L			07/19/17 17:30	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 17:30	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 17:30	1

Client Sample ID: MW28-ROX-071217
Date Collected: 07/12/17 13:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-13
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			07/19/17 17:30	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 17:30	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 17:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 17:30	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 17:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 17:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 17:30	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:30	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 17:30	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 17:30	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 17:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 17:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 17:30	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 17:30	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 17:30	1
Xylenes, Total	**1.7**	**J**	10	1.6	ug/L			07/19/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*07/19/17 17:30*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*07/19/17 17:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/19/17 17:30*	*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		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
Acenaphthylene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
Anthracene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
Benzo[a]anthracene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Benzo[a]pyrene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Benzo[b]fluoranthene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Benzo[g,h,i]perylene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Benzo[k]fluoranthene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Chrysene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Dibenz(a,h)anthracene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Fluoranthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
Fluorene	ND		0.40	0.042	ug/L		07/17/17 11:07	07/28/17 17:35	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.079	ug/L		07/17/17 11:07	07/28/17 17:35	2
Phenanthrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
Pyrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
1-Methylnaphthalene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2
2-Methylnaphthalene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 17:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*158*	*X*	*15 - 122*	*07/17/17 11:07*	*07/28/17 17:35*	*2*
Nitrobenzene-d5	*127*		*19 - 130*	*07/17/17 11:07*	*07/28/17 17:35*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW28-ROX-071217
Date Collected: 07/12/17 13:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-13
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.8	ug/L		07/17/17 11:07	07/20/17 13:35	1
Benzenethiol	ND	UJ	9.9	1.7	ug/L		07/17/17 11:07	07/20/17 13:35	1
Benzoic acid	ND		30	7.2	ug/L		07/17/17 11:07	07/20/17 13:35	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
Bis(2-chloroethoxy)methane	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 13:35	1
Bis(2-chloroethyl)ether	ND		9.9	0.73	ug/L		07/17/17 11:07	07/20/17 13:35	1
bis (2-chloroisopropyl) ether	ND		9.9	0.80	ug/L		07/17/17 11:07	07/20/17 13:35	1
Bis(2-ethylhexyl) phthalate	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/17/17 11:07	07/20/17 13:35	1
Butyl benzyl phthalate	ND		9.9	0.68	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/17/17 11:07	07/20/17 13:35	1
2-Chloronaphthalene	ND		9.9	0.52	ug/L		07/17/17 11:07	07/20/17 13:35	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
Dibenz[a,h]acridine	ND	UJ	9.9	3.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
Dibenzofuran	ND		9.9	0.52	ug/L		07/17/17 11:07	07/20/17 13:35	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4-Dichlorophenol	ND		9.9	3.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
Diethyl phthalate	ND		9.9	0.69	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4-Dimethylphenol	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 13:35	1
Dimethyl phthalate	ND		9.9	0.59	ug/L		07/17/17 11:07	07/20/17 13:35	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/17/17 11:07	07/20/17 13:35	1
4,6-Dinitro-ortho-cresol	ND		9.9	2.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/17/17 11:07	07/20/17 13:35	1
Di-n-octyl phthalate	0.49	J	9.9	0.44	ug/L		07/17/17 11:07	07/20/17 13:35	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 13:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 13:35	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/17/17 11:07	07/20/17 13:35	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 13:35	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/17/17 11:07	07/20/17 13:35	1
Indene	ND		9.9	0.99	ug/L		07/17/17 11:07	07/20/17 13:35	1
Isophorone	ND		9.9	0.56	ug/L		07/17/17 11:07	07/20/17 13:35	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 13:35	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 13:35	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/17/17 11:07	07/20/17 13:35	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/17/17 11:07	07/20/17 13:35	1
Nitrobenzene	ND		9.9	0.54	ug/L		07/17/17 11:07	07/20/17 13:35	1
2-Nitrophenol	ND		9.9	0.64	ug/L		07/17/17 11:07	07/20/17 13:35	1
4-Nitrophenol	ND		9.9	2.1	ug/L		07/17/17 11:07	07/20/17 13:35	1
N-Nitrosodimethylamine	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 13:35	1
N-Nitrosodi-n-propylamine	ND		9.9	3.3	ug/L		07/17/17 11:07	07/20/17 13:35	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/17/17 11:07	07/20/17 13:35	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 13:35	1
Phenol	ND	*	9.9	2.6	ug/L		07/17/17 11:07	07/20/17 13:35	1
Pyridine	ND		9.9	3.2	ug/L		07/17/17 11:07	07/20/17 13:35	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW28-ROX-071217
Date Collected: 07/12/17 13:35
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-13
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		9.9	5.9	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/17/17 11:07	07/20/17 13:35	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/17/17 11:07	07/20/17 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*34 - 120*	*07/17/17 11:07*	*07/20/17 13:35*	*1*
2-Fluorophenol	*74*		*10 - 120*	*07/17/17 11:07*	*07/20/17 13:35*	*1*
Nitrobenzene-d5	*112*		*27 - 120*	*07/17/17 11:07*	*07/20/17 13:35*	*1*
Phenol-d5	*94*		*10 - 120*	*07/17/17 11:07*	*07/20/17 13:35*	*1*
Terphenyl-d14	*145*	*X*	*53 - 125*	*07/17/17 11:07*	*07/20/17 13:35*	*1*
2,4,6-Tribromophenol	*166*	*X*	*15 - 135*	*07/17/17 11:07*	*07/20/17 13:35*	*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	0.0054	ug/L		07/18/17 09:24	07/25/17 17:44	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:24	07/25/17 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*51 - 149*	*07/18/17 09:24*	*07/25/17 17:44*	*1*

Client Sample ID: ROST4PZC-ROX-071217
Date Collected: 07/12/17 14:25
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-14
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			07/19/17 17:54	1
Acrolein	ND		20	10	ug/L			07/19/17 17:54	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 17:54	1
Benzene	**17**		1.0	0.38	ug/L			07/19/17 17:54	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 17:54	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 17:54	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 17:54	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 17:54	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 17:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 17:54	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 17:54	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 17:54	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 17:54	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 17:54	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:54	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 17:54	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 17:54	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 17:54	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,2-Dichloroethane	**0.84**	**J**	1.0	0.50	ug/L			07/19/17 17:54	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Ethylbenzene	**130**		1.0	0.50	ug/L			07/19/17 17:54	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 17:54	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 17:54	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 17:54	1
Isopropylbenzene	**6.4**		1.0	0.53	ug/L			07/19/17 17:54	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 17:54	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 17:54	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 17:54	1
m-Xylene & p-Xylene	**240**		5.0	1.6	ug/L			07/19/17 17:54	1
Naphthalene	**98**		1.0	1.0	ug/L			07/19/17 17:54	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 17:54	1
N-Propylbenzene	**9.7**		1.0	0.69	ug/L			07/19/17 17:54	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 17:54	1
o-Xylene	**3.5**	**J**	5.0	0.60	ug/L			07/19/17 17:54	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 17:54	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 17:54	1

Client Sample ID: ROST4PZC-ROX-071217
Date Collected: 07/12/17 14:25
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-14
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			07/19/17 17:54	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 17:54	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 17:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 17:54	1
Toluene	**17**		1.0	0.70	ug/L			07/19/17 17:54	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 17:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 17:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 17:54	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 17:54	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 17:54	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 17:54	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 17:54	1
1,2,4-Trimethylbenzene	**44**		1.0	0.82	ug/L			07/19/17 17:54	1
1,3,5-Trimethylbenzene	**14**		1.0	0.56	ug/L			07/19/17 17:54	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 17:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 17:54	1
Xylenes, Total	**240**		10	1.6	ug/L			07/19/17 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*07/19/17 17:54*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 17:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 17:54*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.24**		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
Anthracene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Chrysene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Fluoranthene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
Fluorene	**0.13**	**J**	0.20	0.021	ug/L		07/17/17 11:07	07/27/17 22:28	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/17/17 11:07	07/27/17 22:28	1
Phenanthrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
Pyrene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
1-Methylnaphthalene	**0.14**	**J**	0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/17/17 11:07	07/27/17 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*15 - 122*	*07/17/17 11:07*	*07/27/17 22:28*	*1*
Nitrobenzene-d5	*46*		*19 - 130*	*07/17/17 11:07*	*07/27/17 22:28*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: ROST4PZC-ROX-071217
Date Collected: 07/12/17 14:25
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-14
Matrix: Water

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		07/17/17 11:07	07/20/17 14:05	1
Benzenethiol	ND	UJ	10	1.7	ug/L		07/17/17 11:07	07/20/17 14:05	1
Benzoic acid	ND	UJ	30	7.3	ug/L		07/17/17 11:07	07/20/17 14:05	1
Benzyl alcohol	ND	UJ	10	2.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/17/17 11:07	07/20/17 14:05	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/17/17 11:07	07/20/17 14:05	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/17/17 11:07	07/20/17 14:05	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/20/17 14:05	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Chloro-3-methylphenol	ND	UJ	10	3.8	ug/L		07/17/17 11:07	07/20/17 14:05	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/17/17 11:07	07/20/17 14:05	1
2-Chlorophenol	ND	UJ	10	2.2	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Dibenz[a,h]acridine	ND	UJ	10	3.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Dibenzofuran	ND		10	0.52	ug/L		07/17/17 11:07	07/20/17 14:05	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4-Dichlorophenol	ND	UJ	10	3.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Diethyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4-Dimethylphenol	ND	UJ	10	3.5	ug/L		07/17/17 11:07	07/20/17 14:05	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/17/17 11:07	07/20/17 14:05	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/20/17 14:05	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4-Dinitrophenol	ND	UJ	30	3.4	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 14:05	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/17/17 11:07	07/20/17 14:05	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/20/17 14:05	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 14:05	1
Hexachloroethane	ND		10	4.2	ug/L		07/17/17 11:07	07/20/17 14:05	1
Indene	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
Isophorone	ND		10	0.57	ug/L		07/17/17 11:07	07/20/17 14:05	1
2-Methylphenol	ND	UJ	10	1.8	ug/L		07/17/17 11:07	07/20/17 14:05	1
3 & 4 Methylphenol	**2.6**	**J** J	20	1.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 14:05	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/20/17 14:05	1
Nitrobenzene	ND		10	0.55	ug/L		07/17/17 11:07	07/20/17 14:05	1
2-Nitrophenol	ND	UJ	10	0.65	ug/L		07/17/17 11:07	07/20/17 14:05	1
4-Nitrophenol	ND	UJ	10	2.1	ug/L		07/17/17 11:07	07/20/17 14:05	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 14:05	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/20/17 14:05	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/17/17 11:07	07/20/17 14:05	1
Pentachlorophenol	ND	UJ	20	1.8	ug/L		07/17/17 11:07	07/20/17 14:05	1
Phenol	ND	* UJ	10	2.6	ug/L		07/17/17 11:07	07/20/17 14:05	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/20/17 14:05	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: ROST4PZC-ROX-071217
Date Collected: 07/12/17 14:25
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-14
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		10	6.0	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4,5-Trichlorophenol	ND	UJ	10	3.7	ug/L		07/17/17 11:07	07/20/17 14:05	1
2,4,6-Trichlorophenol	ND	UJ	10	3.5	ug/L		07/17/17 11:07	07/20/17 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*34 - 120*	*07/17/17 11:07*	*07/20/17 14:05*	*1*
2-Fluorophenol	*5*	*X*	*10 - 120*	*07/17/17 11:07*	*07/20/17 14:05*	*1*
Nitrobenzene-d5	*44*		*27 - 120*	*07/17/17 11:07*	*07/20/17 14:05*	*1*
Phenol-d5	*15*		*10 - 120*	*07/17/17 11:07*	*07/20/17 14:05*	*1*
Terphenyl-d14	*54*		*53 - 125*	*07/17/17 11:07*	*07/20/17 14:05*	*1*
2,4,6-Tribromophenol	*14*	*X*	*15 - 135*	*07/17/17 11:07*	*07/20/17 14:05*	*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		07/18/17 09:24	07/25/17 18:02	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*51 - 149*	*07/18/17 09:24*	*07/25/17 18:02*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW22-ROX-071217
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-15
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			07/19/17 18:41	2
Acrolein	ND		40	20	ug/L			07/19/17 18:41	2
Acrylonitrile	ND		20	5.6	ug/L			07/19/17 18:41	2
Benzene	**7.9**		2.0	0.76	ug/L			07/19/17 18:41	2
Bromobenzene	ND		2.0	1.1	ug/L			07/19/17 18:41	2
Bromochloromethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Bromodichloromethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Bromoform	ND		10	1.4	ug/L			07/19/17 18:41	2
Bromomethane	ND		2.0	2.0	ug/L			07/19/17 18:41	2
2-Butanone (MEK)	ND		50	5.2	ug/L			07/19/17 18:41	2
Carbon disulfide	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Chlorobenzene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Dibromochloromethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Chloroethane	ND		2.0	1.5	ug/L			07/19/17 18:41	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			07/19/17 18:41	2
Chloroform	ND		2.0	1.2	ug/L			07/19/17 18:41	2
1-Chlorohexane	ND		2.0	1.4	ug/L			07/19/17 18:41	2
Chloromethane	ND		2.0	1.7	ug/L			07/19/17 18:41	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			07/19/17 18:41	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			07/19/17 18:41	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			07/19/17 18:41	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			07/19/17 18:41	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Ethylbenzene	**170**		2.0	1.0	ug/L			07/19/17 18:41	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			07/19/17 18:41	2
Hexachlorobutadiene	ND		10	1.8	ug/L			07/19/17 18:41	2
2-Hexanone	ND		50	6.2	ug/L			07/19/17 18:41	2
Isopropylbenzene	**9.2**		2.0	1.1	ug/L			07/19/17 18:41	2
Methylene bromide	ND		10	1.2	ug/L			07/19/17 18:41	2
Methylene Chloride	ND		10	6.0	ug/L			07/19/17 18:41	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			07/19/17 18:41	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			07/19/17 18:41	2
m-Xylene & p-Xylene	**270**		10	3.2	ug/L			07/19/17 18:41	2
Naphthalene	**31**		2.0	2.0	ug/L			07/19/17 18:41	2
n-Butylbenzene	ND		2.0	1.5	ug/L			07/19/17 18:41	2
N-Propylbenzene	**12**		2.0	1.4	ug/L			07/19/17 18:41	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			07/19/17 18:41	2
o-Xylene	**130**		10	1.2	ug/L			07/19/17 18:41	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			07/19/17 18:41	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			07/19/17 18:41	2

Client Sample ID: MW22-ROX-071217
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-15
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			07/19/17 18:41	2
Styrene	ND		2.0	2.0	ug/L			07/19/17 18:41	2
tert-Butylbenzene	ND		2.0	1.3	ug/L			07/19/17 18:41	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Tetrachloroethene	ND		2.0	1.2	ug/L			07/19/17 18:41	2
Toluene	**17**		2.0	1.4	ug/L			07/19/17 18:41	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			07/19/17 18:41	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			07/19/17 18:41	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			07/19/17 18:41	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			07/19/17 18:41	2
Trichloroethene	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			07/19/17 18:41	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			07/19/17 18:41	2
1,2,4-Trimethylbenzene	**63**		2.0	1.6	ug/L			07/19/17 18:41	2
1,3,5-Trimethylbenzene	**18**		2.0	1.1	ug/L			07/19/17 18:41	2
Vinyl acetate	ND		50	4.0	ug/L			07/19/17 18:41	2
Vinyl chloride	ND		2.0	1.0	ug/L			07/19/17 18:41	2
Xylenes, Total	**400**		20	3.2	ug/L			07/19/17 18:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*07/19/17 18:41*	*2*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 18:41*	*2*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 18:41*	*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		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
Acenaphthylene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
Anthracene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
Benzo[a]anthracene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Benzo[a]pyrene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Benzo[b]fluoranthene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Benzo[g,h,i]perylene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Benzo[k]fluoranthene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Chrysene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Dibenz(a,h)anthracene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Fluoranthene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
Fluorene	ND		0.41	0.043	ug/L		07/17/17 11:07	07/28/17 17:59	2
Indeno[1,2,3-cd]pyrene	ND		0.41	0.081	ug/L		07/17/17 11:07	07/28/17 17:59	2
Phenanthrene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
Pyrene	ND		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
1-Methylnaphthalene	**5.0**		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2
2-Methylnaphthalene	**6.5**		0.41	0.041	ug/L		07/17/17 11:07	07/28/17 17:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*15 - 122*	*07/17/17 11:07*	*07/28/17 17:59*	*2*
Nitrobenzene-d5	*75*		*19 - 130*	*07/17/17 11:07*	*07/28/17 17:59*	*2*

Client Sample ID: MW22-ROX-071217
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-15
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.9	ug/L		07/17/17 11:07	07/20/17 14:35	1
Benzenethiol	ND	UJ	10	1.7	ug/L		07/17/17 11:07	07/20/17 14:35	1
Benzoic acid	ND		30	7.4	ug/L		07/17/17 11:07	07/20/17 14:35	1
Benzyl alcohol	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Bis(2-chloroethoxy)methane	ND		10	0.70	ug/L		07/17/17 11:07	07/20/17 14:35	1
Bis(2-chloroethyl)ether	ND		10	0.75	ug/L		07/17/17 11:07	07/20/17 14:35	1
bis (2-chloroisopropyl) ether	ND		10	0.82	ug/L		07/17/17 11:07	07/20/17 14:35	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/20/17 14:35	1
Butyl benzyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Chloro-3-methylphenol	ND		10	3.9	ug/L		07/17/17 11:07	07/20/17 14:35	1
2-Chloronaphthalene	ND		10	0.53	ug/L		07/17/17 11:07	07/20/17 14:35	1
2-Chlorophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Dibenz[a,h]acridine	ND	UJ	10	3.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Dibenzofuran	ND		10	0.53	ug/L		07/17/17 11:07	07/20/17 14:35	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Diethyl phthalate	ND		10	0.71	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 14:35	1
Dimethyl phthalate	ND		10	0.61	ug/L		07/17/17 11:07	07/20/17 14:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/20/17 14:35	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 14:35	1
Di-n-octyl phthalate	ND		10	0.45	ug/L		07/17/17 11:07	07/20/17 14:35	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/20/17 14:35	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 14:35	1
Hexachloroethane	ND		10	4.3	ug/L		07/17/17 11:07	07/20/17 14:35	1
Indene	**4.7**	**J**	10	1.0	ug/L		07/17/17 11:07	07/20/17 14:35	1
Isophorone	ND		10	0.58	ug/L		07/17/17 11:07	07/20/17 14:35	1
2-Methylphenol	ND		10	1.8	ug/L		07/17/17 11:07	07/20/17 14:35	1
3 & 4 Methylphenol	ND		20	1.1	ug/L		07/17/17 11:07	07/20/17 14:35	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 14:35	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/20/17 14:35	1
Nitrobenzene	ND		10	0.56	ug/L		07/17/17 11:07	07/20/17 14:35	1
2-Nitrophenol	ND		10	0.66	ug/L		07/17/17 11:07	07/20/17 14:35	1
4-Nitrophenol	ND		10	2.1	ug/L		07/17/17 11:07	07/20/17 14:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 14:35	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/20/17 14:35	1
N-Nitrosodiphenylamine	ND		10	0.48	ug/L		07/17/17 11:07	07/20/17 14:35	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 14:35	1
Phenol	ND	*	10	2.6	ug/L		07/17/17 11:07	07/20/17 14:35	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/20/17 14:35	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW22-ROX-071217
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-15
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		10	6.1	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/17/17 11:07	07/20/17 14:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 120*	*07/17/17 11:07*	*07/20/17 14:35*	*1*
2-Fluorophenol	*36*		*10 - 120*	*07/17/17 11:07*	*07/20/17 14:35*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*07/17/17 11:07*	*07/20/17 14:35*	*1*
Phenol-d5	*49*		*10 - 120*	*07/17/17 11:07*	*07/20/17 14:35*	*1*
Terphenyl-d14	*43*	*X*	*53 - 125*	*07/17/17 11:07*	*07/20/17 14:35*	*1*
2,4,6-Tribromophenol	*92*		*15 - 135*	*07/17/17 11:07*	*07/20/17 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	0.0055	ug/L		07/18/17 09:24	07/25/17 18:21	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*51 - 149*	*07/18/17 09:24*	*07/25/17 18:21*	*1*

Client Sample ID: MW22-ROX-071217-DUP
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-16
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			07/19/17 19:04	2
Acrolein	ND		40	20	ug/L			07/19/17 19:04	2
Acrylonitrile	ND		20	5.6	ug/L			07/19/17 19:04	2
Benzene	**6.8**		2.0	0.76	ug/L			07/19/17 19:04	2
Bromobenzene	ND		2.0	1.1	ug/L			07/19/17 19:04	2
Bromochloromethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Bromodichloromethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Bromoform	ND		10	1.4	ug/L			07/19/17 19:04	2
Bromomethane	ND		2.0	2.0	ug/L			07/19/17 19:04	2
2-Butanone (MEK)	ND		50	5.2	ug/L			07/19/17 19:04	2
Carbon disulfide	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Chlorobenzene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Dibromochloromethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Chloroethane	ND		2.0	1.5	ug/L			07/19/17 19:04	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			07/19/17 19:04	2
Chloroform	ND		2.0	1.2	ug/L			07/19/17 19:04	2
1-Chlorohexane	ND		2.0	1.4	ug/L			07/19/17 19:04	2
Chloromethane	ND		2.0	1.7	ug/L			07/19/17 19:04	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			07/19/17 19:04	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			07/19/17 19:04	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			07/19/17 19:04	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			07/19/17 19:04	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Ethylbenzene	**150**		2.0	1.0	ug/L			07/19/17 19:04	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			07/19/17 19:04	2
Hexachlorobutadiene	ND		10	1.8	ug/L			07/19/17 19:04	2
2-Hexanone	ND		50	6.2	ug/L			07/19/17 19:04	2
Isopropylbenzene	**8.8**		2.0	1.1	ug/L			07/19/17 19:04	2
Methylene bromide	ND		10	1.2	ug/L			07/19/17 19:04	2
Methylene Chloride	ND		10	6.0	ug/L			07/19/17 19:04	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			07/19/17 19:04	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			07/19/17 19:04	2
m-Xylene & p-Xylene	**230**		10	3.2	ug/L			07/19/17 19:04	2
Naphthalene	**29**		2.0	2.0	ug/L			07/19/17 19:04	2
n-Butylbenzene	ND		2.0	1.5	ug/L			07/19/17 19:04	2
N-Propylbenzene	**11**		2.0	1.4	ug/L			07/19/17 19:04	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			07/19/17 19:04	2
o-Xylene	**110**		10	1.2	ug/L			07/19/17 19:04	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			07/19/17 19:04	2
p-Isopropyltoluene	ND		2.0	1.4	ug/L			07/19/17 19:04	2

Client Sample ID: MW22-ROX-071217-DUP

Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-16

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			07/19/17 19:04	2
Styrene	ND		2.0	2.0	ug/L			07/19/17 19:04	2
tert-Butylbenzene	ND		2.0	1.3	ug/L			07/19/17 19:04	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Tetrachloroethene	ND		2.0	1.2	ug/L			07/19/17 19:04	2
Toluene	**15**		2.0	1.4	ug/L			07/19/17 19:04	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			07/19/17 19:04	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			07/19/17 19:04	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			07/19/17 19:04	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			07/19/17 19:04	2
Trichloroethene	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			07/19/17 19:04	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			07/19/17 19:04	2
1,2,4-Trimethylbenzene	**52**		2.0	1.6	ug/L			07/19/17 19:04	2
1,3,5-Trimethylbenzene	**15**		2.0	1.1	ug/L			07/19/17 19:04	2
Vinyl acetate	ND		50	4.0	ug/L			07/19/17 19:04	2
Vinyl chloride	ND		2.0	1.0	ug/L			07/19/17 19:04	2
Xylenes, Total	**340**		20	3.2	ug/L			07/19/17 19:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*07/19/17 19:04*	*2*
Dibromofluoromethane	*99*		*81 - 121*		*07/19/17 19:04*	*2*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 19:04*	*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		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
Acenaphthylene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
Anthracene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
Benzo[a]anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Benzo[a]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Benzo[b]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Benzo[g,h,i]perylene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Benzo[k]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Chrysene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Dibenz(a,h)anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Fluoranthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
Fluorene	ND		0.40	0.042	ug/L		07/17/17 11:07	07/28/17 18:22	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 18:22	2
Phenanthrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
Pyrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
1-Methylnaphthalene	**5.3**		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2
2-Methylnaphthalene	**7.1**		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 18:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*15 - 122*	*07/17/17 11:07*	*07/28/17 18:22*	*2*
Nitrobenzene-d5	*94*		*19 - 130*	*07/17/17 11:07*	*07/28/17 18:22*	*2*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW22-ROX-071217-DUP
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-16
Matrix: Water

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		07/17/17 11:07	07/20/17 15:05	1
Benzenethiol	ND	UJ	10	1.7	ug/L		07/17/17 11:07	07/20/17 15:05	1
Benzoic acid	ND		30	7.3	ug/L		07/17/17 11:07	07/20/17 15:05	1
Benzyl alcohol	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/17/17 11:07	07/20/17 15:05	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/17/17 11:07	07/20/17 15:05	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/17/17 11:07	07/20/17 15:05	1
Bis(2-ethylhexyl) phthalate	ND	* UJ	10	2.3	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/20/17 15:05	1
Butyl benzyl phthalate	ND	* UJ	10	0.69	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/17/17 11:07	07/20/17 15:05	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/17/17 11:07	07/20/17 15:05	1
2-Chlorophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Dibenz[a,h]acridine	ND	* UJ	10	3.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Dibenzofuran	ND		10	0.52	ug/L		07/17/17 11:07	07/20/17 15:05	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Diethyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4-Dimethylphenol	**6.9**	**J**	10	3.5	ug/L		07/17/17 11:07	07/20/17 15:05	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/17/17 11:07	07/20/17 15:05	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/20/17 15:05	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/20/17 15:05	1
Di-n-octyl phthalate	ND	* UJ	10	0.44	ug/L		07/17/17 11:07	07/20/17 15:05	1
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/20/17 15:05	1
Hexachlorocyclopentadiene	ND	UJ	20	2.6	ug/L		07/17/17 11:07	07/20/17 15:05	1
Hexachloroethane	ND		10	4.2	ug/L		07/17/17 11:07	07/20/17 15:05	1
Indene	**4.8**	**J**	10	1.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
Isophorone	ND		10	0.57	ug/L		07/17/17 11:07	07/20/17 15:05	1
2-Methylphenol	ND		10	1.8	ug/L		07/17/17 11:07	07/20/17 15:05	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/20/17 15:05	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/20/17 15:05	1
Nitrobenzene	ND		10	0.55	ug/L		07/17/17 11:07	07/20/17 15:05	1
2-Nitrophenol	ND		10	0.65	ug/L		07/17/17 11:07	07/20/17 15:05	1
4-Nitrophenol	ND		10	2.1	ug/L		07/17/17 11:07	07/20/17 15:05	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 15:05	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/20/17 15:05	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/17/17 11:07	07/20/17 15:05	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/20/17 15:05	1
Phenol	ND	*	10	2.6	ug/L		07/17/17 11:07	07/20/17 15:05	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/20/17 15:05	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: MW22-ROX-071217-DUP
Date Collected: 07/12/17 15:20
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-16
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Quinoline	ND		10	6.0	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/17/17 11:07	07/20/17 15:05	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/17/17 11:07	07/20/17 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*07/17/17 11:07*	*07/20/17 15:05*	*1*
2-Fluorophenol	*38*		*10 - 120*	*07/17/17 11:07*	*07/20/17 15:05*	*1*
Nitrobenzene-d5	*66*		*27 - 120*	*07/17/17 11:07*	*07/20/17 15:05*	*1*
Phenol-d5	*55*		*10 - 120*	*07/17/17 11:07*	*07/20/17 15:05*	*1*
Terphenyl-d14	*69*	*	*53 - 125*	*07/17/17 11:07*	*07/20/17 15:05*	*1*
2,4,6-Tribromophenol	*106*		*15 - 135*	*07/17/17 11:07*	*07/20/17 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	0.0054	ug/L		07/18/17 09:24	07/25/17 18:39	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		07/18/17 09:24	07/25/17 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*51 - 149*	*07/18/17 09:24*	*07/25/17 18:39*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: TB-ROX-07172017-8260-A
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-17
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			07/19/17 12:47	1
Acrolein	ND		20	10	ug/L			07/19/17 12:47	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 12:47	1
Benzene	ND		1.0	0.38	ug/L			07/19/17 12:47	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 12:47	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 12:47	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 12:47	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 12:47	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 12:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 12:47	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 12:47	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 12:47	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 12:47	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 12:47	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 12:47	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 12:47	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 12:47	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 12:47	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 12:47	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 12:47	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 12:47	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 12:47	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 12:47	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 12:47	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 12:47	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 12:47	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 12:47	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 12:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 12:47	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 12:47	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 12:47	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 12:47	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/19/17 12:47	1

Client Sample ID: TB-ROX-07172017-8260-A
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-17
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			07/19/17 12:47	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 12:47	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 12:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 12:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 12:47	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 12:47	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 12:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 12:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 12:47	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 12:47	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 12:47	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 12:47	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 12:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 12:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 12:47	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 12:47	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 12:47	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*07/19/17 12:47*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 12:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 12:47*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Client Sample ID: TB-ROX-07172017-8011-A
Date Collected: 07/12/17 00:00
Date Received: 07/13/17 08:10

Lab Sample ID: 400-140528-18
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		07/18/17 09:24	07/25/17 18:58	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*123*		*51 - 149*	*07/18/17 09:24*	*07/25/17 18:58*	*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
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
*	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 400-140528-1

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)
400-140392-B-13 MS	Matrix Spike	91	99	96
400-140392-B-13 MSD	Matrix Spike Duplicate	88	102	94
400-140528-1	P66-ROX-071217	98	98	98
400-140528-2	P93C-ROX-071217	96	100	98
400-140528-2 MS	P93C-ROX-071217	96	103	95
400-140528-2 MSD	P93C-ROX-071217	96	101	96
400-140528-3	P74-ROX-071217	94	92	98
400-140528-4	P56-ROX-071217-EB	94	100	98
400-140528-5	P56-ROX-071217	99	101	96
400-140528-6	TB-ROX-071217-8260	98	100	99
400-140528-8	MW9-ROX-071217	96	99	97
400-140528-9	MW5-ROX-071217-EB	92	93	93
400-140528-10	MW5-ROX-071217	99	97	98
400-140528-11	MW3-ROX-071217	102	98	97
400-140528-12	MW2-ROX-071217	96	99	96
400-140528-13	MW28-ROX-071217	99	101	96
400-140528-14	ROST4PZC-ROX-071217	96	100	97
400-140528-15	MW22-ROX-071217	101	100	97
400-140528-16	MW22-ROX-071217-DUP	100	99	97
400-140528-17	TB-ROX-07172017-8260-A	97	100	98
LCS 400-360958/1002	Lab Control Sample	95	102	95
LCS 400-361425/1002	Lab Control Sample	91	101	96
MB 400-360958/5	Method Blank	95	100	97
MB 400-361425/28	Method Blank	90	93	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)
400-140528-1	P66-ROX-071217	77	46	77	66	92	99
400-140528-2	P93C-ROX-071217	82	46	80	65	104	120
400-140528-3	P74-ROX-071217	61	26	55	39	88	104
400-140528-4	P56-ROX-071217-EB	81	48	75	67	98	25
400-140528-5	P56-ROX-071217	104	63	93	94	64	152 X
400-140528-8	MW9-ROX-071217	86	53	74	70	110	86
400-140528-9	MW5-ROX-071217-EB	87	55	79	74	111	82
400-140528-10	MW5-ROX-071217	80	45	73	65	83	100
400-140528-11	MW3-ROX-071217	100	64	99	81	94	142 X
400-140528-12	MW2-ROX-071217	74	49	72	57	69	107
400-140528-13	MW28-ROX-071217	112	74	112	94	145 X	166 X
400-140528-14	ROST4PZC-ROX-071217	45	5 X	44	15	54	14 X
400-140528-15	MW22-ROX-071217	65	36	60	49	43 X	92

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (34-120)	2FP (10-120)	NBZ (27-120)	PHL (10-120)	TPH (53-125)	TBP (15-135)
400-140528-16	MW22-ROX-071217-DUP	76	38	66	55	69 *	106
LCS 400-360696/2-A	Lab Control Sample	90	46	86	54	118	104
LCS 400-360696/4-A	Lab Control Sample	86	58	86	74	102	89
LCSD 400-360696/3-A	Lab Control Sample Dup	93	58	87	78	117	106
LCSD 400-360696/5-A	Lab Control Sample Dup	69	37	63	53	100	71
MB 400-360696/1-A	Method Blank	90	54	88	74	102	108

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)		
Lab Sample ID	Client Sample ID	TPH (33-138)	FBP (15-122)	NBZ (19-130)
400-140528-1	P66-ROX-071217	150 X	22 *	96
400-140528-1 - RERA	P66-ROX-071217	31 X	67	66
400-140528-2	P93C-ROX-071217		115	85
400-140528-3	P74-ROX-071217		91	58
400-140528-4	P56-ROX-071217-EB		119	83
400-140528-5	P56-ROX-071217		107	112
400-140528-8	MW9-ROX-071217		112	74
400-140528-9	MW5-ROX-071217-EB		107	77
400-140528-10	MW5-ROX-071217		101	73
400-140528-11	MW3-ROX-071217		129 X	95
400-140528-12	MW2-ROX-071217		75	105
400-140528-13	MW28-ROX-071217		158 X	127
400-140528-14	ROST4PZC-ROX-071217		61	46
400-140528-15	MW22-ROX-071217		72	75
400-140528-16	MW22-ROX-071217-DUP		97	94
LCS 400-360696/2-A	Lab Control Sample		102	61
LCS 400-362486/2-A	Lab Control Sample	89	86	86
LCSD 400-360696/3-A	Lab Control Sample Dup		108	63
LCSD 400-362486/3-A	Lab Control Sample Dup	85	89	90
MB 400-360696/1-A	Method Blank		121	87
MB 400-362486/1-A	Method Blank	119	86	85

Surrogate Legend

TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

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)
400-140528-1	P66-ROX-071217	116
400-140528-2	P93C-ROX-071217	89
400-140528-3	P74-ROX-071217	101
400-140528-5	P56-ROX-071217	111
400-140528-7	TB-ROX-071217-8011	128
400-140528-8	MW9-ROX-071217	96
400-140528-9	MW5-ROX-071217-EB	111
400-140528-10	MW5-ROX-071217	85
400-140528-11	MW3-ROX-071217	76
400-140528-12	MW2-ROX-071217	91
400-140528-13	MW28-ROX-071217	92
400-140528-14	ROST4PZC-ROX-071217	79
400-140528-15	MW22-ROX-071217	89
400-140528-16	MW22-ROX-071217-DUP	93
400-140528-18	TB-ROX-07172017-8011-A	123
LCS 400-360825/2-A	Lab Control Sample	134
LCSD 400-360825/3-A	Lab Control Sample Dup	146
MB 400-360825/1-A	Method Blank	126

Surrogate Legend

BFB = 4-Bromofluorobenzene

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)
400-140528-4	P56-ROX-071217-EB	107

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

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: P66-ROX-071217

Lab Sample ID: 400-140528-1

Date Collected: 07/12/17 10:00

Matrix: Water

Date Received: 07/13/17 08:10

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	360958	07/19/17 14:45	RS	TAL PEN
Total/NA	Prep	3520C			1002.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 23:48	S1B	TAL PEN
Total/NA	Prep	3520C	RERA		1044.6 mL	1.0 mL	362486	08/01/17 11:03	VC1	TAL PEN
Total/NA	Analysis	8270D LL	RERA	5			362601	08/02/17 18:05	KJA	TAL PEN
Total/NA	Prep	3520C			1002.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 13:43	MAM	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 19:16	DS	TAL PEN

Client Sample ID: P93C-ROX-071217

Lab Sample ID: 400-140528-2

Date Collected: 07/12/17 11:10

Matrix: Water

Date Received: 07/13/17 08:10

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	360958	07/19/17 10:25	RS	TAL PEN
Total/NA	Prep	3520C			1016.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/20/17 00:18	S1B	TAL PEN
Total/NA	Prep	3520C			1016.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 14:53	MAM	TAL PEN
Total/NA	Prep	8011			36.4 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 14:20	DS	TAL PEN

Client Sample ID: P74-ROX-071217

Lab Sample ID: 400-140528-3

Date Collected: 07/12/17 12:20

Matrix: Water

Date Received: 07/13/17 08:10

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	361425	07/24/17 12:27	RS	TAL PEN
Total/NA	Prep	3520C			1015 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/20/17 00:48	S1B	TAL PEN
Total/NA	Prep	3520C			1015 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361993	07/27/17 19:00	PP1	TAL PEN
Total/NA	Prep	8011			36.4 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 14:39	DS	TAL PEN

Client Sample ID: P56-ROX-071217-EB

Lab Sample ID: 400-140528-4

Date Collected: 07/12/17 14:15

Matrix: Water

Date Received: 07/13/17 08:10

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	360958	07/19/17 13:58	RS	TAL PEN

Client Sample ID: P56-ROX-071217-EB

Lab Sample ID: 400-140528-4

Date Collected: 07/12/17 14:15
Matrix: Water
Date Received: 07/13/17 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1014.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 18:54	S1B	TAL PEN
Total/NA	Prep	3520C			1014.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361993	07/27/17 19:23	PP1	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 00:18	DS	TAL PEN

Client Sample ID: P56-ROX-071217

Lab Sample ID: 400-140528-5

Date Collected: 07/12/17 14:35
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 15:32	RS	TAL PEN
Total/NA	Prep	3520C			964.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 19:24	S1B	TAL PEN
Total/NA	Prep	3520C			964.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 15:16	MAM	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 15:16	DS	TAL PEN

Client Sample ID: TB-ROX-071217-8260

Lab Sample ID: 400-140528-6

Date Collected: 07/12/17 00:00
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 12:24	RS	TAL PEN

Client Sample ID: TB-ROX-071217-8011

Lab Sample ID: 400-140528-7

Date Collected: 07/12/17 00:00
Matrix: Water
Date Received: 07/13/17 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.4 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 15:34	DS	TAL PEN

Client Sample ID: MW9-ROX-071217

Lab Sample ID: 400-140528-8

Date Collected: 07/12/17 08:45
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 15:56	RS	TAL PEN
Total/NA	Prep	3520C			1047 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 19:54	S1B	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1047 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 15:39	MAM	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 15:53	DS	TAL PEN

Client Sample ID: MW5-ROX-071217-EB

Lab Sample ID: 400-140528-9

Date Collected: 07/12/17 10:20
Matrix: Water
Date Received: 07/13/17 08:10

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	361425	07/24/17 11:38	RS	TAL PEN
Total/NA	Prep	3520C			1032.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361135	07/20/17 20:24	S1B	TAL PEN
Total/NA	Prep	3520C			1032.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 16:03	MAM	TAL PEN
Total/NA	Prep	8011			36.1 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 16:30	DS	TAL PEN

Client Sample ID: MW5-ROX-071217

Lab Sample ID: 400-140528-10

Date Collected: 07/12/17 10:45
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 16:20	RS	TAL PEN
Total/NA	Prep	3520C			998.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 16:50	S1B	TAL PEN
Total/NA	Prep	3520C			998.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 16:26	MAM	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 16:48	DS	TAL PEN

Client Sample ID: MW3-ROX-071217

Lab Sample ID: 400-140528-11

Date Collected: 07/12/17 09:35
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 16:43	RS	TAL PEN
Total/NA	Prep	3520C			1011.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 12:34	S1B	TAL PEN
Total/NA	Prep	3520C			1011.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 16:49	MAM	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 17:07	DS	TAL PEN

Client Sample ID: MW2-ROX-071217

Lab Sample ID: 400-140528-12

Date Collected: 07/12/17 12:45
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 17:07	RS	TAL PEN
Total/NA	Prep	3520C			1031.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 13:05	S1B	TAL PEN
Total/NA	Prep	3520C			1031.4 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 17:12	MAM	TAL PEN
Total/NA	Prep	8011			35 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 17:25	DS	TAL PEN

Client Sample ID: MW28-ROX-071217

Lab Sample ID: 400-140528-13

Date Collected: 07/12/17 13:35
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 17:30	RS	TAL PEN
Total/NA	Prep	3520C			1009.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 13:35	S1B	TAL PEN
Total/NA	Prep	3520C			1009.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 17:35	MAM	TAL PEN
Total/NA	Prep	8011			35.7 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 17:44	DS	TAL PEN

Client Sample ID: ROST4PZC-ROX-071217

Lab Sample ID: 400-140528-14

Date Collected: 07/12/17 14:25
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 17:54	RS	TAL PEN
Total/NA	Prep	3520C			994.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 14:05	S1B	TAL PEN
Total/NA	Prep	3520C			994.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361993	07/27/17 22:28	PP1	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 18:02	DS	TAL PEN

Client Sample ID: MW22-ROX-071217

Lab Sample ID: 400-140528-15

Date Collected: 07/12/17 15:20
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 18:41	RS	TAL PEN
Total/NA	Prep	3520C			986.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 14:35	S1B	TAL PEN
Total/NA	Prep	3520C			986.8 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN

Client Sample ID: MW22-ROX-071217

Lab Sample ID: 400-140528-15

Date Collected: 07/12/17 15:20
Matrix: Water
Date Received: 07/13/17 08:10

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		2			362101	07/28/17 17:59	MAM	TAL PEN
Total/NA	Prep	8011			35.2 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 18:21	DS	TAL PEN

Client Sample ID: MW22-ROX-071217-DUP

Lab Sample ID: 400-140528-16

Date Collected: 07/12/17 15:20
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 19:04	RS	TAL PEN
Total/NA	Prep	3520C			1001.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 15:05	S1B	TAL PEN
Total/NA	Prep	3520C			1001.6 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 18:22	MAM	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 18:39	DS	TAL PEN

Client Sample ID: TB-ROX-07172017-8260-A

Lab Sample ID: 400-140528-17

Date Collected: 07/12/17 00:00
Matrix: Water
Date Received: 07/13/17 08:10

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	360958	07/19/17 12:47	RS	TAL PEN

Client Sample ID: TB-ROX-07172017-8011-A

Lab Sample ID: 400-140528-18

Date Collected: 07/12/17 00:00
Matrix: Water
Date Received: 07/13/17 08:10

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	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 18:58	DS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360696/1-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	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 21:18	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			362101	07/28/17 13:20	MAM	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360825/1-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	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 13:02	DS	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-360958/5
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	360958	07/19/17 10:02	RS	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-361425/28
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	361425	07/24/17 08:46	RS	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-362486/1-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	1.0 mL	362486	08/01/17 11:03	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			362601	08/02/17 16:27	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360696/2-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	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 21:48	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			361993	07/27/17 17:28	PP1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-360696/4-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	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 22:48	S1B	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360825/2-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	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 13:25	DS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360958/1002

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	360958	07/19/17 08:35	RS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-361425/1002

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	361425	07/24/17 07:49	RS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-362486/2-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	1.0 mL	362486	08/01/17 11:03	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			362601	08/02/17 17:00	KJA	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-360696/3-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	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361035	07/19/17 22:18	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			361993	07/27/17 17:51	PP1	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-360696/5-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	1.0 mL	360696	07/17/17 11:07	VC1	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	361035	07/19/17 23:18	S1B	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-360825/3-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	360825	07/18/17 09:24	DS	TAL PEN
Total/NA	Analysis	8011		1			361571	07/25/17 13:43	DS	TAL PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-362486/3-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	1.0 mL	362486	08/01/17 11:03	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			362601	08/02/17 17:33	KJA	TAL PEN

Client Sample ID: Matrix Spike — **Lab Sample ID: 400-140392-B-13 MS**
Date Collected: 07/11/17 11:35 — **Matrix: Water**
Date Received: 07/12/17 11:42

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	361425	07/24/17 09:35	RS	TAL PEN

Client Sample ID: Matrix Spike Duplicate — **Lab Sample ID: 400-140392-B-13 MSD**
Date Collected: 07/11/17 11:35 — **Matrix: Water**
Date Received: 07/12/17 11:42

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	361425	07/24/17 10:00	RS	TAL PEN

Client Sample ID: P93C-ROX-071217 — **Lab Sample ID: 400-140528-2 MS**
Date Collected: 07/12/17 11:10 — **Matrix: Water**
Date Received: 07/13/17 08:10

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	360958	07/19/17 10:49	RS	TAL PEN

Client Sample ID: P93C-ROX-071217 — **Lab Sample ID: 400-140528-2 MSD**
Date Collected: 07/12/17 11:10 — **Matrix: Water**
Date Received: 07/13/17 08:10

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	360958	07/19/17 11:12	RS	TAL PEN

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

GC/MS VOA

Analysis Batch: 360958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	8260B	
400-140528-2	P93C-ROX-071217	Total/NA	Water	8260B	
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	8260B	
400-140528-5	P56-ROX-071217	Total/NA	Water	8260B	
400-140528-6	TB-ROX-071217-8260	Total/NA	Water	8260B	
400-140528-8	MW9-ROX-071217	Total/NA	Water	8260B	
400-140528-10	MW5-ROX-071217	Total/NA	Water	8260B	
400-140528-11	MW3-ROX-071217	Total/NA	Water	8260B	
400-140528-12	MW2-ROX-071217	Total/NA	Water	8260B	
400-140528-13	MW28-ROX-071217	Total/NA	Water	8260B	
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	8260B	
400-140528-15	MW22-ROX-071217	Total/NA	Water	8260B	
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	8260B	
400-140528-17	TB-ROX-07172017-8260-A	Total/NA	Water	8260B	
MB 400-360958/5	Method Blank	Total/NA	Water	8260B	
LCS 400-360958/1002	Lab Control Sample	Total/NA	Water	8260B	
400-140528-2 MS	P93C-ROX-071217	Total/NA	Water	8260B	
400-140528-2 MSD	P93C-ROX-071217	Total/NA	Water	8260B	

Analysis Batch: 361425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-3	P74-ROX-071217	Total/NA	Water	8260B	
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	8260B	
MB 400-361425/28	Method Blank	Total/NA	Water	8260B	
LCS 400-361425/1002	Lab Control Sample	Total/NA	Water	8260B	
400-140392-B-13 MS	Matrix Spike	Total/NA	Water	8260B	
400-140392-B-13 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 360696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	3520C	
400-140528-2	P93C-ROX-071217	Total/NA	Water	3520C	
400-140528-3	P74-ROX-071217	Total/NA	Water	3520C	
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	3520C	
400-140528-5	P56-ROX-071217	Total/NA	Water	3520C	
400-140528-8	MW9-ROX-071217	Total/NA	Water	3520C	
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	3520C	
400-140528-10	MW5-ROX-071217	Total/NA	Water	3520C	
400-140528-11	MW3-ROX-071217	Total/NA	Water	3520C	
400-140528-12	MW2-ROX-071217	Total/NA	Water	3520C	
400-140528-13	MW28-ROX-071217	Total/NA	Water	3520C	
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	3520C	
400-140528-15	MW22-ROX-071217	Total/NA	Water	3520C	
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	3520C	
MB 400-360696/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360696/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-360696/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360696/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 360696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-360696/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 361035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	8270D	360696
400-140528-2	P93C-ROX-071217	Total/NA	Water	8270D	360696
400-140528-3	P74-ROX-071217	Total/NA	Water	8270D	360696
MB 400-360696/1-A	Method Blank	Total/NA	Water	8270D	360696
LCS 400-360696/2-A	Lab Control Sample	Total/NA	Water	8270D	360696
LCS 400-360696/4-A	Lab Control Sample	Total/NA	Water	8270D	360696
LCSD 400-360696/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360696
LCSD 400-360696/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	360696

Analysis Batch: 361125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-11	MW3-ROX-071217	Total/NA	Water	8270D	360696
400-140528-12	MW2-ROX-071217	Total/NA	Water	8270D	360696
400-140528-13	MW28-ROX-071217	Total/NA	Water	8270D	360696
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	8270D	360696
400-140528-15	MW22-ROX-071217	Total/NA	Water	8270D	360696
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	8270D	360696

Analysis Batch: 361135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	8270D	360696
400-140528-5	P56-ROX-071217	Total/NA	Water	8270D	360696
400-140528-8	MW9-ROX-071217	Total/NA	Water	8270D	360696
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	8270D	360696

Analysis Batch: 361330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-10	MW5-ROX-071217	Total/NA	Water	8270D	360696

Analysis Batch: 361993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-3	P74-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	8270D LL	360696
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	8270D LL	360696
LCS 400-360696/2-A	Lab Control Sample	Total/NA	Water	8270D LL	360696
LCSD 400-360696/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	360696

Analysis Batch: 362101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-2	P93C-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-5	P56-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-8	MW9-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	8270D LL	360696
400-140528-10	MW5-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-11	MW3-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-12	MW2-ROX-071217	Total/NA	Water	8270D LL	360696

GC/MS Semi VOA (Continued)

Analysis Batch: 362101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-13	MW28-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-15	MW22-ROX-071217	Total/NA	Water	8270D LL	360696
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	8270D LL	360696
MB 400-360696/1-A	Method Blank	Total/NA	Water	8270D LL	360696

Prep Batch: 362486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1 - RERA	P66-ROX-071217	Total/NA	Water	3520C	
MB 400-362486/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-362486/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-362486/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 362601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1 - RERA	P66-ROX-071217	Total/NA	Water	8270D LL	362486
MB 400-362486/1-A	Method Blank	Total/NA	Water	8270D LL	362486
LCS 400-362486/2-A	Lab Control Sample	Total/NA	Water	8270D LL	362486
LCSD 400-362486/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	362486

GC Semi VOA

Prep Batch: 360825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	8011	
400-140528-2	P93C-ROX-071217	Total/NA	Water	8011	
400-140528-3	P74-ROX-071217	Total/NA	Water	8011	
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	8011	
400-140528-5	P56-ROX-071217	Total/NA	Water	8011	
400-140528-7	TB-ROX-071217-8011	Total/NA	Water	8011	
400-140528-8	MW9-ROX-071217	Total/NA	Water	8011	
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	8011	
400-140528-10	MW5-ROX-071217	Total/NA	Water	8011	
400-140528-11	MW3-ROX-071217	Total/NA	Water	8011	
400-140528-12	MW2-ROX-071217	Total/NA	Water	8011	
400-140528-13	MW28-ROX-071217	Total/NA	Water	8011	
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	8011	
400-140528-15	MW22-ROX-071217	Total/NA	Water	8011	
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	8011	
400-140528-18	TB-ROX-07172017-8011-A	Total/NA	Water	8011	
MB 400-360825/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-360825/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-360825/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 361571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-1	P66-ROX-071217	Total/NA	Water	8011	360825
400-140528-2	P93C-ROX-071217	Total/NA	Water	8011	360825
400-140528-3	P74-ROX-071217	Total/NA	Water	8011	360825
400-140528-5	P56-ROX-071217	Total/NA	Water	8011	360825
400-140528-7	TB-ROX-071217-8011	Total/NA	Water	8011	360825

GC Semi VOA (Continued)

Analysis Batch: 361571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-8	MW9-ROX-071217	Total/NA	Water	8011	360825
400-140528-9	MW5-ROX-071217-EB	Total/NA	Water	8011	360825
400-140528-10	MW5-ROX-071217	Total/NA	Water	8011	360825
400-140528-11	MW3-ROX-071217	Total/NA	Water	8011	360825
400-140528-12	MW2-ROX-071217	Total/NA	Water	8011	360825
400-140528-13	MW28-ROX-071217	Total/NA	Water	8011	360825
400-140528-14	ROST4PZC-ROX-071217	Total/NA	Water	8011	360825
400-140528-15	MW22-ROX-071217	Total/NA	Water	8011	360825
400-140528-16	MW22-ROX-071217-DUP	Total/NA	Water	8011	360825
400-140528-18	TB-ROX-07172017-8011-A	Total/NA	Water	8011	360825
MB 400-360825/1-A	Method Blank	Total/NA	Water	8011	360825
LCS 400-360825/2-A	Lab Control Sample	Total/NA	Water	8011	360825
LCSD 400-360825/3-A	Lab Control Sample Dup	Total/NA	Water	8011	360825

Analysis Batch: 362028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140528-4	P56-ROX-071217-EB	Total/NA	Water	8011	360825

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

Lab Sample ID: MB 400-360958/5
Matrix: Water
Analysis Batch: 360958

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			07/19/17 10:02	1
Acrolein	ND		20	10	ug/L			07/19/17 10:02	1
Acrylonitrile	ND		10	2.8	ug/L			07/19/17 10:02	1
Benzene	ND		1.0	0.38	ug/L			07/19/17 10:02	1
Bromobenzene	ND		1.0	0.54	ug/L			07/19/17 10:02	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/19/17 10:02	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Bromoform	ND		5.0	0.71	ug/L			07/19/17 10:02	1
Bromomethane	ND		1.0	0.98	ug/L			07/19/17 10:02	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/19/17 10:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Chloroethane	ND		1.0	0.76	ug/L			07/19/17 10:02	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/19/17 10:02	1
Chloroform	ND		1.0	0.60	ug/L			07/19/17 10:02	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/19/17 10:02	1
Chloromethane	ND		1.0	0.83	ug/L			07/19/17 10:02	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 10:02	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/19/17 10:02	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/19/17 10:02	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/19/17 10:02	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/19/17 10:02	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/19/17 10:02	1
2-Hexanone	ND		25	3.1	ug/L			07/19/17 10:02	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/19/17 10:02	1
Methylene bromide	ND		5.0	0.59	ug/L			07/19/17 10:02	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/19/17 10:02	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/19/17 10:02	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/19/17 10:02	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/19/17 10:02	1
Naphthalene	ND		1.0	1.0	ug/L			07/19/17 10:02	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/19/17 10:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/17 10:02	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/19/17 10:02	1
o-Xylene	ND		5.0	0.60	ug/L			07/19/17 10:02	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/19/17 10:02	1

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

Lab Sample ID: MB 400-360958/5
Matrix: Water
Analysis Batch: 360958

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			07/19/17 10:02	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/19/17 10:02	1
Styrene	ND		1.0	1.0	ug/L			07/19/17 10:02	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/19/17 10:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/19/17 10:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/19/17 10:02	1
Toluene	ND		1.0	0.70	ug/L			07/19/17 10:02	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/19/17 10:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/19/17 10:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/19/17 10:02	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/19/17 10:02	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/19/17 10:02	1
Trichloroethene	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/19/17 10:02	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/19/17 10:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/19/17 10:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/19/17 10:02	1
Vinyl acetate	ND		25	2.0	ug/L			07/19/17 10:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/19/17 10:02	1
Xylenes, Total	ND		10	1.6	ug/L			07/19/17 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*07/19/17 10:02*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*07/19/17 10:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/19/17 10:02*	*1*

Lab Sample ID: LCS 400-360958/1002
Matrix: Water
Analysis Batch: 360958

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	468		ug/L		94	38 - 160
Acrylonitrile	500	487		ug/L		97	64 - 142
Benzene	50.0	49.4		ug/L		99	70 - 130
Bromobenzene	50.0	50.9		ug/L		102	70 - 132
Bromochloromethane	50.0	47.9		ug/L		96	70 - 130
Bromodichloromethane	50.0	51.9		ug/L		104	67 - 133
Bromoform	50.0	51.9		ug/L		104	57 - 140
Bromomethane	50.0	44.0		ug/L		88	10 - 160
2-Butanone (MEK)	200	196		ug/L		98	61 - 145
Carbon disulfide	50.0	44.6		ug/L		89	61 - 137
Carbon tetrachloride	50.0	54.1		ug/L		108	61 - 137
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130
Dibromochloromethane	50.0	53.5		ug/L		107	67 - 135
Chloroethane	50.0	46.9		ug/L		94	55 - 141

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

Lab Sample ID: LCS 400-360958/1002
Matrix: Water
Analysis Batch: 360958

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	25.9		ug/L		52	10 - 160
Chloroform	50.0	50.9		ug/L		102	69 - 130
1-Chlorohexane	50.0	49.0		ug/L		98	69 - 130
Chloromethane	50.0	45.8		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	68 - 130
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	69 - 132
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	67 - 130
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	49.1		ug/L		98	41 - 146
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	52.4		ug/L		105	63 - 134
1,2-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
1,3-Dichloropropane	50.0	50.1		ug/L		100	70 - 130
2,2-Dichloropropane	50.0	52.6		ug/L		105	52 - 135
1,1-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Ethylbenzene	50.0	50.2		ug/L		100	70 - 130
Ethyl methacrylate	50.0	47.6		ug/L		95	68 - 130
Hexachlorobutadiene	50.0	52.5		ug/L		105	53 - 140
2-Hexanone	200	192		ug/L		96	65 - 137
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130
Methylene bromide	50.0	53.2		ug/L		106	70 - 130
Methylene Chloride	50.0	49.8		ug/L		100	66 - 135
4-Methyl-2-pentanone (MIBK)	200	189		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	50.0		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	51.3		ug/L		103	70 - 130
Naphthalene	50.0	52.2		ug/L		104	47 - 149
n-Butylbenzene	50.0	50.2		ug/L		100	67 - 130
N-Propylbenzene	50.0	50.5		ug/L		101	70 - 130
o-Chlorotoluene	50.0	48.9		ug/L		98	70 - 130
o-Xylene	50.0	50.4		ug/L		101	70 - 130
p-Chlorotoluene	50.0	50.7		ug/L		101	70 - 130
p-Isopropyltoluene	50.0	51.4		ug/L		103	65 - 130
sec-Butylbenzene	50.0	50.8		ug/L		102	66 - 130
Styrene	50.0	52.3		ug/L		105	70 - 130
tert-Butylbenzene	50.0	51.5		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/L		106	67 - 131
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 131
Tetrachloroethene	50.0	50.3		ug/L		101	65 - 130
Toluene	50.0	47.3		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	63 - 130
1,2,3-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 138
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	60 - 140
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	68 - 130
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
Trichloroethene	50.0	52.4		ug/L		105	70 - 130

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

Lab Sample ID: LCS 400-360958/1002
Matrix: Water
Analysis Batch: 360958

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	50.5		ug/L		101	65 - 138
1,2,3-Trichloropropane	50.0	53.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	50.0	49.7		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	50.0	50.2		ug/L		100	69 - 130
Vinyl acetate	100	94.8		ug/L		95	26 - 160
Vinyl chloride	50.0	47.2		ug/L		94	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 400-140528-2 MS
Matrix: Water
Analysis Batch: 360958

Client Sample ID: P93C-ROX-071217
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	417		ug/L		83	38 - 160
Acrylonitrile	ND		500	454		ug/L		91	62 - 149
Benzene	ND		50.0	47.8		ug/L		96	56 - 142
Bromobenzene	ND		50.0	47.9		ug/L		96	59 - 136
Bromochloromethane	ND		50.0	47.0		ug/L		94	64 - 140
Bromodichloromethane	ND		50.0	49.0		ug/L		98	59 - 143
Bromoform	ND		50.0	50.0		ug/L		100	50 - 140
Bromomethane	ND		50.0	43.7		ug/L		87	10 - 160
2-Butanone (MEK)	ND		200	188		ug/L		94	55 - 150
Carbon disulfide	ND		50.0	44.8		ug/L		90	48 - 152
Carbon tetrachloride	ND		50.0	51.3		ug/L		103	55 - 145
Chlorobenzene	ND		50.0	46.1		ug/L		92	64 - 130
Dibromochloromethane	ND		50.0	47.8		ug/L		96	56 - 143
Chloroethane	ND		50.0	46.0		ug/L		92	50 - 151
2-Chloroethyl vinyl ether	ND		50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	48.5		ug/L		97	60 - 141
1-Chlorohexane	ND		50.0	43.4		ug/L		87	56 - 136
Chloromethane	ND		50.0	43.3		ug/L		87	49 - 148
cis-1,2-Dichloroethene	ND		50.0	47.5		ug/L		95	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.3		ug/L		95	57 - 140
1,2-Dichlorobenzene	ND		50.0	47.1		ug/L		94	52 - 137
1,3-Dichlorobenzene	ND		50.0	47.4		ug/L		95	54 - 135
1,4-Dichlorobenzene	ND		50.0	46.3		ug/L		93	53 - 135
Dichlorodifluoromethane	ND		50.0	45.9		ug/L		92	16 - 160
1,1-Dichloroethane	ND		50.0	47.8		ug/L		96	61 - 144
1,2-Dichloroethane	ND		50.0	47.4		ug/L		95	60 - 141
1,1-Dichloroethene	ND		50.0	51.3		ug/L		103	54 - 147
1,2-Dichloropropane	ND		50.0	47.2		ug/L		94	66 - 137
1,3-Dichloropropane	ND		50.0	43.7		ug/L		87	66 - 133

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

Lab Sample ID: 400-140528-2 MS
Matrix: Water
Analysis Batch: 360958

Client Sample ID: P93C-ROX-071217
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	50.1		ug/L		100	42 - 144
1,1-Dichloropropene	ND		50.0	48.5		ug/L		97	65 - 136
Ethylbenzene	ND		50.0	46.2		ug/L		92	58 - 131
Ethyl methacrylate	ND		50.0	44.0		ug/L		88	64 - 130
Hexachlorobutadiene	ND		50.0	46.1		ug/L		92	31 - 149
2-Hexanone	ND		200	159		ug/L		80	65 - 140
Isopropylbenzene	ND		50.0	46.1		ug/L		92	56 - 133
Methylene bromide	ND		50.0	49.1		ug/L		98	63 - 138
Methylene Chloride	ND		50.0	48.0		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	172		ug/L		86	63 - 146
Methyl tert-butyl ether	4.1		50.0	50.9		ug/L		94	59 - 137
m-Xylene & p-Xylene	ND		50.0	46.6		ug/L		93	57 - 130
Naphthalene	ND		50.0	45.8		ug/L		92	25 - 160
n-Butylbenzene	ND		50.0	43.7		ug/L		87	41 - 142
N-Propylbenzene	ND		50.0	46.3		ug/L		93	51 - 138
o-Chlorotoluene	ND		50.0	45.7		ug/L		91	53 - 134
o-Xylene	ND		50.0	46.1		ug/L		92	61 - 130
p-Chlorotoluene	ND		50.0	45.6		ug/L		91	54 - 133
p-Isopropyltoluene	ND		50.0	46.6		ug/L		93	48 - 139
sec-Butylbenzene	ND		50.0	46.8		ug/L		94	50 - 138
Styrene	ND		50.0	47.8		ug/L		96	58 - 131
tert-Butylbenzene	ND		50.0	48.1		ug/L		96	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	49.5		ug/L		99	66 - 135
Tetrachloroethene	ND		50.0	41.4		ug/L		83	52 - 133
Toluene	ND		50.0	45.1		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	50.0		ug/L		100	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.7		ug/L		89	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.4		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	46.7		ug/L		93	39 - 148
1,1,1-Trichloroethane	ND		50.0	52.1		ug/L		104	57 - 142
1,1,2-Trichloroethane	ND		50.0	43.7		ug/L		87	66 - 131
Trichloroethene	ND		50.0	50.2		ug/L		100	64 - 136
Trichlorofluoromethane	ND		50.0	45.4		ug/L		91	54 - 156
1,2,3-Trichloropropane	ND		50.0	49.2		ug/L		98	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	47.1		ug/L		94	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	46.9		ug/L		94	52 - 135
Vinyl acetate	ND		100	88.4		ug/L		88	26 - 160
Vinyl chloride	ND		50.0	45.7		ug/L		91	46 - 152
Xylenes, Total	ND		100	92.7		ug/L		93	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: 400-140528-2 MSD
Matrix: Water
Analysis Batch: 360958

Client Sample ID: P93C-ROX-071217
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	165		ug/L		83	43 - 160	5	30
Acrolein	ND		500	437		ug/L		87	38 - 160	5	31
Acrylonitrile	ND		500	459		ug/L		92	62 - 149	1	30
Benzene	ND		50.0	48.3		ug/L		97	56 - 142	1	30
Bromobenzene	ND		50.0	47.3		ug/L		95	59 - 136	1	30
Bromochloromethane	ND		50.0	47.3		ug/L		95	64 - 140	0	30
Bromodichloromethane	ND		50.0	49.8		ug/L		100	59 - 143	2	30
Bromoform	ND		50.0	51.3		ug/L		103	50 - 140	3	30
Bromomethane	ND		50.0	49.2		ug/L		98	10 - 160	12	50
2-Butanone (MEK)	ND		200	188		ug/L		94	55 - 150	0	30
Carbon disulfide	ND		50.0	43.5		ug/L		87	48 - 152	3	30
Carbon tetrachloride	ND		50.0	53.1		ug/L		106	55 - 145	3	30
Chlorobenzene	ND		50.0	46.7		ug/L		93	64 - 130	1	30
Dibromochloromethane	ND		50.0	51.6		ug/L		103	56 - 143	8	30
Chloroethane	ND		50.0	46.2		ug/L		92	50 - 151	0	30
2-Chloroethyl vinyl ether	ND		50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	48.8		ug/L		98	60 - 141	1	30
1-Chlorohexane	ND		50.0	43.8		ug/L		88	56 - 136	1	30
Chloromethane	ND		50.0	45.9		ug/L		92	49 - 148	6	31
cis-1,2-Dichloroethene	ND		50.0	48.4		ug/L		97	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	49.4		ug/L		99	57 - 140	4	30
1,2-Dichlorobenzene	ND		50.0	46.7		ug/L		93	52 - 137	1	30
1,3-Dichlorobenzene	ND		50.0	46.3		ug/L		93	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	45.5		ug/L		91	53 - 135	2	30
Dichlorodifluoromethane	ND		50.0	48.5		ug/L		97	16 - 160	5	31
1,1-Dichloroethane	ND		50.0	48.8		ug/L		98	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	48.5		ug/L		97	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	52.9		ug/L		106	54 - 147	3	30
1,2-Dichloropropane	ND		50.0	47.2		ug/L		94	66 - 137	0	30
1,3-Dichloropropane	ND		50.0	48.5		ug/L		97	66 - 133	10	30
2,2-Dichloropropane	ND		50.0	51.3		ug/L		103	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	48.6		ug/L		97	65 - 136	0	30
Ethylbenzene	ND		50.0	46.6		ug/L		93	58 - 131	1	30
Ethyl methacrylate	ND		50.0	47.6		ug/L		95	64 - 130	8	30
Hexachlorobutadiene	ND		50.0	44.1		ug/L		88	31 - 149	4	36
2-Hexanone	ND		200	185		ug/L		92	65 - 140	15	30
Isopropylbenzene	ND		50.0	45.8		ug/L		92	56 - 133	1	30
Methylene bromide	ND		50.0	50.9		ug/L		102	63 - 138	4	30
Methylene Chloride	ND		50.0	49.0		ug/L		98	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	179		ug/L		90	63 - 146	4	30
Methyl tert-butyl ether	4.1		50.0	52.1		ug/L		96	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	46.4		ug/L		93	57 - 130	0	30
Naphthalene	ND		50.0	50.8		ug/L		102	25 - 160	10	30
n-Butylbenzene	ND		50.0	41.6		ug/L		83	41 - 142	5	31
N-Propylbenzene	ND		50.0	43.2		ug/L		86	51 - 138	7	30
o-Chlorotoluene	ND		50.0	44.5		ug/L		89	53 - 134	3	30
o-Xylene	ND		50.0	46.5		ug/L		93	61 - 130	1	30
p-Chlorotoluene	ND		50.0	45.7		ug/L		91	54 - 133	0	30

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

Lab Sample ID: 400-140528-2 MSD
Matrix: Water
Analysis Batch: 360958

Client Sample ID: P93C-ROX-071217
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	45.6		ug/L		91	48 - 139	2	30
sec-Butylbenzene	ND		50.0	44.4		ug/L		89	50 - 138	5	30
Styrene	ND		50.0	48.3		ug/L		97	58 - 131	1	30
tert-Butylbenzene	ND		50.0	46.6		ug/L		93	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	50.8		ug/L		102	59 - 137	2	30
1,1,2,2-Tetrachloroethane	ND		50.0	48.2		ug/L		96	66 - 135	3	30
Tetrachloroethene	ND		50.0	45.5		ug/L		91	52 - 133	9	30
Toluene	ND		50.0	45.4		ug/L		91	65 - 130	1	30
trans-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	53 - 133	5	30
1,2,3-Trichlorobenzene	ND		50.0	47.7		ug/L		95	43 - 145	1	30
1,2,4-Trichlorobenzene	ND		50.0	45.4		ug/L		91	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	52.2		ug/L		104	57 - 142	0	30
1,1,2-Trichloroethane	ND		50.0	45.4		ug/L		91	66 - 131	4	30
Trichloroethene	ND		50.0	48.4		ug/L		97	64 - 136	3	30
Trichlorofluoromethane	ND		50.0	48.5		ug/L		97	54 - 156	7	30
1,2,3-Trichloropropane	ND		50.0	50.0		ug/L		100	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	45.2		ug/L		90	50 - 139	4	30
1,3,5-Trimethylbenzene	ND		50.0	45.3		ug/L		91	52 - 135	4	30
Vinyl acetate	ND		100	96.1		ug/L		96	26 - 160	8	33
Vinyl chloride	ND		50.0	47.9		ug/L		96	46 - 152	5	30
Xylenes, Total	ND		100	92.9		ug/L		93	59 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
Acrolein	ND		20	10	ug/L			07/24/17 08:46	1
Acrylonitrile	ND		10	2.8	ug/L			07/24/17 08:46	1
Benzene	ND		1.0	0.38	ug/L			07/24/17 08:46	1
Bromobenzene	ND		1.0	0.54	ug/L			07/24/17 08:46	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/24/17 08:46	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Bromoform	ND		5.0	0.71	ug/L			07/24/17 08:46	1
Bromomethane	ND		1.0	0.98	ug/L			07/24/17 08:46	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/24/17 08:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Chloroethane	ND		1.0	0.76	ug/L			07/24/17 08:46	1

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

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
Chloroform	ND		1.0	0.60	ug/L			07/24/17 08:46	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/24/17 08:46	1
Chloromethane	ND		1.0	0.83	ug/L			07/24/17 08:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/24/17 08:46	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/24/17 08:46	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/24/17 08:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/24/17 08:46	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/24/17 08:46	1
2-Hexanone	ND		25	3.1	ug/L			07/24/17 08:46	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/24/17 08:46	1
Methylene bromide	ND		5.0	0.59	ug/L			07/24/17 08:46	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/24/17 08:46	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/24/17 08:46	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/24/17 08:46	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/24/17 08:46	1
Naphthalene	ND		1.0	1.0	ug/L			07/24/17 08:46	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/24/17 08:46	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/17 08:46	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/24/17 08:46	1
o-Xylene	ND		5.0	0.60	ug/L			07/24/17 08:46	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/24/17 08:46	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/24/17 08:46	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
Styrene	ND		1.0	1.0	ug/L			07/24/17 08:46	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/24/17 08:46	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/24/17 08:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/24/17 08:46	1
Toluene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/24/17 08:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/24/17 08:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/24/17 08:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/24/17 08:46	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/24/17 08:46	1
Trichloroethene	ND		1.0	0.50	ug/L			07/24/17 08:46	1

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

Lab Sample ID: MB 400-361425/28
Matrix: Water
Analysis Batch: 361425

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			07/24/17 08:46	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/24/17 08:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/24/17 08:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/24/17 08:46	1
Vinyl acetate	ND		25	2.0	ug/L			07/24/17 08:46	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/24/17 08:46	1
Xylenes, Total	ND		10	1.6	ug/L			07/24/17 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*07/24/17 08:46*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*07/24/17 08:46*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/24/17 08:46*	*1*

Lab Sample ID: LCS 400-361425/1002
Matrix: Water
Analysis Batch: 361425

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	154		ug/L		77	43 - 160
Acrolein	500	496		ug/L		99	38 - 160
Acrylonitrile	500	440		ug/L		88	64 - 142
Benzene	50.0	49.0		ug/L		98	70 - 130
Bromobenzene	50.0	53.6		ug/L		107	70 - 132
Bromochloromethane	50.0	56.3		ug/L		113	70 - 130
Bromodichloromethane	50.0	43.6		ug/L		87	67 - 133
Bromoform	50.0	42.6		ug/L		85	57 - 140
Bromomethane	50.0	66.7		ug/L		133	10 - 160
2-Butanone (MEK)	200	194		ug/L		97	61 - 145
Carbon disulfide	50.0	41.1		ug/L		82	61 - 137
Carbon tetrachloride	50.0	49.4		ug/L		99	61 - 137
Chlorobenzene	50.0	51.4		ug/L		103	70 - 130
Dibromochloromethane	50.0	46.5		ug/L		93	67 - 135
Chloroethane	50.0	49.8		ug/L		100	55 - 141
2-Chloroethyl vinyl ether	50.0	42.0		ug/L		84	10 - 160
Chloroform	50.0	48.0		ug/L		96	69 - 130
1-Chlorohexane	50.0	42.5		ug/L		85	69 - 130
Chloromethane	50.0	41.2		ug/L		82	58 - 137
cis-1,2-Dichloroethene	50.0	44.0		ug/L		88	68 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	69 - 132
1,2-Dichlorobenzene	50.0	52.5		ug/L		105	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	47.1		ug/L		94	41 - 146
1,1-Dichloroethane	50.0	45.2		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	43.8		ug/L		88	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	45.5		ug/L		91	70 - 130
1,3-Dichloropropane	50.0	46.7		ug/L		93	70 - 130

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

Lab Sample ID: LCS 400-361425/1002
Matrix: Water
Analysis Batch: 361425

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	43.6		ug/L		87	52 - 135
1,1-Dichloropropene	50.0	47.6		ug/L		95	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
Ethyl methacrylate	50.0	43.5		ug/L		87	68 - 130
Hexachlorobutadiene	50.0	47.9		ug/L		96	53 - 140
2-Hexanone	200	154		ug/L		77	65 - 137
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 130
Methylene bromide	50.0	50.4		ug/L		101	70 - 130
Methylene Chloride	50.0	47.9		ug/L		96	66 - 135
4-Methyl-2-pentanone (MIBK)	200	159		ug/L		80	69 - 138
Methyl tert-butyl ether	50.0	45.8		ug/L		92	66 - 130
m-Xylene & p-Xylene	50.0	48.4		ug/L		97	70 - 130
Naphthalene	50.0	50.2		ug/L		100	47 - 149
n-Butylbenzene	50.0	47.8		ug/L		96	67 - 130
N-Propylbenzene	50.0	48.6		ug/L		97	70 - 130
o-Chlorotoluene	50.0	48.5		ug/L		97	70 - 130
o-Xylene	50.0	47.7		ug/L		95	70 - 130
p-Chlorotoluene	50.0	48.1		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	52.7		ug/L		105	65 - 130
sec-Butylbenzene	50.0	50.0		ug/L		100	66 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
tert-Butylbenzene	50.0	51.6		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.4		ug/L		99	67 - 131
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 131
Tetrachloroethene	50.0	51.3		ug/L		103	65 - 130
Toluene	50.0	49.0		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	42.5		ug/L		85	63 - 130
1,2,3-Trichlorobenzene	50.0	51.1		ug/L		102	60 - 138
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	68 - 130
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	70 - 130
Trichloroethene	50.0	54.4		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	50.0		ug/L		100	65 - 138
1,2,3-Trichloropropane	50.0	49.9		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	69 - 130
Vinyl acetate	100	94.3		ug/L		94	26 - 160
Vinyl chloride	50.0	46.3		ug/L		93	59 - 136
Xylenes, Total	100	96.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 400-140392-B-13 MS
Matrix: Water
Analysis Batch: 361425

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	138		ug/L		69	43 - 160
Acrolein	ND		500	482		ug/L		96	38 - 160
Acrylonitrile	ND		500	408		ug/L		82	62 - 149
Benzene	0.47	J	50.0	47.0		ug/L		93	56 - 142
Bromobenzene	ND		50.0	49.3		ug/L		99	59 - 136
Bromochloromethane	ND		50.0	52.5		ug/L		105	64 - 140
Bromodichloromethane	ND		50.0	40.7		ug/L		81	59 - 143
Bromoform	ND		50.0	40.2		ug/L		80	50 - 140
Bromomethane	ND		50.0	71.4		ug/L		143	10 - 160
2-Butanone (MEK)	ND		200	180		ug/L		90	55 - 150
Carbon disulfide	ND		50.0	38.7		ug/L		77	48 - 152
Carbon tetrachloride	ND		50.0	47.5		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	47.3		ug/L		95	64 - 130
Dibromochloromethane	ND		50.0	43.3		ug/L		87	56 - 143
Chloroethane	ND		50.0	46.8		ug/L		94	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	45.4		ug/L		91	60 - 141
1-Chlorohexane	ND		50.0	38.2		ug/L		76	56 - 136
Chloromethane	ND		50.0	38.9		ug/L		78	49 - 148
cis-1,2-Dichloroethene	ND		50.0	41.4		ug/L		83	59 - 143
cis-1,3-Dichloropropene	ND		50.0	41.6		ug/L		83	57 - 140
1,2-Dichlorobenzene	ND		50.0	48.3		ug/L		97	52 - 137
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	54 - 135
1,4-Dichlorobenzene	ND		50.0	48.6		ug/L		97	53 - 135
Dichlorodifluoromethane	ND		50.0	44.9		ug/L		90	16 - 160
1,1-Dichloroethane	ND		50.0	42.4		ug/L		85	61 - 144
1,2-Dichloroethane	ND		50.0	41.7		ug/L		83	60 - 141
1,1-Dichloroethene	ND		50.0	50.3		ug/L		101	54 - 147
1,2-Dichloropropane	ND		50.0	42.5		ug/L		85	66 - 137
1,3-Dichloropropane	ND		50.0	42.5		ug/L		85	66 - 133
2,2-Dichloropropane	ND		50.0	40.7		ug/L		81	42 - 144
1,1-Dichloropropene	ND		50.0	44.8		ug/L		90	65 - 136
Ethylbenzene	ND		50.0	45.1		ug/L		90	58 - 131
Ethyl methacrylate	ND		50.0	40.6		ug/L		81	64 - 130
Hexachlorobutadiene	ND		50.0	45.2		ug/L		90	31 - 149
2-Hexanone	ND		200	142		ug/L		71	65 - 140
Isopropylbenzene	ND		50.0	46.6		ug/L		93	56 - 133
Methylene bromide	ND		50.0	47.1		ug/L		94	63 - 138
Methylene Chloride	ND		50.0	44.3		ug/L		89	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	149		ug/L		75	63 - 146
Methyl tert-butyl ether	0.82	J	50.0	42.7		ug/L		84	59 - 137
m-Xylene & p-Xylene	ND		50.0	44.5		ug/L		89	57 - 130
Naphthalene	ND		50.0	47.4		ug/L		95	25 - 160
n-Butylbenzene	ND		50.0	44.1		ug/L		88	41 - 142
N-Propylbenzene	ND		50.0	45.2		ug/L		90	51 - 138
o-Chlorotoluene	ND		50.0	45.1		ug/L		90	53 - 134
o-Xylene	ND		50.0	44.3		ug/L		89	61 - 130
p-Chlorotoluene	ND		50.0	44.2		ug/L		88	54 - 133

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

Lab Sample ID: 400-140392-B-13 MS
Matrix: Water
Analysis Batch: 361425

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	48.1		ug/L		96	48 - 139
sec-Butylbenzene	ND		50.0	46.3		ug/L		93	50 - 138
Styrene	ND		50.0	46.3		ug/L		93	58 - 131
tert-Butylbenzene	ND		50.0	48.1		ug/L		96	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	46.4		ug/L		93	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	43.1		ug/L		86	66 - 135
Tetrachloroethene	ND		50.0	46.1		ug/L		92	52 - 133
Toluene	ND		50.0	45.5		ug/L		91	65 - 130
trans-1,2-Dichloroethene	ND		50.0	47.6		ug/L		95	61 - 143
trans-1,3-Dichloropropene	ND		50.0	38.4		ug/L		77	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	47.4		ug/L		95	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	46.9		ug/L		94	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.0		ug/L		92	57 - 142
1,1,2-Trichloroethane	ND		50.0	42.5		ug/L		85	66 - 131
Trichloroethene	ND		50.0	51.5		ug/L		103	64 - 136
Trichlorofluoromethane	ND		50.0	50.4		ug/L		101	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.9		ug/L		96	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	46.3		ug/L		93	52 - 135
Vinyl acetate	ND		100	89.9		ug/L		90	26 - 160
Vinyl chloride	ND		50.0	45.0		ug/L		90	46 - 152
Xylenes, Total	ND		100	88.9		ug/L		89	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-140392-B-13 MSD
Matrix: Water
Analysis Batch: 361425

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	140		ug/L		70	43 - 160	1	30
Acrolein	ND		500	485		ug/L		97	38 - 160	1	31
Acrylonitrile	ND		500	412		ug/L		82	62 - 149	1	30
Benzene	0.47	J	50.0	47.3		ug/L		94	56 - 142	1	30
Bromobenzene	ND		50.0	50.2		ug/L		100	59 - 136	2	30
Bromochloromethane	ND		50.0	53.1		ug/L		106	64 - 140	1	30
Bromodichloromethane	ND		50.0	41.0		ug/L		82	59 - 143	1	30
Bromoform	ND		50.0	40.2		ug/L		80	50 - 140	0	30
Bromomethane	ND		50.0	74.7		ug/L		149	10 - 160	5	50
2-Butanone (MEK)	ND		200	178		ug/L		89	55 - 150	1	30
Carbon disulfide	ND		50.0	39.6		ug/L		79	48 - 152	2	30
Carbon tetrachloride	ND		50.0	47.9		ug/L		96	55 - 145	1	30
Chlorobenzene	ND		50.0	48.4		ug/L		97	64 - 130	2	30
Dibromochloromethane	ND		50.0	43.1		ug/L		86	56 - 143	0	30
Chloroethane	ND		50.0	47.5		ug/L		95	50 - 151	1	30

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

Lab Sample ID: 400-140392-B-13 MSD
Matrix: Water
Analysis Batch: 361425

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	45.8		ug/L		92	60 - 141	1	30
1-Chlorohexane	ND		50.0	39.1		ug/L		78	56 - 136	2	30
Chloromethane	ND		50.0	38.8		ug/L		78	49 - 148	0	31
cis-1,2-Dichloroethene	ND		50.0	42.4		ug/L		85	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	42.4		ug/L		85	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	49.3		ug/L		99	52 - 137	2	30
1,3-Dichlorobenzene	ND		50.0	50.2		ug/L		100	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	50.2		ug/L		100	53 - 135	3	30
Dichlorodifluoromethane	ND		50.0	45.7		ug/L		91	16 - 160	2	31
1,1-Dichloroethane	ND		50.0	43.1		ug/L		86	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	41.7		ug/L		83	60 - 141	0	30
1,1-Dichloroethene	ND		50.0	51.0		ug/L		102	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	43.0		ug/L		86	66 - 137	1	30
1,3-Dichloropropane	ND		50.0	43.3		ug/L		87	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	41.0		ug/L		82	42 - 144	1	31
1,1-Dichloropropene	ND		50.0	45.1		ug/L		90	65 - 136	1	30
Ethylbenzene	ND		50.0	46.0		ug/L		92	58 - 131	2	30
Ethyl methacrylate	ND		50.0	40.9		ug/L		82	64 - 130	1	30
Hexachlorobutadiene	ND		50.0	45.6		ug/L		91	31 - 149	1	36
2-Hexanone	ND		200	140		ug/L		70	65 - 140	1	30
Isopropylbenzene	ND		50.0	48.3		ug/L		97	56 - 133	4	30
Methylene bromide	ND		50.0	46.6		ug/L		93	63 - 138	1	30
Methylene Chloride	ND		50.0	46.2		ug/L		92	60 - 146	4	32
4-Methyl-2-pentanone (MIBK)	ND		200	151		ug/L		76	63 - 146	1	30
Methyl tert-butyl ether	0.82	J	50.0	43.8		ug/L		86	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	45.7		ug/L		91	57 - 130	3	30
Naphthalene	ND		50.0	48.6		ug/L		97	25 - 160	2	30
n-Butylbenzene	ND		50.0	45.7		ug/L		91	41 - 142	4	31
N-Propylbenzene	ND		50.0	46.2		ug/L		92	51 - 138	2	30
o-Chlorotoluene	ND		50.0	46.2		ug/L		92	53 - 134	2	30
o-Xylene	ND		50.0	45.2		ug/L		90	61 - 130	2	30
p-Chlorotoluene	ND		50.0	44.9		ug/L		90	54 - 133	2	30
p-Isopropyltoluene	ND		50.0	49.7		ug/L		99	48 - 139	3	30
sec-Butylbenzene	ND		50.0	47.9		ug/L		96	50 - 138	3	30
Styrene	ND		50.0	47.4		ug/L		95	58 - 131	2	30
tert-Butylbenzene	ND		50.0	49.4		ug/L		99	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	46.8		ug/L		94	59 - 137	1	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.0		ug/L		86	66 - 135	0	30
Tetrachloroethene	ND		50.0	46.1		ug/L		92	52 - 133	0	30
Toluene	ND		50.0	46.1		ug/L		92	65 - 130	1	30
trans-1,2-Dichloroethene	ND		50.0	48.6		ug/L		97	61 - 143	2	30
trans-1,3-Dichloropropene	ND		50.0	39.3		ug/L		79	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	48.4		ug/L		97	43 - 145	2	30
1,2,4-Trichlorobenzene	ND		50.0	48.4		ug/L		97	39 - 148	3	30
1,1,1-Trichloroethane	ND		50.0	46.1		ug/L		92	57 - 142	0	30
1,1,2-Trichloroethane	ND		50.0	42.7		ug/L		85	66 - 131	0	30
Trichloroethene	ND		50.0	52.3		ug/L		105	64 - 136	1	30

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

Lab Sample ID: 400-140392-B-13 MSD
Matrix: Water
Analysis Batch: 361425

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	51.0		ug/L		102	54 - 156	1	30
1,2,3-Trichloropropane	ND		50.0	47.7		ug/L		95	65 - 133	0	30
1,2,4-Trimethylbenzene	ND		50.0	47.5		ug/L		95	50 - 139	2	30
1,3,5-Trimethylbenzene	ND		50.0	47.3		ug/L		95	52 - 135	2	30
Vinyl acetate	ND		100	90.5		ug/L		90	26 - 160	1	33
Vinyl chloride	ND		50.0	45.1		ug/L		90	46 - 152	0	30
Xylenes, Total	ND		100	90.9		ug/L		91	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-360696/1-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/17/17 11:07	07/19/17 21:18	1
Benzenethiol	ND		10	1.7	ug/L		07/17/17 11:07	07/19/17 21:18	1
Benzoic acid	ND		30	7.3	ug/L		07/17/17 11:07	07/19/17 21:18	1
Benzyl alcohol	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/17/17 11:07	07/19/17 21:18	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/17/17 11:07	07/19/17 21:18	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/17/17 11:07	07/19/17 21:18	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/17/17 11:07	07/19/17 21:18	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Chloroaniline	ND		10	3.4	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/17/17 11:07	07/19/17 21:18	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/17/17 11:07	07/19/17 21:18	1
2-Chlorophenol	ND		10	2.2	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Dibenzofuran	ND		10	0.52	ug/L		07/17/17 11:07	07/19/17 21:18	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Diethyl phthalate	ND		10	0.70	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 21:18	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/17/17 11:07	07/19/17 21:18	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/17/17 11:07	07/19/17 21:18	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/17/17 11:07	07/19/17 21:18	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/17/17 11:07	07/19/17 21:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-360696/1-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/17/17 11:07	07/19/17 21:18	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/17/17 11:07	07/19/17 21:18	1
Hexachloroethane	ND		10	4.2	ug/L		07/17/17 11:07	07/19/17 21:18	1
Indene	ND		10	1.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
Isophorone	ND		10	0.57	ug/L		07/17/17 11:07	07/19/17 21:18	1
2-Methylphenol	ND		10	1.8	ug/L		07/17/17 11:07	07/19/17 21:18	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
2-Nitroaniline	ND		10	2.2	ug/L		07/17/17 11:07	07/19/17 21:18	1
3-Nitroaniline	ND		10	1.8	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Nitroaniline	ND		10	2.5	ug/L		07/17/17 11:07	07/19/17 21:18	1
Nitrobenzene	ND		10	0.55	ug/L		07/17/17 11:07	07/19/17 21:18	1
2-Nitrophenol	ND		10	0.65	ug/L		07/17/17 11:07	07/19/17 21:18	1
4-Nitrophenol	ND		10	2.1	ug/L		07/17/17 11:07	07/19/17 21:18	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 21:18	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/17/17 11:07	07/19/17 21:18	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/17/17 11:07	07/19/17 21:18	1
Pentachlorophenol	ND		20	1.8	ug/L		07/17/17 11:07	07/19/17 21:18	1
Phenol	ND		10	2.6	ug/L		07/17/17 11:07	07/19/17 21:18	1
Pyridine	ND		10	3.2	ug/L		07/17/17 11:07	07/19/17 21:18	1
Quinoline	ND		10	6.0	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/17/17 11:07	07/19/17 21:18	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/17/17 11:07	07/19/17 21:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 120*	*07/17/17 11:07*	*07/19/17 21:18*	*1*
2-Fluorophenol	*54*		*10 - 120*	*07/17/17 11:07*	*07/19/17 21:18*	*1*
Nitrobenzene-d5	*88*		*27 - 120*	*07/17/17 11:07*	*07/19/17 21:18*	*1*
Phenol-d5	*74*		*10 - 120*	*07/17/17 11:07*	*07/19/17 21:18*	*1*
Terphenyl-d14	*102*		*53 - 125*	*07/17/17 11:07*	*07/19/17 21:18*	*1*
2,4,6-Tribromophenol	*108*		*15 - 135*	*07/17/17 11:07*	*07/19/17 21:18*	*1*

Lab Sample ID: LCS 400-360696/2-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	23.3		ug/L		78	29 - 120
Benzoic acid	125	23.4	J	ug/L		19	10 - 150
Benzyl alcohol	30.0	25.5		ug/L		85	19 - 125
Bis(2-chloroethoxy)methane	30.0	25.9		ug/L		86	45 - 120
Bis(2-chloroethyl)ether	30.0	24.0		ug/L		80	48 - 120
bis (2-chloroisopropyl) ether	30.0	23.1		ug/L		77	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	29.1		ug/L		97	48 - 150
4-Bromophenyl phenyl ether	30.0	26.8		ug/L		89	55 - 122
Butyl benzyl phthalate	30.0	30.3		ug/L		101	46 - 145

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360696/2-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	26.6		ug/L		89	30 - 120
4-Chloro-3-methylphenol	30.0	25.1		ug/L		84	39 - 140
2-Chloronaphthalene	30.0	26.7		ug/L		89	52 - 120
2-Chlorophenol	30.0	19.9		ug/L		66	34 - 120
4-Chlorophenyl phenyl ether	30.0	26.3		ug/L		88	58 - 124
Dibenz[a,h]acridine	30.0	31.2		ug/L		104	46 - 149
Dibenzofuran	30.0	27.0		ug/L		90	58 - 123
3,3'-Dichlorobenzidine	40.0	35.6		ug/L		89	39 - 135
2,4-Dichlorophenol	30.0	23.5		ug/L		78	39 - 128
Diethyl phthalate	30.0	26.6		ug/L		89	44 - 146
2,4-Dimethylphenol	30.0	25.5		ug/L		85	44 - 120
Dimethyl phthalate	30.0	26.5		ug/L		88	50 - 131
Di-n-butyl phthalate	30.0	26.5		ug/L		88	55 - 131
4,6-Dinitro-ortho-cresol	60.0	13.0		ug/L		22	10 - 150
2,4-Dinitrophenol	60.0	37.3		ug/L		62	10 - 150
2,4-Dinitrotoluene	30.0	26.9		ug/L		90	58 - 140
2,6-Dinitrotoluene	30.0	25.4		ug/L		85	57 - 130
Di-n-octyl phthalate	30.0	26.2		ug/L		87	50 - 150
1,4-Dioxane	30.0	14.6		ug/L		49	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.6		ug/L		89	47 - 123
Hexachlorobenzene	30.0	29.3		ug/L		98	52 - 131
Hexachlorocyclopentadiene	30.0	5.27	J	ug/L		18	10 - 129
Hexachloroethane	30.0	19.6		ug/L		65	41 - 120
Indene	30.0	26.0		ug/L		87	47 - 120
Isophorone	30.0	26.5		ug/L		88	49 - 120
2-Methylphenol	30.0	22.8		ug/L		76	39 - 123
3 & 4 Methylphenol	30.0	20.5		ug/L		68	38 - 121
2-Nitroaniline	30.0	27.0		ug/L		90	47 - 150
3-Nitroaniline	30.0	27.4		ug/L		91	34 - 132
4-Nitroaniline	30.0	36.0		ug/L		120	41 - 135
Nitrobenzene	30.0	25.7		ug/L		86	47 - 120
2-Nitrophenol	30.0	19.9		ug/L		66	28 - 136
4-Nitrophenol	60.0	38.7		ug/L		64	10 - 150
N-Nitrosodimethylamine	30.0	22.8		ug/L		76	22 - 148
N-Nitrosodi-n-propylamine	30.0	25.7		ug/L		86	44 - 120
N-Nitrosodiphenylamine	29.8	27.7		ug/L		93	56 - 120
Pentachlorophenol	60.0	43.2		ug/L		72	15 - 141
Phenol	30.0	16.3		ug/L		54	33 - 120
Pyridine	30.0	19.0		ug/L		63	26 - 120
Quinoline	30.0	28.9		ug/L		96	51 - 129
2,4,5-Trichlorophenol	30.0	24.7		ug/L		82	38 - 147
2,4,6-Trichlorophenol	30.0	25.3		ug/L		84	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*34 - 120*
2-Fluorophenol	*46*		*10 - 120*
Nitrobenzene-d5	*86*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360696/2-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	*54*		*10 - 120*
Terphenyl-d14	*118*		*53 - 125*
2,4,6-Tribromophenol	*104*		*15 - 135*

Lab Sample ID: LCS 400-360696/4-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		4	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*86*		*34 - 120*
2-Fluorophenol	*58*		*10 - 120*
Nitrobenzene-d5	*86*		*27 - 120*
Phenol-d5	*74*		*10 - 120*
Terphenyl-d14	*102*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: LCSD 400-360696/3-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	24.8		ug/L		83	29 - 120	6	30
Benzoic acid	125	24.8	J	ug/L		20	10 - 150	6	30
Benzyl alcohol	30.0	26.8		ug/L		89	19 - 125	5	30
Bis(2-chloroethoxy)methane	30.0	26.5		ug/L		88	45 - 120	2	30
Bis(2-chloroethyl)ether	30.0	25.8		ug/L		86	48 - 120	7	30
bis (2-chloroisopropyl) ether	30.0	24.2		ug/L		81	30 - 125	5	30
Bis(2-ethylhexyl) phthalate	30.0	31.3		ug/L		104	48 - 150	7	30
4-Bromophenyl phenyl ether	30.0	26.9		ug/L		90	55 - 122	0	30
Butyl benzyl phthalate	30.0	32.2		ug/L		107	46 - 145	6	30
4-Chloroaniline	30.0	26.6		ug/L		89	30 - 120	0	30
4-Chloro-3-methylphenol	30.0	25.5		ug/L		85	39 - 140	1	30
2-Chloronaphthalene	30.0	27.5		ug/L		92	52 - 120	3	30
2-Chlorophenol	30.0	22.4		ug/L		75	34 - 120	12	30
4-Chlorophenyl phenyl ether	30.0	27.3		ug/L		91	58 - 124	3	30
Dibenz[a,h]acridine	30.0	33.5		ug/L		112	46 - 149	7	30
Dibenzofuran	30.0	27.9		ug/L		93	58 - 123	3	30
3,3'-Dichlorobenzidine	40.0	38.1		ug/L		95	39 - 135	7	30
2,4-Dichlorophenol	30.0	24.6		ug/L		82	39 - 128	5	30
Diethyl phthalate	30.0	28.3		ug/L		94	44 - 146	6	30
2,4-Dimethylphenol	30.0	26.3		ug/L		88	44 - 120	3	30
Dimethyl phthalate	30.0	27.3		ug/L		91	50 - 131	3	30
Di-n-butyl phthalate	30.0	27.8		ug/L		93	55 - 131	5	30
4,6-Dinitro-ortho-cresol	60.0	14.8		ug/L		25	10 - 150	13	30
2,4-Dinitrophenol	60.0	38.6		ug/L		64	10 - 150	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360696/3-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	30.0	27.7		ug/L		92	58 - 140	3	30
2,6-Dinitrotoluene	30.0	26.0		ug/L		87	57 - 130	2	30
Di-n-octyl phthalate	30.0	28.1		ug/L		94	50 - 150	7	30
1,4-Dioxane	30.0	17.3		ug/L		58	25 - 120	17	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.0		ug/L		90	47 - 123	2	30
Hexachlorobenzene	30.0	29.9		ug/L		100	52 - 131	2	30
Hexachlorocyclopentadiene	30.0	5.64	J	ug/L		19	10 - 129	7	30
Hexachloroethane	30.0	20.8		ug/L		69	41 - 120	6	30
Indene	30.0	27.5		ug/L		92	47 - 120	5	30
Isophorone	30.0	27.0		ug/L		90	49 - 120	2	30
2-Methylphenol	30.0	25.3		ug/L		84	39 - 123	10	30
3 & 4 Methylphenol	30.0	23.2		ug/L		77	38 - 121	13	30
2-Nitroaniline	30.0	28.1		ug/L		94	47 - 150	4	30
3-Nitroaniline	30.0	28.2		ug/L		94	34 - 132	3	30
4-Nitroaniline	30.0	37.0		ug/L		123	41 - 135	3	30
Nitrobenzene	30.0	26.4		ug/L		88	47 - 120	3	30
2-Nitrophenol	30.0	20.8		ug/L		69	28 - 136	5	30
4-Nitrophenol	60.0	41.3		ug/L		69	10 - 150	7	30
N-Nitrosodimethylamine	30.0	25.5		ug/L		85	22 - 148	11	30
N-Nitrosodi-n-propylamine	30.0	26.5		ug/L		88	44 - 120	3	30
N-Nitrosodiphenylamine	29.8	27.8		ug/L		93	56 - 120	0	30
Pentachlorophenol	60.0	44.2		ug/L		74	15 - 141	2	30
Phenol	30.0	23.9	*	ug/L		80	33 - 120	38	30
Pyridine	30.0	21.7		ug/L		72	26 - 120	14	30
Quinoline	30.0	31.6		ug/L		105	51 - 129	9	30
2,4,5-Trichlorophenol	30.0	25.8		ug/L		86	38 - 147	4	30
2,4,6-Trichlorophenol	30.0	26.5		ug/L		88	36 - 139	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*93*		*34 - 120*
2-Fluorophenol	*58*		*10 - 120*
Nitrobenzene-d5	*87*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*117*		*53 - 125*
2,4,6-Tribromophenol	*106*		*15 - 135*

Lab Sample ID: LCSD 400-360696/5-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120	48	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*34 - 120*
2-Fluorophenol	*37*		*10 - 120*
Nitrobenzene-d5	*63*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360696/5-A
Matrix: Water
Analysis Batch: 361035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360696

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5	*53*		*10 - 120*
Terphenyl-d14	*100*		*53 - 125*
2,4,6-Tribromophenol	*71*		*15 - 135*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-360696/1-A
Matrix: Water
Analysis Batch: 362101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
Acenaphthylene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
Anthracene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
Benzo[a]anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Benzo[a]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Benzo[b]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Benzo[g,h,i]perylene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Benzo[k]fluoranthene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Chrysene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Dibenz(a,h)anthracene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Fluoranthene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
Fluorene	ND		0.40	0.042	ug/L		07/17/17 11:07	07/28/17 13:20	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.080	ug/L		07/17/17 11:07	07/28/17 13:20	2
Phenanthrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
Pyrene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
1-Methylnaphthalene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2
2-Methylnaphthalene	ND		0.40	0.040	ug/L		07/17/17 11:07	07/28/17 13:20	2

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*121*		*15 - 122*	*07/17/17 11:07*	*07/28/17 13:20*	*2*
Nitrobenzene-d5	*87*		*19 - 130*	*07/17/17 11:07*	*07/28/17 13:20*	*2*

Lab Sample ID: LCS 400-360696/2-A
Matrix: Water
Analysis Batch: 361993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

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	23.3		ug/L		78	44 - 120
Anthracene	30.0	25.5		ug/L		85	49 - 120
Benzo[a]anthracene	30.0	28.1		ug/L		94	61 - 135
Benzo[a]pyrene	30.0	25.7		ug/L		86	52 - 120
Benzo[b]fluoranthene	30.0	25.6		ug/L		85	53 - 134
Benzo[g,h,i]perylene	30.0	28.7		ug/L		96	47 - 133
Benzo[k]fluoranthene	30.0	28.7		ug/L		96	57 - 134
Chrysene	30.0	29.7		ug/L		99	55 - 122

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-360696/2-A
Matrix: Water
Analysis Batch: 361993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	30.0	30.8		ug/L		103	48 - 146
Fluoranthene	30.0	29.4		ug/L		98	54 - 128
Fluorene	30.0	25.7		ug/L		86	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.1		ug/L		100	43 - 142
Phenanthrene	30.0	25.8		ug/L		86	48 - 120
Pyrene	30.0	26.5		ug/L		88	48 - 132
1-Methylnaphthalene	30.0	21.5		ug/L		72	41 - 120
2-Methylnaphthalene	30.0	21.5		ug/L		72	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*102*		*15 - 122*
Nitrobenzene-d5	*61*		*19 - 130*

Lab Sample ID: LCSD 400-360696/3-A
Matrix: Water
Analysis Batch: 361993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.7		ug/L		86	41 - 120	11	56
Acenaphthylene	30.0	25.3		ug/L		84	44 - 120	8	56
Anthracene	30.0	27.6		ug/L		92	49 - 120	8	51
Benzo[a]anthracene	30.0	30.5		ug/L		102	61 - 135	8	49
Benzo[a]pyrene	30.0	27.6		ug/L		92	52 - 120	7	50
Benzo[b]fluoranthene	30.0	31.3		ug/L		104	53 - 134	20	54
Benzo[g,h,i]perylene	30.0	30.2		ug/L		101	47 - 133	5	50
Benzo[k]fluoranthene	30.0	29.3		ug/L		98	57 - 134	2	52
Chrysene	30.0	32.2		ug/L		107	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	31.7		ug/L		106	48 - 146	3	50
Fluoranthene	30.0	33.3		ug/L		111	54 - 128	12	52
Fluorene	30.0	29.2		ug/L		97	45 - 125	13	56
Indeno[1,2,3-cd]pyrene	30.0	31.6		ug/L		105	43 - 142	5	51
Phenanthrene	30.0	28.2		ug/L		94	48 - 120	9	56
Pyrene	30.0	28.1		ug/L		94	48 - 132	6	52
1-Methylnaphthalene	30.0	22.9		ug/L		76	41 - 120	6	55
2-Methylnaphthalene	30.0	23.1		ug/L		77	32 - 124	7	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*108*		*15 - 122*
Nitrobenzene-d5	*63*		*19 - 130*

Lab Sample ID: MB 400-362486/1-A
Matrix: Water
Analysis Batch: 362601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.20	0.020	ug/L		08/01/17 11:03	08/02/17 16:27	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-362486/1-A
Matrix: Water
Analysis Batch: 362601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362486

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	119		33 - 138	08/01/17 11:03	08/02/17 16:27	1
2-Fluorobiphenyl	86		15 - 122	08/01/17 11:03	08/02/17 16:27	1
Nitrobenzene-d5	85		19 - 130	08/01/17 11:03	08/02/17 16:27	1

Lab Sample ID: LCS 400-362486/2-A
Matrix: Water
Analysis Batch: 362601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	30.0	24.8		ug/L		83	41 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	89		33 - 138
2-Fluorobiphenyl	86		15 - 122
Nitrobenzene-d5	86		19 - 130

Lab Sample ID: LCSD 400-362486/3-A
Matrix: Water
Analysis Batch: 362601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362486

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	30.0	27.2		ug/L		91	41 - 120	9	55

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	85		33 - 138
2-Fluorobiphenyl	89		15 - 122
Nitrobenzene-d5	90		19 - 130

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-360825/1-A
Matrix: Water
Analysis Batch: 361571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360825

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		07/18/17 09:24	07/25/17 13:02	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/18/17 09:24	07/25/17 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	126		51 - 149	07/18/17 09:24	07/25/17 13:02	1

Lab Sample ID: LCS 400-360825/2-A
Matrix: Water
Analysis Batch: 361571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.400	0.593	*	ug/L		148	60 - 140

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCS 400-360825/2-A
Matrix: Water
Analysis Batch: 361571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	0.400	0.474		ug/L		118	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*134*		*51 - 149*

Lab Sample ID: LCSD 400-360825/3-A
Matrix: Water
Analysis Batch: 361571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.400	0.719	*	ug/L		180	60 - 140	19	30
1,2-Dibromoethane	0.400	0.504		ug/L		126	60 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*146*		*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 # 1364508 (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 #: 60527968 - 1.03.003 / 1.03.0033

GSAP Project ID: USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 07/12/17

PAGE: 1 of 3

SAMPLING COMPANY: AECOM

LOG CODE:

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

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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

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; melissa.remiger@aecom.com

SAMPLER NAME(S) (Print): J. Peters, M. Kamick

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LLEVEL 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 60527968 - 1.03.0033 | NON-UNIT COST 60527968 - 1.03.003

400-140528 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°: 0.2 IR-7, 1.4 IR-7, 0.9 IR-7, 31 IR-2 TP TO

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	Container PID Readings or Laboratory Notes
	P66-ROX-071217	07/12	1000	Water	4			2		6	X	X	X	X	
	P93C-ROX-071217	07/12	1110	Water	4			2		6	X	X	X	X	
	P74-ROX-071217	07/12	1220	Water	4			2		6	X	X	X	X	
	P56-ROX-071217-EB	07/12	1415	Water	4			2		6	X	X	X	X	
	P56-ROX-071217	07/12	1435	Water	4			2		6	X	X	X	X	
	TB-ROX-071217-8011	07/12	0000	Water	2					2	X				cooler #1
	TB-ROX-071217-8260	07/12	0000	Water	2					2			X		cooler #1

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	Fedex	07/12/17	
Relinquished by (Signature)	Received by (Signature) [signature]	7-13-17	08:10
Relinquished by (Signature)	Received by (Signature)	Date	Time

Version 14Dec15

*ALL VOAs in cooler #1

8/8/2017

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))

☐ Other Lab Vendor # 1364503 (TestAmerica)

Shell Oil Products US Chain Of Custody Record

AECOM

Please Check Appropriate Box:		
☐ SGW FOG	☐ 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
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 7/12/17

PAGE: 2 of 3

SAMPLING COMPANY: AECOM

LEAD EMAIL:

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

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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. Roberts, J. Clark, J. Peter, M. Karrick

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsey.rathnow@aecom.com; melissa.remiger@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES: ☑ LLEVEL 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 60527968 - 1.03.0033: VOC 8011; PAH 8270LL

NON-UNIT COST 60527968 - 1.03.003: 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	Container PID Readings or Laboratory Notes
	MW9-ROX-071217	7-12-17	0845	Water	4			2		6	X	X	X	X	
	MW5-ROX-071217-EB	7-12-17	1020	Water	4			2		6	X	X	X	X	
	MW5-ROX-071217	7-12-17	1045	Water	4			2		6	X	X	X	X	
	MW3-ROX-071217	7-12-17	0935	Water	4			2		6	X	X	X	X	
	MW2-ROX-071217	7-12-17	1245	Water	4			2		6	X	X	X	X	
	MW28-ROX-071217	7-12-17	1335	Water	4			2		6	X	X	X	X	
	POST4PEC-ROX-071217	7-12-17	1425	Water	4			2		6	X	X	X	X	
	MW22-ROX-071217	7-12-17	1520	Water	4			2		6	X	X	X	X	
	MW22-ROX-071217-DUP	7-12-17	1520	Water	4			2		6	X	X	X	X	
	TB-ROX-071217-8260-A	7-12-17	0000	Water	2					2			X		cooler # 1

Relinquished by (Signature)	Received by (Signature)	Date	Time
Jillian Roberts	Fedex	07/12/17	
Relinquished by (Signature)	Received by (Signature)	Date	Time
		7-13-17	08:10
Relinquished by (Signature)	Received by (Signature)	Date	Time

Version 14Dec15

* ALL VOAs in cooler #1

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 # 13643589 (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
Bob Billman	25278
PO #	GSAP Project ID
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 07/12/17

PAGE: 3 of 3

SAMPLING COMPANY: AECOM

LOG CODE:

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

State: IL

AECOM Project / Task Number: Roxana Quarterly GW 60527968 - 1.03.003 / 1.03.0033

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. Roberts, J Clark, J. Peters, M. Karrick

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; melissa.remiger@aecom.com

TURNAROUND TIME (BUSINESS DAYS)

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

☐ LA - RWQCB REPORT FORMAT

DELIVERABLES ☑ LLEVEL 2 ☐ LEV☑ 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 DATA

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 60527968 - 1.03.0033: VOC 8011	PAH 8270LL	NON-UNIT COST 60527968 - 1.03.003: VOC 8260	SVOC 8270	FIELD NOTES: Container PID Readings or Laboratory Notes
	TB-LOX-07127-8011-A	7/12/17	0000	water	2					2	X				cooler #1

Relinquished by (Signature): Jillian Roberts — Received by (Signature): [signature] — Date: 7-13-17 — Time: 08:10

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

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

Version 14Dec16

*ALL VOAs in cooler #1.

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140528-1

Login Number: 140528
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	0.2°C 0.9°C,1.4°C 3.1°C IR2
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	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140528-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Roxana Groundwater Quarterly – 3rd Quarter 2017 Data Review

Laboratory SDG: 400-140621-1-R1

Data Reviewer: Melissa Remiger

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/29/2017

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2017

Sample Identification	Sample Identification
P59-ROX-071317	T12-ROX-071317
P57-ROX-071317	P93A-ROX-071317
P58-ROX-071317	TB-ROX-071317-8260-A
TB-ROX-071317-8011-A	

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 PAHs were re-analyzed outside of holding time criteria in sample P58-ROX-071317. Bis(2-ethylhexyl) phthalate was detected in the method blank. Several LCS/LCSD recoveries and LCS/LCSD RPDs were outside evaluation criteria. Several PAH and SVOC surrogate recoveries were outside criteria in several samples. VOCs, PAHs, and phenol in several samples were diluted due to high levels of target analytes. The continuing calibration verification for hexachlorocyclopentadiene, and dibenz[a,h]acridine was outside evaluation criteria, biased low. These issues are addressed further in the appropriate sections of this Data Review. Additionally, the continuing calibration verification recoveries for 2,4,6-tribromophenol, 4,6-dinito-ortho-cresol, dibenz[a,h]acridine, fluoranthene, were above method acceptance criteria indicating a possible high bias; associated samples were non-detect and did not require qualification. The laboratory report was revised on August 30, 2017 to include the SVOC method blank that was inadvertently missing from the original report.

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 not requested; no qualification of data was required. Although not indicated in the sample receipt form, trip blank ID TB-ROX-071317-8260-A was reported incorrectly by the laboratory; trip blank IDs were correctly reported by AECOM. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, PAHs were re-analyzed 1 day outside of the holding time criteria (7 days) in sample P58-ROX-071317 due to surrogate failure in the initial analysis. 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
P58-ROX-071317 Run#2	PAHs	Acenaphthene	J
P58-ROX-071317 Run#2	PAHs	Acenaphthylene	UJ
P58-ROX-071317 Run#2	PAHs	Anthracene	UJ
P58-ROX-071317 Run#2	PAHs	Benzo[a]anthracene	UJ
P58-ROX-071317 Run#2	PAHs	Benzo[a]pyrene	J
P58-ROX-071317 Run#2	PAHs	Benzo[b]fluoranthene	UJ
P58-ROX-071317 Run#2	PAHs	Benzo[g,h,i]perylene	UJ
P58-ROX-071317 Run#2	PAHs	Benzo[k]fluoranthene	UJ
P58-ROX-071317 Run#2	PAHs	Chrysene	UJ
P58-ROX-071317 Run#2	PAHs	Dibenz(a,h)anthracene	UJ
P58-ROX-071317 Run#2	PAHs	Fluoranthene	UJ
P58-ROX-071317 Run#2	PAHs	Fluorene	J
P58-ROX-071317 Run#2	PAHs	Indeno[1,2,3-cd]pyrene	UJ
P58-ROX-071317 Run#2	PAHs	Phenanthrene	J
P58-ROX-071317 Run#2	PAHs	Pyrene	J
P58-ROX-071317 Run#2	PAHs	1-Methylnaphthalene	J
P58-ROX-071317 Run#2	PAHs	2-Methylnaphthalene	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
MB 400-360871/1-A	SVOCs	Bis(2-ethylhexyl) phthalate	4.62 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
P59-ROX-071317	SVOCs	Bis(2-ethylhexyl) phthalate	14 µg/L	U
P57-ROX-071317	SVOCs	Bis(2-ethylhexyl) phthalate	-	U
P93A-ROX-071317	SVOCs	Bis(2-ethylhexyl) phthalate	-	U
P58-ROX-071317	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 400-360871/11-A/12-A	SVOCs	Benzenethiol	**2**/20	**163**	10-120/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	Benzoic acid	**5/5**	1	10-150/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	2,4-Dichlorophenol	**33/26**	24	39-128/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	2,4-Dinitrophenol	17/**0**	**200**	10-150/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	Hexachlorocyclopentadiene	**0/0**	**NC**	10-129/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	4-Nitrophenol	23/50	**73**	10-150/30
LCS/LCSD 400-360871/2-A/3-A	SVOCs	Pentachlorophenol	53/**9**	**140**	15-141/30
LCS/LCSD 400-361896/2-A/3-A	VOCs by 8011	1,2-Dibromo-3-chloropropane	**161/154**	2	60-140/30
LCS/LCSD 400-361896/2-A/3-A	VOCs by 8011	1,2-Dibromoethane	**180**/138	26	60-140/30

Analytical data that required qualification based on LCS/LCSD data are included in the table below. Analytical data associated with RPD alone outside evaluation criteria did not require qualification. Professional judgment was used to qualify, however not reject, data associated with benzoic acid, 2,4-dinitrophenol, hexachlorocycopentadiene, and pentachlorophenol in LCS/LCSD 400-360871/2-A/3-A and benzenethiol in LCS 400-360871/11-A; benzenethiol has been identified as a poor performing analyte under Method 8270.

Sample ID	Parameter	Analyte	Qualification
P59-ROX-071317	SVOCs	Benzenethiol	**UJ**
P59-ROX-071317	SVOCs	Benzoic acid	**UJ**
P59-ROX-071317	SVOCs	2,4-Dichlorophenol	**UJ**
P59-ROX-071317	SVOCs	2,4-Dinitrophenol	**UJ**
P59-ROX-071317	SVOCs	Hexachlorocyclopentadiene	**UJ**
P59-ROX-071317	SVOCs	Pentachlorophenol	**UJ**
T12-ROX-071317	SVOCs	Benzenethiol	**UJ**
T12-ROX-071317	SVOCs	Benzoic acid	**UJ**
T12-ROX-071317	SVOCs	2,4-Dichlorophenol	**UJ**
T12-ROX-071317	SVOCs	2,4-Dinitrophenol	**UJ**
T12-ROX-071317	SVOCs	Hexachlorocyclopentadiene	**UJ**
T12-ROX-071317	SVOCs	Pentachlorophenol	**UJ**
P57-ROX-071317	SVOCs	Benzenethiol	**UJ**
P57-ROX-071317	SVOCs	Benzoic acid	**UJ**

Sample ID	Parameter	Analyte	Qualification
P57-ROX-071317	SVOCs	2,4-Dichlorophenol	**UJ**
P57-ROX-071317	SVOCs	2,4-Dinitrophenol	**UJ**
P57-ROX-071317	SVOCs	Hexachlorocyclopentadiene	**UJ**
P57-ROX-071317	SVOCs	Pentachlorophenol	**UJ**
P93A-ROX-071317	SVOCs	Benzenethiol	**UJ**
P93A-ROX-071317	SVOCs	Benzoic acid	**UJ**
P93A-ROX-071317	SVOCs	2,4-Dichlorophenol	**UJ**
P93A-ROX-071317	SVOCs	2,4-Dinitrophenol	**UJ**
P93A-ROX-071317	SVOCs	Hexachlorocyclopentadiene	**UJ**
P93A-ROX-071317	SVOCs	Pentachlorophenol	**UJ**
P58-ROX-071317	SVOCs	Benzenethiol	**UJ**
P58-ROX-071317	SVOCs	Benzoic acid	**UJ**
P58-ROX-071317	SVOCs	2,4-Dichlorophenol	**UJ**
P58-ROX-071317	SVOCs	2,4-Dinitrophenol	**UJ**
P58-ROX-071317	SVOCs	Hexachlorocyclopentadiene	**UJ**
P58-ROX-071317	SVOCs	Pentachlorophenol	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P59-ROX-071317	SVOCs	2-Fluorophenol	**7**	10-120
P57-ROX-071317	SVOCs	Terphenyl-d_{14}	**48**	53-125
P58-ROX-071317 Run#1	PAHs	Terphenyl-d_{14}	**0.09**	33-138
P58-ROX-071317 Run#1	PAHs	2-Fluorobiphenyl	**0.02**	15-122
P58-ROX-071317 Run#1	PAHs	Nitrobenzene-d_5	**2**	19-130
P58-ROX-071317	SVOCs	2-Fluorobiphenyl	**0**	34-120
P58-ROX-071317	SVOCs	2-Fluorophenol	**0**	10-120
P58-ROX-071317	SVOCs	Nitrobenzene-d_5	**0.2**	27-120
P58-ROX-071317	SVOCs	Phenol-d_5	**0.4**	10-120
P58-ROX-071317	SVOCs	Terphenyl-d_{14}	**0**	53-125
P58-ROX-071317	SVOCs	2,4,6-Tribromophenol	**0**	15-135
MB 400-361346/1-A	PAHs	Terphenyl-d_{14}	**32**	33-138

Analytical data that required qualification based on surrogate recovery outside evaluation criteria are included in the table below. Qualifications due to surrogate recoveries were not required if only one of three base/neutral or acid fraction surrogate recoveries were outside evaluation criteria in the associated PAH or SVOC samples. PAHs in sample P58-ROX-071317 were reported from Run#2, and are qualified due to holding time criteria in Section 3.0 of this Data Review. Method blank MB 400-361346/1-A is a quality control sample and does not require qualification.

Sample ID	Parameter	Analyte	Qualification
P58-ROX-071317	SVOCs	All non-detects	**UJ**
P58-ROX-071317	SVOCs	Bis(2-ethylhexyl) phthalate	**UJ**

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?

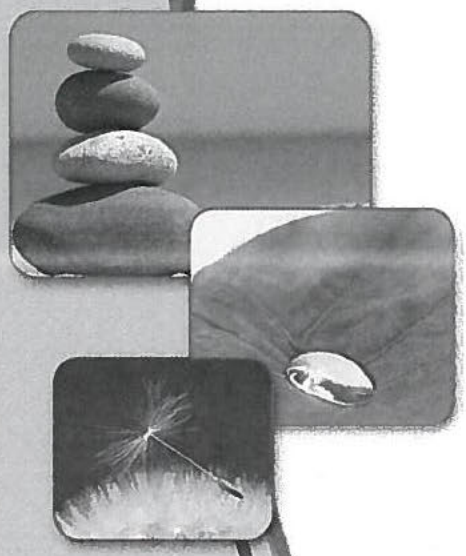
Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, the continuing calibration verification for 4-nitrophenol, hexachlorocyclopentadiene, and dibenz[a,h]acridine was below acceptance criteria and are qualified as summarized in the following table.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
P59-ROX-071317	SVOCs	Dibenz[a,h]acridine	-	**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: 400-140621-1
Client Project/Site: ROXANA QUARTERLY
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:
8/30/2017 4:45:52 PM

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Reviewed on 9/11/2017

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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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Detection Summary 6
Client Sample Results 9
Definitions 32
Surrogate Summary 33
Method Summary 35
Chronicle 36
QC Association 41
QC Sample Results 44
Chain of Custody 61
Receipt Checklists 62
Certification Summary 63

Job ID: 400-140621-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-140621-1

Receipt
The samples were received on 7/15/2017 8:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 2.4°C.

GC/MS VOA
Method 8260B:
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-361302 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.

The RPD for the matrix spike / matrix spike duplicate (MS/MSD) for 2-Chloroethyl vinyl ether was not calculable for analytical batch 400-361302 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: P59-ROX-071317 (400-140621-1), T12-ROX-071317 (400-140621-2), P57-ROX-071317 (400-140621-3), P93A-ROX-071317 (400-140621-4), P58-ROX-071317 (400-140621-5) and TB-ROX-071317-8026-A (400-140621-6). 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 400-361302 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270D:
The continuing calibration verification (CCV) associated with batch 400-361125 recovered above the upper control limit for 2,4,6-Tribromophenol and 4,6-Dinitro-ortho-cresol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: P59-ROX-071317 (400-140621-1) and (MB 400-360871/1-A).

The continuing calibration verification (CCV) associated with batch 400-361125 recovered outside acceptance criteria, low biased, for Dibenz[a,h]acridine and Hexachlorocyclopentadiene. 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.

Surrogate recovery for the following sample was outside control limits: P59-ROX-071317 (400-140621-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The method blank for preparation batch 400-360871 and analytical batch 400-361125 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.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-360871 and analytical batch 400-361330 recovered outside control limits for the following analytes: Benzoic acid and Benzenethiol. Benzoic acid and Benzenethiol have 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 analytes. 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: P57-ROX-071317 (400-140621-3). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 400-361330 recovered above the upper control limit for Dibenz[a,h]acridine. The sample associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample are impacted: T12-ROX-071317 (400-140621-2), P57-ROX-071317 (400-140621-3), P93A-ROX-071317 (400-140621-4) and P58-ROX-071317 (400-140621-5).

Job ID: 400-140621-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

The following samples were diluted to bring the concentration of target analytes within the calibration range: P57-ROX-071317 (400-140621-3) and P58-ROX-071317 (400-140621-5). Elevated reporting limits (RLs) are provided.

Surrogate recovery for the following sample was outside of acceptance limits: P58-ROX-071317 (400-140621-5). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-360871 and analytical batch 400-361330 recovered outside control limits for the following analytes: Pentachlorophenol, 2,4-Dinitrophenol, 4-Nitrophenol and Hexachlorocyclopentadiene.

The following analytes recovered outside control limits for the LCS/LCSD associated with preparation batch 400-360871 and analytical batch 400-361330: 2,4-Dichlorophenol, Pentachlorophenol, 2,4-Dinitrophenol and Hexachlorocyclopentadiene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270D LL:
The following sample was diluted due to the nature of the sample matrix: P58-ROX-071317 (400-140621-5). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 400-361519 recovered above the upper control limit for Fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: P58-ROX-071317 (400-140621-5).

The following sample was re-prepared outside of preparation holding time due to surrogates failed in the original analysis: P58-ROX-071317 (400-140621-5). Both data have been reported.

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 sample contained an allowable number of surrogate compounds outside limits: (MB 400-361346/1-A). These results have been reported and qualified.

GC Semi VOA
Method 8011:
The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-361896 and analytical batch 400-362028 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and 1,2-Dibromoethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Organic Prep
Method 3520C:
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-360871.

Revision 1
This report has been revised to include the Method Blank (MB 400-360871/1-A) - Analysis Batch 361125 for SVOCs_8270D that was inadvertently missing from the original report.

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

TestAmerica Job ID: 400-140621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-140621-1	P59-ROX-071317	Water	07/13/17 10:00	07/15/17 08:49
400-140621-2	T12-ROX-071317	Water	07/13/17 10:45	07/15/17 08:49
400-140621-3	P57-ROX-071317	Water	07/13/17 11:25	07/15/17 08:49
400-140621-4	P93A-ROX-071317	Water	07/13/17 11:45	07/15/17 08:49
400-140621-5	P58-ROX-071317	Water	07/13/17 12:15	07/15/17 08:49
400-140621-6	TB-ROX-071317-8026-A	Water	07/13/17 00:00	07/15/17 08:49
400-140621-7	TB-ROX-071317-8011-A	Water	07/13/17 00:00	07/15/17 08:49

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: P59-ROX-071317

Lab Sample ID: 400-140621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7700		50	19	ug/L	50		8260B	Total/NA
Ethylbenzene	1900		50	25	ug/L	50		8260B	Total/NA
Isopropylbenzene	51		50	27	ug/L	50		8260B	Total/NA
m-Xylene & p-Xylene	3500		250	80	ug/L	50		8260B	Total/NA
Naphthalene	180		50	50	ug/L	50		8260B	Total/NA
N-Propylbenzene	100		50	35	ug/L	50		8260B	Total/NA
o-Xylene	130	J	250	30	ug/L	50		8260B	Total/NA
Toluene	2100		50	35	ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	630		50	41	ug/L	50		8260B	Total/NA
1,3,5-Trimethylbenzene	150		50	28	ug/L	50		8260B	Total/NA
Xylenes, Total	3600		500	80	ug/L	50		8260B	Total/NA
Acenaphthene	0.42		0.20	0.020	ug/L	1		8270D LL	Total/NA
Benzo[a]pyrene	0.051	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Benzo[b]fluoranthene	0.051	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Chrysene	0.056	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.16	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.54		0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	21		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	34		0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	14	B	10	2.3	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	12		10	3.5	ug/L	1		8270D	Total/NA
Indene	18		10	1.0	ug/L	1		8270D	Total/NA
Phenol	66		10	2.6	ug/L	1		8270D	Total/NA

Client Sample ID: T12-ROX-071317

Lab Sample ID: 400-140621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		10	3.8	ug/L	10		8260B	Total/NA
Ethylbenzene	53		10	5.0	ug/L	10		8260B	Total/NA
Isopropylbenzene	6.4	J	10	5.3	ug/L	10		8260B	Total/NA
Methyl tert-butyl ether	24		10	7.4	ug/L	10		8260B	Total/NA
m-Xylene & p-Xylene	200		50	16	ug/L	10		8260B	Total/NA
Naphthalene	61		10	10	ug/L	10		8260B	Total/NA
N-Propylbenzene	9.1	J	10	6.9	ug/L	10		8260B	Total/NA
Toluene	80		10	7.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	33		10	8.2	ug/L	10		8260B	Total/NA
Xylenes, Total	210		100	16	ug/L	10		8260B	Total/NA
Acenaphthene	0.46		0.19	0.019	ug/L	1		8270D LL	Total/NA
Anthracene	0.14	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.041	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
Fluorene	0.27		0.19	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.53		0.19	0.019	ug/L	1		8270D LL	Total/NA
Pyrene	0.072	J	0.19	0.019	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	18		0.19	0.019	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	26		0.19	0.019	ug/L	1		8270D LL	Total/NA
Di-n-butyl phthalate	3.5	J	9.5	2.6	ug/L	1		8270D	Total/NA
Indene	1.4	J	9.5	0.95	ug/L	1		8270D	Total/NA
Phenol	28		9.5	2.5	ug/L	1		8270D	Total/NA

Client Sample ID: P57-ROX-071317

Lab Sample ID: 400-140621-3

This Detection Summary does not include radiochemical test results.

Client Sample ID: P57-ROX-071317 (Continued)

Lab Sample ID: 400-140621-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	43000		200	76	ug/L	200		8260B	Total/NA
Ethylbenzene	180	J	200	100	ug/L	200		8260B	Total/NA
Acenaphthene	0.56		0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.54		0.20	0.021	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.38		0.20	0.020	ug/L	1		8270D LL	Total/NA
Pyrene	0.066	J	0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	23		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	30		0.20	0.020	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	4.1	J B	9.9	2.2	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	25		9.9	3.5	ug/L	1		8270D	Total/NA
Phenol - DL	630		99	26	ug/L	10		8270D	Total/NA

Client Sample ID: P93A-ROX-071317

Lab Sample ID: 400-140621-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	83		1.0	0.38	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.16	J	0.37	0.037	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	0.18	J	0.37	0.037	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	9.4	J B	19	4.2	ug/L	1		8270D	Total/NA

Client Sample ID: P58-ROX-071317

Lab Sample ID: 400-140621-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130000		1000	380	ug/L	1000		8260B	Total/NA
Acenaphthene	0.69		0.20	0.020	ug/L	1		8270D LL	Total/NA
Acenaphthene	0.58	H	0.39	0.039	ug/L	2		8270D LL	Total/NA
Benzo[a]pyrene	0.13	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Benzo[a]pyrene	0.083	J H	0.39	0.078	ug/L	2		8270D LL	Total/NA
Benzo[b]fluoranthene	0.12	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Benzo[g,h,i]perylene	0.097	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Benzo[k]fluoranthene	0.078	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Chrysene	0.21		0.20	0.040	ug/L	1		8270D LL	Total/NA
Dibenz(a,h)anthracene	0.15	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.43		0.20	0.020	ug/L	1		8270D LL	Total/NA
Fluorene	0.86		0.20	0.021	ug/L	1		8270D LL	Total/NA
Fluorene	0.88	H	0.39	0.041	ug/L	2		8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.11	J	0.20	0.040	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.83		0.20	0.020	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.97	H	0.39	0.039	ug/L	2		8270D LL	Total/NA
Pyrene	0.88		0.20	0.020	ug/L	1		8270D LL	Total/NA
Pyrene	0.64	H	0.39	0.039	ug/L	2		8270D LL	Total/NA
1-Methylnaphthalene	36		0.20	0.020	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	37	H	0.39	0.039	ug/L	2		8270D LL	Total/NA
2-Methylnaphthalene	38		0.20	0.020	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	38	H	0.39	0.039	ug/L	2		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	10	B	10	2.3	ug/L	1		8270D	Total/NA
Phenol - DL	460		50	13	ug/L	5		8270D	Total/NA

Client Sample ID: TB-ROX-071317-8026-A

Lab Sample ID: 400-140621-6

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: TB-ROX-071317-8011-A **Lab Sample ID: 400-140621-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: P59-ROX-071317
Date Collected: 07/13/17 10:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-1
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			07/21/17 20:57	50
Acrolein	ND		1000	500	ug/L			07/21/17 20:57	50
Acrylonitrile	ND		500	140	ug/L			07/21/17 20:57	50
Benzene	**7700**		50	19	ug/L			07/21/17 20:57	50
Bromobenzene	ND		50	27	ug/L			07/21/17 20:57	50
Bromochloromethane	ND		50	26	ug/L			07/21/17 20:57	50
Bromodichloromethane	ND		50	25	ug/L			07/21/17 20:57	50
Bromoform	ND		250	36	ug/L			07/21/17 20:57	50
Bromomethane	ND		50	49	ug/L			07/21/17 20:57	50
2-Butanone (MEK)	ND		1300	130	ug/L			07/21/17 20:57	50
Carbon disulfide	ND		50	25	ug/L			07/21/17 20:57	50
Carbon tetrachloride	ND		50	25	ug/L			07/21/17 20:57	50
Chlorobenzene	ND		50	25	ug/L			07/21/17 20:57	50
Dibromochloromethane	ND		50	25	ug/L			07/21/17 20:57	50
Chloroethane	ND		50	38	ug/L			07/21/17 20:57	50
2-Chloroethyl vinyl ether	ND		250	100	ug/L			07/21/17 20:57	50
Chloroform	ND		50	30	ug/L			07/21/17 20:57	50
1-Chlorohexane	ND		50	35	ug/L			07/21/17 20:57	50
Chloromethane	ND		50	42	ug/L			07/21/17 20:57	50
cis-1,2-Dichloroethene	ND		50	25	ug/L			07/21/17 20:57	50
cis-1,3-Dichloropropene	ND		250	25	ug/L			07/21/17 20:57	50
1,2-Dichlorobenzene	ND		50	25	ug/L			07/21/17 20:57	50
1,3-Dichlorobenzene	ND		50	27	ug/L			07/21/17 20:57	50
1,4-Dichlorobenzene	ND		50	32	ug/L			07/21/17 20:57	50
Dichlorodifluoromethane	ND		50	43	ug/L			07/21/17 20:57	50
1,1-Dichloroethane	ND		50	25	ug/L			07/21/17 20:57	50
1,2-Dichloroethane	ND		50	25	ug/L			07/21/17 20:57	50
1,1-Dichloroethene	ND		50	25	ug/L			07/21/17 20:57	50
1,2-Dichloropropane	ND		50	25	ug/L			07/21/17 20:57	50
1,3-Dichloropropane	ND		50	25	ug/L			07/21/17 20:57	50
2,2-Dichloropropane	ND		50	25	ug/L			07/21/17 20:57	50
1,1-Dichloropropene	ND		50	25	ug/L			07/21/17 20:57	50
Ethylbenzene	**1900**		50	25	ug/L			07/21/17 20:57	50
Ethyl methacrylate	ND		50	30	ug/L			07/21/17 20:57	50
Hexachlorobutadiene	ND		250	45	ug/L			07/21/17 20:57	50
2-Hexanone	ND		1300	160	ug/L			07/21/17 20:57	50
Isopropylbenzene	**51**		50	27	ug/L			07/21/17 20:57	50
Methylene bromide	ND		250	30	ug/L			07/21/17 20:57	50
Methylene Chloride	ND		250	150	ug/L			07/21/17 20:57	50
4-Methyl-2-pentanone (MIBK)	ND		1300	90	ug/L			07/21/17 20:57	50
Methyl tert-butyl ether	ND		50	37	ug/L			07/21/17 20:57	50
m-Xylene & p-Xylene	**3500**		250	80	ug/L			07/21/17 20:57	50
Naphthalene	**180**		50	50	ug/L			07/21/17 20:57	50
n-Butylbenzene	ND		50	38	ug/L			07/21/17 20:57	50
N-Propylbenzene	**100**		50	35	ug/L			07/21/17 20:57	50
o-Chlorotoluene	ND		50	29	ug/L			07/21/17 20:57	50
o-Xylene	**130**	**J**	250	30	ug/L			07/21/17 20:57	50
p-Chlorotoluene	ND		50	28	ug/L			07/21/17 20:57	50
p-Isopropyltoluene	ND		50	36	ug/L			07/21/17 20:57	50

Client Sample ID: P59-ROX-071317
Date Collected: 07/13/17 10:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		50	35	ug/L			07/21/17 20:57	50
Styrene	ND		50	50	ug/L			07/21/17 20:57	50
tert-Butylbenzene	ND		50	32	ug/L			07/21/17 20:57	50
1,1,1,2-Tetrachloroethane	ND		50	26	ug/L			07/21/17 20:57	50
1,1,2,2-Tetrachloroethane	ND		50	25	ug/L			07/21/17 20:57	50
Tetrachloroethene	ND		50	29	ug/L			07/21/17 20:57	50
Toluene	**2100**		50	35	ug/L			07/21/17 20:57	50
trans-1,2-Dichloroethene	ND		50	25	ug/L			07/21/17 20:57	50
trans-1,3-Dichloropropene	ND		250	25	ug/L			07/21/17 20:57	50
1,2,3-Trichlorobenzene	ND		50	35	ug/L			07/21/17 20:57	50
1,2,4-Trichlorobenzene	ND		50	41	ug/L			07/21/17 20:57	50
1,1,1-Trichloroethane	ND		50	25	ug/L			07/21/17 20:57	50
1,1,2-Trichloroethane	ND		250	25	ug/L			07/21/17 20:57	50
Trichloroethene	ND		50	25	ug/L			07/21/17 20:57	50
Trichlorofluoromethane	ND		50	26	ug/L			07/21/17 20:57	50
1,2,3-Trichloropropane	ND		250	42	ug/L			07/21/17 20:57	50
1,2,4-Trimethylbenzene	**630**		50	41	ug/L			07/21/17 20:57	50
1,3,5-Trimethylbenzene	**150**		50	28	ug/L			07/21/17 20:57	50
Vinyl acetate	ND		1300	100	ug/L			07/21/17 20:57	50
Vinyl chloride	ND		50	25	ug/L			07/21/17 20:57	50
Xylenes, Total	**3600**		500	80	ug/L			07/21/17 20:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*07/21/17 20:57*	*50*
Dibromofluoromethane	*95*		*81 - 121*		*07/21/17 20:57*	*50*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/21/17 20:57*	*50*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.42**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
Anthracene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Benzo[a]pyrene	**0.051**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Benzo[b]fluoranthene	**0.051**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Chrysene	**0.056**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Fluoranthene	**0.16**	J	0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
Fluorene	ND		0.20	0.021	ug/L		07/18/17 11:39	07/20/17 14:48	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 14:48	1
Phenanthrene	**0.54**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
Pyrene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
1-Methylnaphthalene	**21**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1
2-Methylnaphthalene	**34**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*65*		*33 - 138*	*07/18/17 11:39*	*07/20/17 14:48*	*1*
2-Fluorobiphenyl	*45*		*15 - 122*	*07/18/17 11:39*	*07/20/17 14:48*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: P59-ROX-071317
Date Collected: 07/13/17 10:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-1
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	50		19 - 130	07/18/17 11:39	07/20/17 14:48	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		07/18/17 11:39	07/20/17 20:38	1
Benzenethiol	ND	UJ	10	1.7	ug/L		07/18/17 11:39	07/20/17 20:38	1
Benzoic acid	ND	* UJ	30	7.3	ug/L		07/18/17 11:39	07/20/17 20:38	1
Benzyl alcohol	ND		10	2.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/18/17 11:39	07/20/17 20:38	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/18/17 11:39	07/20/17 20:38	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/18/17 11:39	07/20/17 20:38	1
Bis(2-ethylhexyl) phthalate	~~14~~	~~B~~ U	~~10~~ 14	2.3	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/18/17 11:39	07/20/17 20:38	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Chloroaniline	ND		10	3.4	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/18/17 11:39	07/20/17 20:38	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/18/17 11:39	07/20/17 20:38	1
2-Chlorophenol	ND		10	2.2	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Dibenz[a,h]acridine	ND	UJ	10	3.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Dibenzofuran	ND		10	0.52	ug/L		07/18/17 11:39	07/20/17 20:38	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4-Dichlorophenol	ND	* UJ	10	3.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Diethyl phthalate	ND		10	0.70	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4-Dimethylphenol	12		10	3.5	ug/L		07/18/17 11:39	07/20/17 20:38	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/18/17 11:39	07/20/17 20:38	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/18/17 11:39	07/20/17 20:38	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4-Dinitrophenol	ND	* UJ	30	3.4	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/20/17 20:38	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/18/17 11:39	07/20/17 20:38	1
1,4-Dioxane	ND		10	1.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/18/17 11:39	07/20/17 20:38	1
Hexachlorocyclopentadiene	ND	* UJ	20	2.6	ug/L		07/18/17 11:39	07/20/17 20:38	1
Hexachloroethane	ND		10	4.2	ug/L		07/18/17 11:39	07/20/17 20:38	1
Indene	18		10	1.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
Isophorone	ND		10	0.57	ug/L		07/18/17 11:39	07/20/17 20:38	1
2-Methylphenol	ND		10	1.8	ug/L		07/18/17 11:39	07/20/17 20:38	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
2-Nitroaniline	ND		10	2.2	ug/L		07/18/17 11:39	07/20/17 20:38	1
3-Nitroaniline	ND		10	1.8	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Nitroaniline	ND		10	2.5	ug/L		07/18/17 11:39	07/20/17 20:38	1
Nitrobenzene	ND		10	0.55	ug/L		07/18/17 11:39	07/20/17 20:38	1
2-Nitrophenol	ND		10	0.65	ug/L		07/18/17 11:39	07/20/17 20:38	1
4-Nitrophenol	ND	*	10	2.1	ug/L		07/18/17 11:39	07/20/17 20:38	1
N-Nitrosodimethylamine	ND	*	10	3.5	ug/L		07/18/17 11:39	07/20/17 20:38	1

Client Sample ID: P59-ROX-071317
Date Collected: 07/13/17 10:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-1
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		10	3.3	ug/L		07/18/17 11:39	07/20/17 20:38	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/18/17 11:39	07/20/17 20:38	1
Pentachlorophenol	ND	* UJ	20	1.8	ug/L		07/18/17 11:39	07/20/17 20:38	1
Phenol	**66**		10	2.6	ug/L		07/18/17 11:39	07/20/17 20:38	1
Pyridine	ND	*	10	3.2	ug/L		07/18/17 11:39	07/20/17 20:38	1
Quinoline	ND		10	6.0	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/18/17 11:39	07/20/17 20:38	1
2,4,6-Trichlorophenol	ND	*	10	3.5	ug/L		07/18/17 11:39	07/20/17 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*07/18/17 11:39*	*07/20/17 20:38*	*1*
2-Fluorophenol	*7*	X	*10 - 120*	*07/18/17 11:39*	*07/20/17 20:38*	*1*
Nitrobenzene-d5	*63*		*27 - 120*	*07/18/17 11:39*	*07/20/17 20:38*	*1*
Phenol-d5	*46*		*10 - 120*	*07/18/17 11:39*	*07/20/17 20:38*	*1*
Terphenyl-d14	*66*		*53 - 125*	*07/18/17 11:39*	*07/20/17 20:38*	*1*
2,4,6-Tribromophenol	*101*		*15 - 135*	*07/18/17 11:39*	*07/20/17 20:38*	*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	*	0.032	0.0058	ug/L		07/27/17 08:31	07/28/17 06:44	1
1,2-Dibromoethane	ND	*	0.021	0.0053	ug/L		07/27/17 08:31	07/28/17 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*51 - 149*	*07/27/17 08:31*	*07/28/17 06:44*	*1*

Client Sample ID: T12-ROX-071317
Date Collected: 07/13/17 10:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-2
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			07/21/17 20:08	10
Acrolein	ND		200	100	ug/L			07/21/17 20:08	10
Acrylonitrile	ND		100	28	ug/L			07/21/17 20:08	10
Benzene	**1200**		10	3.8	ug/L			07/21/17 20:08	10
Bromobenzene	ND		10	5.4	ug/L			07/21/17 20:08	10
Bromochloromethane	ND		10	5.2	ug/L			07/21/17 20:08	10
Bromodichloromethane	ND		10	5.0	ug/L			07/21/17 20:08	10
Bromoform	ND		50	7.1	ug/L			07/21/17 20:08	10
Bromomethane	ND		10	9.8	ug/L			07/21/17 20:08	10
2-Butanone (MEK)	ND		250	26	ug/L			07/21/17 20:08	10
Carbon disulfide	ND		10	5.0	ug/L			07/21/17 20:08	10
Carbon tetrachloride	ND		10	5.0	ug/L			07/21/17 20:08	10
Chlorobenzene	ND		10	5.0	ug/L			07/21/17 20:08	10
Dibromochloromethane	ND		10	5.0	ug/L			07/21/17 20:08	10
Chloroethane	ND		10	7.6	ug/L			07/21/17 20:08	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			07/21/17 20:08	10
Chloroform	ND		10	6.0	ug/L			07/21/17 20:08	10
1-Chlorohexane	ND		10	7.0	ug/L			07/21/17 20:08	10
Chloromethane	ND		10	8.3	ug/L			07/21/17 20:08	10
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			07/21/17 20:08	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			07/21/17 20:08	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			07/21/17 20:08	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			07/21/17 20:08	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			07/21/17 20:08	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			07/21/17 20:08	10
1,1-Dichloroethane	ND		10	5.0	ug/L			07/21/17 20:08	10
1,2-Dichloroethane	ND		10	5.0	ug/L			07/21/17 20:08	10
1,1-Dichloroethene	ND		10	5.0	ug/L			07/21/17 20:08	10
1,2-Dichloropropane	ND		10	5.0	ug/L			07/21/17 20:08	10
1,3-Dichloropropane	ND		10	5.0	ug/L			07/21/17 20:08	10
2,2-Dichloropropane	ND		10	5.0	ug/L			07/21/17 20:08	10
1,1-Dichloropropene	ND		10	5.0	ug/L			07/21/17 20:08	10
Ethylbenzene	**53**		10	5.0	ug/L			07/21/17 20:08	10
Ethyl methacrylate	ND		10	6.0	ug/L			07/21/17 20:08	10
Hexachlorobutadiene	ND		50	9.0	ug/L			07/21/17 20:08	10
2-Hexanone	ND		250	31	ug/L			07/21/17 20:08	10
Isopropylbenzene	**6.4**	**J**	10	5.3	ug/L			07/21/17 20:08	10
Methylene bromide	ND		50	5.9	ug/L			07/21/17 20:08	10
Methylene Chloride	ND		50	30	ug/L			07/21/17 20:08	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			07/21/17 20:08	10
Methyl tert-butyl ether	**24**		10	7.4	ug/L			07/21/17 20:08	10
m-Xylene & p-Xylene	**200**		50	16	ug/L			07/21/17 20:08	10
Naphthalene	**61**		10	10	ug/L			07/21/17 20:08	10
n-Butylbenzene	ND		10	7.6	ug/L			07/21/17 20:08	10
N-Propylbenzene	**9.1**	**J**	10	6.9	ug/L			07/21/17 20:08	10
o-Chlorotoluene	ND		10	5.7	ug/L			07/21/17 20:08	10
o-Xylene	ND		50	6.0	ug/L			07/21/17 20:08	10
p-Chlorotoluene	ND		10	5.6	ug/L			07/21/17 20:08	10
p-Isopropyltoluene	ND		10	7.1	ug/L			07/21/17 20:08	10

Client Sample ID: T12-ROX-071317
Date Collected: 07/13/17 10:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10	7.0	ug/L			07/21/17 20:08	10
Styrene	ND		10	10	ug/L			07/21/17 20:08	10
tert-Butylbenzene	ND		10	6.3	ug/L			07/21/17 20:08	10
1,1,1,2-Tetrachloroethane	ND		10	5.2	ug/L			07/21/17 20:08	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			07/21/17 20:08	10
Tetrachloroethene	ND		10	5.8	ug/L			07/21/17 20:08	10
Toluene	**80**		10	7.0	ug/L			07/21/17 20:08	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			07/21/17 20:08	10
trans-1,3-Dichloropropene	ND		50	5.0	ug/L			07/21/17 20:08	10
1,2,3-Trichlorobenzene	ND		10	7.0	ug/L			07/21/17 20:08	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			07/21/17 20:08	10
1,1,1-Trichloroethane	ND		10	5.0	ug/L			07/21/17 20:08	10
1,1,2-Trichloroethane	ND		50	5.0	ug/L			07/21/17 20:08	10
Trichloroethene	ND		10	5.0	ug/L			07/21/17 20:08	10
Trichlorofluoromethane	ND		10	5.2	ug/L			07/21/17 20:08	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			07/21/17 20:08	10
1,2,4-Trimethylbenzene	**33**		10	8.2	ug/L			07/21/17 20:08	10
1,3,5-Trimethylbenzene	ND		10	5.6	ug/L			07/21/17 20:08	10
Vinyl acetate	ND		250	20	ug/L			07/21/17 20:08	10
Vinyl chloride	ND		10	5.0	ug/L			07/21/17 20:08	10
Xylenes, Total	**210**		100	16	ug/L			07/21/17 20:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*07/21/17 20:08*	*10*
Dibromofluoromethane	*92*		*81 - 121*		*07/21/17 20:08*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/21/17 20:08*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.46**		0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
Acenaphthylene	ND		0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
Anthracene	**0.14**	J	0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
Benzo[a]anthracene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Benzo[a]pyrene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Benzo[g,h,i]perylene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Benzo[k]fluoranthene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Chrysene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Dibenz(a,h)anthracene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Fluoranthene	**0.041**	J	0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
Fluorene	**0.27**		0.19	0.020	ug/L		07/18/17 11:39	07/20/17 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.038	ug/L		07/18/17 11:39	07/20/17 15:11	1
Phenanthrene	**0.53**		0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
Pyrene	**0.072**	J	0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
1-Methylnaphthalene	**18**		0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1
2-Methylnaphthalene	**26**		0.19	0.019	ug/L		07/18/17 11:39	07/20/17 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*33 - 138*	*07/18/17 11:39*	*07/20/17 15:11*	*1*
2-Fluorobiphenyl	*69*		*15 - 122*	*07/18/17 11:39*	*07/20/17 15:11*	*1*

Client Sample ID: T12-ROX-071317

Date Collected: 07/13/17 10:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		19 - 130	07/18/17 11:39	07/20/17 15:11	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		07/18/17 11:39	07/21/17 17:20	1
Benzenethiol	ND	* UJ	9.5	1.6	ug/L		07/18/17 11:39	07/21/17 17:20	1
Benzoic acid	ND	* UJ	29	7.0	ug/L		07/18/17 11:39	07/21/17 17:20	1
Benzyl alcohol	ND		9.5	1.9	ug/L		07/18/17 11:39	07/21/17 17:20	1
Bis(2-chloroethoxy)methane	ND		9.5	0.66	ug/L		07/18/17 11:39	07/21/17 17:20	1
Bis(2-chloroethyl)ether	ND		9.5	0.71	ug/L		07/18/17 11:39	07/21/17 17:20	1
bis (2-chloroisopropyl) ether	ND		9.5	0.77	ug/L		07/18/17 11:39	07/21/17 17:20	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.2	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Bromophenyl phenyl ether	ND		9.5	0.30	ug/L		07/18/17 11:39	07/21/17 17:20	1
Butyl benzyl phthalate	ND		9.5	0.66	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Chloroaniline	ND		9.5	3.2	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Chloro-3-methylphenol	ND		9.5	3.6	ug/L		07/18/17 11:39	07/21/17 17:20	1
2-Chloronaphthalene	ND		9.5	0.50	ug/L		07/18/17 11:39	07/21/17 17:20	1
2-Chlorophenol	ND		9.5	2.1	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Chlorophenyl phenyl ether	ND		9.5	1.9	ug/L		07/18/17 11:39	07/21/17 17:20	1
Dibenz[a,h]acridine	ND		9.5	2.9	ug/L		07/18/17 11:39	07/21/17 17:20	1
Dibenzofuran	ND		9.5	0.50	ug/L		07/18/17 11:39	07/21/17 17:20	1
3,3'-Dichlorobenzidine	ND		9.5	2.5	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4-Dichlorophenol	ND	* UJ	9.5	2.9	ug/L		07/18/17 11:39	07/21/17 17:20	1
Diethyl phthalate	ND		9.5	0.67	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4-Dimethylphenol	ND		9.5	3.3	ug/L		07/18/17 11:39	07/21/17 17:20	1
Dimethyl phthalate	ND		9.5	0.57	ug/L		07/18/17 11:39	07/21/17 17:20	1
Di-n-butyl phthalate	**3.5**	**J**	9.5	2.6	ug/L		07/18/17 11:39	07/21/17 17:20	1
4,6-Dinitro-ortho-cresol	ND	*	9.5	1.9	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4-Dinitrophenol	ND	* UJ	29	3.2	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4-Dinitrotoluene	ND		9.5	1.8	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,6-Dinitrotoluene	ND		9.5	1.8	ug/L		07/18/17 11:39	07/21/17 17:20	1
Di-n-octyl phthalate	ND		9.5	0.42	ug/L		07/18/17 11:39	07/21/17 17:20	1
1,4-Dioxane	ND		9.5	0.95	ug/L		07/18/17 11:39	07/21/17 17:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	0.95	ug/L		07/18/17 11:39	07/21/17 17:20	1
Hexachlorobenzene	ND		9.5	0.24	ug/L		07/18/17 11:39	07/21/17 17:20	1
Hexachlorocyclopentadiene	ND	* UJ	19	2.5	ug/L		07/18/17 11:39	07/21/17 17:20	1
Hexachloroethane	ND		9.5	4.0	ug/L		07/18/17 11:39	07/21/17 17:20	1
Indene	**1.4**	**J**	9.5	0.95	ug/L		07/18/17 11:39	07/21/17 17:20	1
Isophorone	ND		9.5	0.54	ug/L		07/18/17 11:39	07/21/17 17:20	1
2-Methylphenol	ND		9.5	1.7	ug/L		07/18/17 11:39	07/21/17 17:20	1
3 & 4 Methylphenol	ND		19	0.99	ug/L		07/18/17 11:39	07/21/17 17:20	1
2-Nitroaniline	ND		9.5	2.1	ug/L		07/18/17 11:39	07/21/17 17:20	1
3-Nitroaniline	ND		9.5	1.7	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Nitroaniline	ND		9.5	2.4	ug/L		07/18/17 11:39	07/21/17 17:20	1
Nitrobenzene	ND		9.5	0.52	ug/L		07/18/17 11:39	07/21/17 17:20	1
2-Nitrophenol	ND		9.5	0.62	ug/L		07/18/17 11:39	07/21/17 17:20	1
4-Nitrophenol	ND	*	9.5	2.0	ug/L		07/18/17 11:39	07/21/17 17:20	1
N-Nitrosodimethylamine	ND	*	9.5	3.3	ug/L		07/18/17 11:39	07/21/17 17:20	1

Client Sample ID: T12-ROX-071317
Date Collected: 07/13/17 10:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-2
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		9.5	3.1	ug/L		07/18/17 11:39	07/21/17 17:20	1
N-Nitrosodiphenylamine	ND		9.5	0.45	ug/L		07/18/17 11:39	07/21/17 17:20	1
Pentachlorophenol	ND	* UJ	19	1.7	ug/L		07/18/17 11:39	07/21/17 17:20	1
Phenol	**28**		9.5	2.5	ug/L		07/18/17 11:39	07/21/17 17:20	1
Pyridine	ND	*	9.5	3.0	ug/L		07/18/17 11:39	07/21/17 17:20	1
Quinoline	ND		9.5	5.7	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4,5-Trichlorophenol	ND		9.5	3.5	ug/L		07/18/17 11:39	07/21/17 17:20	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		07/18/17 11:39	07/21/17 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 120*	*07/18/17 11:39*	*07/21/17 17:20*	*1*
2-Fluorophenol	*45*		*10 - 120*	*07/18/17 11:39*	*07/21/17 17:20*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*07/18/17 11:39*	*07/21/17 17:20*	*1*
Phenol-d5	*68*		*10 - 120*	*07/18/17 11:39*	*07/21/17 17:20*	*1*
Terphenyl-d14	*67*		*53 - 125*	*07/18/17 11:39*	*07/21/17 17:20*	*1*
2,4,6-Tribromophenol	*94*		*15 - 135*	*07/18/17 11:39*	*07/21/17 17:20*	*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	*	0.030	0.0055	ug/L		07/27/17 08:31	07/28/17 07:02	1
1,2-Dibromoethane	ND	*	0.020	0.0050	ug/L		07/27/17 08:31	07/28/17 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*124*		*51 - 149*	*07/27/17 08:31*	*07/28/17 07:02*	*1*

Client Sample ID: P57-ROX-071317
Date Collected: 07/13/17 11:25
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000	2000	ug/L			07/21/17 21:22	200
Acrolein	ND		4000	2000	ug/L			07/21/17 21:22	200
Acrylonitrile	ND		2000	560	ug/L			07/21/17 21:22	200
Benzene	**43000**		200	76	ug/L			07/21/17 21:22	200
Bromobenzene	ND		200	110	ug/L			07/21/17 21:22	200
Bromochloromethane	ND		200	100	ug/L			07/21/17 21:22	200
Bromodichloromethane	ND		200	100	ug/L			07/21/17 21:22	200
Bromoform	ND		1000	140	ug/L			07/21/17 21:22	200
Bromomethane	ND		200	200	ug/L			07/21/17 21:22	200
2-Butanone (MEK)	ND		5000	520	ug/L			07/21/17 21:22	200
Carbon disulfide	ND		200	100	ug/L			07/21/17 21:22	200
Carbon tetrachloride	ND		200	100	ug/L			07/21/17 21:22	200
Chlorobenzene	ND		200	100	ug/L			07/21/17 21:22	200
Dibromochloromethane	ND		200	100	ug/L			07/21/17 21:22	200
Chloroethane	ND		200	150	ug/L			07/21/17 21:22	200
2-Chloroethyl vinyl ether	ND		1000	400	ug/L			07/21/17 21:22	200
Chloroform	ND		200	120	ug/L			07/21/17 21:22	200
1-Chlorohexane	ND		200	140	ug/L			07/21/17 21:22	200
Chloromethane	ND		200	170	ug/L			07/21/17 21:22	200
cis-1,2-Dichloroethene	ND		200	100	ug/L			07/21/17 21:22	200
cis-1,3-Dichloropropene	ND		1000	100	ug/L			07/21/17 21:22	200
1,2-Dichlorobenzene	ND		200	100	ug/L			07/21/17 21:22	200
1,3-Dichlorobenzene	ND		200	110	ug/L			07/21/17 21:22	200
1,4-Dichlorobenzene	ND		200	130	ug/L			07/21/17 21:22	200
Dichlorodifluoromethane	ND		200	170	ug/L			07/21/17 21:22	200
1,1-Dichloroethane	ND		200	100	ug/L			07/21/17 21:22	200
1,2-Dichloroethane	ND		200	100	ug/L			07/21/17 21:22	200
1,1-Dichloroethene	ND		200	100	ug/L			07/21/17 21:22	200
1,2-Dichloropropane	ND		200	100	ug/L			07/21/17 21:22	200
1,3-Dichloropropane	ND		200	100	ug/L			07/21/17 21:22	200
2,2-Dichloropropane	ND		200	100	ug/L			07/21/17 21:22	200
1,1-Dichloropropene	ND		200	100	ug/L			07/21/17 21:22	200
Ethylbenzene	**180**	**J**	200	100	ug/L			07/21/17 21:22	200
Ethyl methacrylate	ND		200	120	ug/L			07/21/17 21:22	200
Hexachlorobutadiene	ND		1000	180	ug/L			07/21/17 21:22	200
2-Hexanone	ND		5000	620	ug/L			07/21/17 21:22	200
Isopropylbenzene	ND		200	110	ug/L			07/21/17 21:22	200
Methylene bromide	ND		1000	120	ug/L			07/21/17 21:22	200
Methylene Chloride	ND		1000	600	ug/L			07/21/17 21:22	200
4-Methyl-2-pentanone (MIBK)	ND		5000	360	ug/L			07/21/17 21:22	200
Methyl tert-butyl ether	ND		200	150	ug/L			07/21/17 21:22	200
m-Xylene & p-Xylene	ND		1000	320	ug/L			07/21/17 21:22	200
Naphthalene	ND		200	200	ug/L			07/21/17 21:22	200
n-Butylbenzene	ND		200	150	ug/L			07/21/17 21:22	200
N-Propylbenzene	ND		200	140	ug/L			07/21/17 21:22	200
o-Chlorotoluene	ND		200	110	ug/L			07/21/17 21:22	200
o-Xylene	ND		1000	120	ug/L			07/21/17 21:22	200
p-Chlorotoluene	ND		200	110	ug/L			07/21/17 21:22	200
p-Isopropyltoluene	ND		200	140	ug/L			07/21/17 21:22	200

Client Sample ID: P57-ROX-071317
Date Collected: 07/13/17 11:25
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		200	140	ug/L			07/21/17 21:22	200
Styrene	ND		200	200	ug/L			07/21/17 21:22	200
tert-Butylbenzene	ND		200	130	ug/L			07/21/17 21:22	200
1,1,1,2-Tetrachloroethane	ND		200	100	ug/L			07/21/17 21:22	200
1,1,2,2-Tetrachloroethane	ND		200	100	ug/L			07/21/17 21:22	200
Tetrachloroethene	ND		200	120	ug/L			07/21/17 21:22	200
Toluene	ND		200	140	ug/L			07/21/17 21:22	200
trans-1,2-Dichloroethene	ND		200	100	ug/L			07/21/17 21:22	200
trans-1,3-Dichloropropene	ND		1000	100	ug/L			07/21/17 21:22	200
1,2,3-Trichlorobenzene	ND		200	140	ug/L			07/21/17 21:22	200
1,2,4-Trichlorobenzene	ND		200	160	ug/L			07/21/17 21:22	200
1,1,1-Trichloroethane	ND		200	100	ug/L			07/21/17 21:22	200
1,1,2-Trichloroethane	ND		1000	100	ug/L			07/21/17 21:22	200
Trichloroethene	ND		200	100	ug/L			07/21/17 21:22	200
Trichlorofluoromethane	ND		200	100	ug/L			07/21/17 21:22	200
1,2,3-Trichloropropane	ND		1000	170	ug/L			07/21/17 21:22	200
1,2,4-Trimethylbenzene	ND		200	160	ug/L			07/21/17 21:22	200
1,3,5-Trimethylbenzene	ND		200	110	ug/L			07/21/17 21:22	200
Vinyl acetate	ND		5000	400	ug/L			07/21/17 21:22	200
Vinyl chloride	ND		200	100	ug/L			07/21/17 21:22	200
Xylenes, Total	ND		2000	320	ug/L			07/21/17 21:22	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*07/21/17 21:22*	*200*
Dibromofluoromethane	*92*		*81 - 121*		*07/21/17 21:22*	*200*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/17 21:22*	*200*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.56**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
Anthracene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Chrysene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Fluoranthene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
Fluorene	**0.54**		0.20	0.021	ug/L		07/18/17 11:39	07/20/17 15:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 15:34	1
Phenanthrene	**0.38**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
Pyrene	**0.066**	J	0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
1-Methylnaphthalene	**23**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1
2-Methylnaphthalene	**30**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*51*		*33 - 138*	*07/18/17 11:39*	*07/20/17 15:34*	*1*
2-Fluorobiphenyl	*54*		*15 - 122*	*07/18/17 11:39*	*07/20/17 15:34*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: P57-ROX-071317
Date Collected: 07/13/17 11:25
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	52		19 - 130	07/18/17 11:39	07/20/17 15:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	3.8	ug/L		07/18/17 11:39	07/21/17 17:51	1
Benzenethiol	ND	* UJ	9.9	1.7	ug/L		07/18/17 11:39	07/21/17 17:51	1
Benzoic acid	ND	* UJ	30	7.3	ug/L		07/18/17 11:39	07/21/17 17:51	1
Benzyl alcohol	ND		9.9	2.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
Bis(2-chloroethoxy)methane	ND		9.9	0.69	ug/L		07/18/17 11:39	07/21/17 17:51	1
Bis(2-chloroethyl)ether	ND		9.9	0.74	ug/L		07/18/17 11:39	07/21/17 17:51	1
bis (2-chloroisopropyl) ether	ND		9.9	0.81	ug/L		07/18/17 11:39	07/21/17 17:51	1
Bis(2-ethylhexyl) phthalate	~~4.1~~	J B U	9.9	2.2	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Bromophenyl phenyl ether	ND		9.9	0.32	ug/L		07/18/17 11:39	07/21/17 17:51	1
Butyl benzyl phthalate	ND		9.9	0.69	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Chloroaniline	ND		9.9	3.4	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Chloro-3-methylphenol	ND		9.9	3.8	ug/L		07/18/17 11:39	07/21/17 17:51	1
2-Chloronaphthalene	ND		9.9	0.52	ug/L		07/18/17 11:39	07/21/17 17:51	1
2-Chlorophenol	ND		9.9	2.2	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Chlorophenyl phenyl ether	ND		9.9	2.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
Dibenz[a,h]acridine	ND		9.9	3.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
Dibenzofuran	ND		9.9	0.52	ug/L		07/18/17 11:39	07/21/17 17:51	1
3,3'-Dichlorobenzidine	ND		9.9	2.6	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4-Dichlorophenol	ND	* UJ	9.9	3.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
Diethyl phthalate	ND		9.9	0.70	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4-Dimethylphenol	25		9.9	3.5	ug/L		07/18/17 11:39	07/21/17 17:51	1
Dimethyl phthalate	ND		9.9	0.60	ug/L		07/18/17 11:39	07/21/17 17:51	1
Di-n-butyl phthalate	ND		9.9	2.7	ug/L		07/18/17 11:39	07/21/17 17:51	1
4,6-Dinitro-ortho-cresol	ND	*	9.9	2.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4-Dinitrophenol	ND	* UJ	30	3.4	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4-Dinitrotoluene	ND		9.9	1.9	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,6-Dinitrotoluene	ND		9.9	1.9	ug/L		07/18/17 11:39	07/21/17 17:51	1
Di-n-octyl phthalate	ND		9.9	0.44	ug/L		07/18/17 11:39	07/21/17 17:51	1
1,4-Dioxane	ND		9.9	0.99	ug/L		07/18/17 11:39	07/21/17 17:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	0.99	ug/L		07/18/17 11:39	07/21/17 17:51	1
Hexachlorobenzene	ND		9.9	0.25	ug/L		07/18/17 11:39	07/21/17 17:51	1
Hexachlorocyclopentadiene	ND	* UJ	20	2.6	ug/L		07/18/17 11:39	07/21/17 17:51	1
Hexachloroethane	ND		9.9	4.2	ug/L		07/18/17 11:39	07/21/17 17:51	1
Indene	ND		9.9	0.99	ug/L		07/18/17 11:39	07/21/17 17:51	1
Isophorone	ND		9.9	0.57	ug/L		07/18/17 11:39	07/21/17 17:51	1
2-Methylphenol	ND		9.9	1.8	ug/L		07/18/17 11:39	07/21/17 17:51	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
2-Nitroaniline	ND		9.9	2.2	ug/L		07/18/17 11:39	07/21/17 17:51	1
3-Nitroaniline	ND		9.9	1.8	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Nitroaniline	ND		9.9	2.5	ug/L		07/18/17 11:39	07/21/17 17:51	1
Nitrobenzene	ND		9.9	0.55	ug/L		07/18/17 11:39	07/21/17 17:51	1
2-Nitrophenol	ND		9.9	0.65	ug/L		07/18/17 11:39	07/21/17 17:51	1
4-Nitrophenol	ND	*	9.9	2.1	ug/L		07/18/17 11:39	07/21/17 17:51	1
N-Nitrosodimethylamine	ND	*	9.9	3.5	ug/L		07/18/17 11:39	07/21/17 17:51	1

Client Sample ID: P57-ROX-071317
Date Collected: 07/13/17 11:25
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-3
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		9.9	3.3	ug/L		07/18/17 11:39	07/21/17 17:51	1
N-Nitrosodiphenylamine	ND		9.9	0.47	ug/L		07/18/17 11:39	07/21/17 17:51	1
Pentachlorophenol	ND	* UJ	20	1.8	ug/L		07/18/17 11:39	07/21/17 17:51	1
Pyridine	ND	*	9.9	3.2	ug/L		07/18/17 11:39	07/21/17 17:51	1
Quinoline	ND		9.9	6.0	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4,5-Trichlorophenol	ND		9.9	3.7	ug/L		07/18/17 11:39	07/21/17 17:51	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		07/18/17 11:39	07/21/17 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 120*	*07/18/17 11:39*	*07/21/17 17:51*	*1*
2-Fluorophenol	*40*		*10 - 120*	*07/18/17 11:39*	*07/21/17 17:51*	*1*
Nitrobenzene-d5	*62*		*27 - 120*	*07/18/17 11:39*	*07/21/17 17:51*	*1*
Phenol-d5	*45*		*10 - 120*	*07/18/17 11:39*	*07/21/17 17:51*	*1*
Terphenyl-d14	*48*	*X*	*53 - 125*	*07/18/17 11:39*	*07/21/17 17:51*	*1*
2,4,6-Tribromophenol	*76*		*15 - 135*	*07/18/17 11:39*	*07/21/17 17:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	630		99	26	ug/L		07/18/17 11:39	07/24/17 20:59	10

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		07/27/17 08:31	07/28/17 07:21	1
1,2-Dibromoethane	ND	*	0.020	0.0051	ug/L		07/27/17 08:31	07/28/17 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*51 - 149*	*07/27/17 08:31*	*07/28/17 07:21*	*1*

Client Sample ID: P93A-ROX-071317

Date Collected: 07/13/17 11:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-4

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			07/21/17 17:15	1
Acrolein	ND		20	10	ug/L			07/21/17 17:15	1
Acrylonitrile	ND		10	2.8	ug/L			07/21/17 17:15	1
Benzene	**83**		1.0	0.38	ug/L			07/21/17 17:15	1
Bromobenzene	ND		1.0	0.54	ug/L			07/21/17 17:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/21/17 17:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Bromoform	ND		5.0	0.71	ug/L			07/21/17 17:15	1
Bromomethane	ND		1.0	0.98	ug/L			07/21/17 17:15	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/21/17 17:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Chloroethane	ND		1.0	0.76	ug/L			07/21/17 17:15	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/21/17 17:15	1
Chloroform	ND		1.0	0.60	ug/L			07/21/17 17:15	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/21/17 17:15	1
Chloromethane	ND		1.0	0.83	ug/L			07/21/17 17:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 17:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/21/17 17:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/21/17 17:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/21/17 17:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/21/17 17:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/21/17 17:15	1
2-Hexanone	ND		25	3.1	ug/L			07/21/17 17:15	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/21/17 17:15	1
Methylene bromide	ND		5.0	0.59	ug/L			07/21/17 17:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/21/17 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/21/17 17:15	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/21/17 17:15	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/21/17 17:15	1
Naphthalene	ND		1.0	1.0	ug/L			07/21/17 17:15	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/21/17 17:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/21/17 17:15	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/21/17 17:15	1
o-Xylene	ND		5.0	0.60	ug/L			07/21/17 17:15	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/21/17 17:15	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/21/17 17:15	1

Client Sample ID: P93A-ROX-071317
Date Collected: 07/13/17 11:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-4
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			07/21/17 17:15	1
Styrene	ND		1.0	1.0	ug/L			07/21/17 17:15	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/21/17 17:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/21/17 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/21/17 17:15	1
Toluene	ND		1.0	0.70	ug/L			07/21/17 17:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 17:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/21/17 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/21/17 17:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/21/17 17:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/21/17 17:15	1
Trichloroethene	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/21/17 17:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/21/17 17:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/21/17 17:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/21/17 17:15	1
Vinyl acetate	ND		25	2.0	ug/L			07/21/17 17:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/21/17 17:15	1
Xylenes, Total	ND		10	1.6	ug/L			07/21/17 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*07/21/17 17:15*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*07/21/17 17:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/17 17:15*	*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		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
Acenaphthylene	ND		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
Anthracene	ND		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
Benzo[a]anthracene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Benzo[a]pyrene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Benzo[b]fluoranthene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Benzo[g,h,i]perylene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Benzo[k]fluoranthene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Chrysene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Dibenz(a,h)anthracene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Fluoranthene	ND		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
Fluorene	ND		0.37	0.039	ug/L		07/18/17 11:39	07/20/17 15:58	1
Indeno[1,2,3-cd]pyrene	ND		0.37	0.074	ug/L		07/18/17 11:39	07/20/17 15:58	1
Phenanthrene	ND		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
Pyrene	ND		0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
1-Methylnaphthalene	**0.16**	**J**	0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1
2-Methylnaphthalene	**0.18**	**J**	0.37	0.037	ug/L		07/18/17 11:39	07/20/17 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*128*		*33 - 138*	*07/18/17 11:39*	*07/21/17 15:28*	*2*
2-Fluorobiphenyl	*108*		*15 - 122*	*07/18/17 11:39*	*07/20/17 15:58*	*1*

Client Sample ID: P93A-ROX-071317
Date Collected: 07/13/17 11:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-4
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		19 - 130	07/18/17 11:39	07/20/17 15:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		19	7.0	ug/L		07/18/17 11:39	07/21/17 18:21	1
Benzenethiol	ND	* UJ	19	3.2	ug/L		07/18/17 11:39	07/21/17 18:21	1
Benzoic acid	ND	* UJ	56	14	ug/L		07/18/17 11:39	07/21/17 18:21	1
Benzyl alcohol	ND		19	3.7	ug/L		07/18/17 11:39	07/21/17 18:21	1
Bis(2-chloroethoxy)methane	ND		19	1.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
Bis(2-chloroethyl)ether	ND		19	1.4	ug/L		07/18/17 11:39	07/21/17 18:21	1
bis (2-chloroisopropyl) ether	ND		19	1.5	ug/L		07/18/17 11:39	07/21/17 18:21	1
Bis(2-ethylhexyl) phthalate	~~9.4~~	J B U	19	4.2	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Bromophenyl phenyl ether	ND		19	0.59	ug/L		07/18/17 11:39	07/21/17 18:21	1
Butyl benzyl phthalate	ND		19	1.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Chloroaniline	ND		19	6.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Chloro-3-methylphenol	ND		19	7.0	ug/L		07/18/17 11:39	07/21/17 18:21	1
2-Chloronaphthalene	ND		19	0.96	ug/L		07/18/17 11:39	07/21/17 18:21	1
2-Chlorophenol	ND		19	4.1	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Chlorophenyl phenyl ether	ND		19	3.7	ug/L		07/18/17 11:39	07/21/17 18:21	1
Dibenz[a,h]acridine	ND		19	5.6	ug/L		07/18/17 11:39	07/21/17 18:21	1
Dibenzofuran	ND		19	0.96	ug/L		07/18/17 11:39	07/21/17 18:21	1
3,3'-Dichlorobenzidine	ND		19	4.8	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4-Dichlorophenol	ND	* UJ	19	5.6	ug/L		07/18/17 11:39	07/21/17 18:21	1
Diethyl phthalate	ND		19	1.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4-Dimethylphenol	ND		19	6.5	ug/L		07/18/17 11:39	07/21/17 18:21	1
Dimethyl phthalate	ND		19	1.1	ug/L		07/18/17 11:39	07/21/17 18:21	1
Di-n-butyl phthalate	ND		19	5.0	ug/L		07/18/17 11:39	07/21/17 18:21	1
4,6-Dinitro-ortho-cresol	ND	*	19	3.7	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4-Dinitrophenol	ND	* UJ	56	6.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4-Dinitrotoluene	ND		19	3.5	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,6-Dinitrotoluene	ND		19	3.5	ug/L		07/18/17 11:39	07/21/17 18:21	1
Di-n-octyl phthalate	ND		19	0.82	ug/L		07/18/17 11:39	07/21/17 18:21	1
1,4-Dioxane	ND		19	1.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		19	1.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
Hexachlorobenzene	ND		19	0.46	ug/L		07/18/17 11:39	07/21/17 18:21	1
Hexachlorocyclopentadiene	ND	* UJ	37	4.8	ug/L		07/18/17 11:39	07/21/17 18:21	1
Hexachloroethane	ND		19	7.8	ug/L		07/18/17 11:39	07/21/17 18:21	1
Indene	ND		19	1.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
Isophorone	ND		19	1.1	ug/L		07/18/17 11:39	07/21/17 18:21	1
2-Methylphenol	ND		19	3.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
3 & 4 Methylphenol	ND		37	1.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
2-Nitroaniline	ND		19	4.1	ug/L		07/18/17 11:39	07/21/17 18:21	1
3-Nitroaniline	ND		19	3.3	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Nitroaniline	ND		19	4.6	ug/L		07/18/17 11:39	07/21/17 18:21	1
Nitrobenzene	ND		19	1.0	ug/L		07/18/17 11:39	07/21/17 18:21	1
2-Nitrophenol	ND		19	1.2	ug/L		07/18/17 11:39	07/21/17 18:21	1
4-Nitrophenol	ND	*	19	3.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
N-Nitrosodimethylamine	ND	*	19	6.5	ug/L		07/18/17 11:39	07/21/17 18:21	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: P93A-ROX-071317
Date Collected: 07/13/17 11:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-4
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		19	6.1	ug/L		07/18/17 11:39	07/21/17 18:21	1
N-Nitrosodiphenylamine	ND		19	0.87	ug/L		07/18/17 11:39	07/21/17 18:21	1
Pentachlorophenol	ND	* UJ	37	3.4	ug/L		07/18/17 11:39	07/21/17 18:21	1
Phenol	ND		19	4.8	ug/L		07/18/17 11:39	07/21/17 18:21	1
Pyridine	ND	*	19	5.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
Quinoline	ND		19	11	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4,5-Trichlorophenol	ND		19	6.9	ug/L		07/18/17 11:39	07/21/17 18:21	1
2,4,6-Trichlorophenol	ND		19	6.5	ug/L		07/18/17 11:39	07/21/17 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*07/18/17 11:39*	*07/21/17 18:21*	*1*
2-Fluorophenol	*72*		*10 - 120*	*07/18/17 11:39*	*07/21/17 18:21*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*07/18/17 11:39*	*07/21/17 18:21*	*1*
Phenol-d5	*74*		*10 - 120*	*07/18/17 11:39*	*07/21/17 18:21*	*1*
Terphenyl-d14	*86*		*53 - 125*	*07/18/17 11:39*	*07/21/17 18:21*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*07/18/17 11:39*	*07/21/17 18:21*	*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	*	0.030	0.0055	ug/L		07/27/17 08:31	07/28/17 07:39	1
1,2-Dibromoethane	ND	*	0.020	0.0050	ug/L		07/27/17 08:31	07/28/17 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*123*		*51 - 149*	*07/27/17 08:31*	*07/28/17 07:39*	*1*

Client Sample ID: P58-ROX-071317
Date Collected: 07/13/17 12:15
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			07/21/17 21:46	1000
Acrolein	ND		20000	10000	ug/L			07/21/17 21:46	1000
Acrylonitrile	ND		10000	2800	ug/L			07/21/17 21:46	1000
Benzene	**130000**		1000	380	ug/L			07/21/17 21:46	1000
Bromobenzene	ND		1000	540	ug/L			07/21/17 21:46	1000
Bromochloromethane	ND		1000	520	ug/L			07/21/17 21:46	1000
Bromodichloromethane	ND		1000	500	ug/L			07/21/17 21:46	1000
Bromoform	ND		5000	710	ug/L			07/21/17 21:46	1000
Bromomethane	ND		1000	980	ug/L			07/21/17 21:46	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			07/21/17 21:46	1000
Carbon disulfide	ND		1000	500	ug/L			07/21/17 21:46	1000
Carbon tetrachloride	ND		1000	500	ug/L			07/21/17 21:46	1000
Chlorobenzene	ND		1000	500	ug/L			07/21/17 21:46	1000
Dibromochloromethane	ND		1000	500	ug/L			07/21/17 21:46	1000
Chloroethane	ND		1000	760	ug/L			07/21/17 21:46	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			07/21/17 21:46	1000
Chloroform	ND		1000	600	ug/L			07/21/17 21:46	1000
1-Chlorohexane	ND		1000	700	ug/L			07/21/17 21:46	1000
Chloromethane	ND		1000	830	ug/L			07/21/17 21:46	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			07/21/17 21:46	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			07/21/17 21:46	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			07/21/17 21:46	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			07/21/17 21:46	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			07/21/17 21:46	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			07/21/17 21:46	1000
1,1-Dichloroethane	ND		1000	500	ug/L			07/21/17 21:46	1000
1,2-Dichloroethane	ND		1000	500	ug/L			07/21/17 21:46	1000
1,1-Dichloroethene	ND		1000	500	ug/L			07/21/17 21:46	1000
1,2-Dichloropropane	ND		1000	500	ug/L			07/21/17 21:46	1000
1,3-Dichloropropane	ND		1000	500	ug/L			07/21/17 21:46	1000
2,2-Dichloropropane	ND		1000	500	ug/L			07/21/17 21:46	1000
1,1-Dichloropropene	ND		1000	500	ug/L			07/21/17 21:46	1000
Ethylbenzene	ND		1000	500	ug/L			07/21/17 21:46	1000
Ethyl methacrylate	ND		1000	600	ug/L			07/21/17 21:46	1000
Hexachlorobutadiene	ND		5000	900	ug/L			07/21/17 21:46	1000
2-Hexanone	ND		25000	3100	ug/L			07/21/17 21:46	1000
Isopropylbenzene	ND		1000	530	ug/L			07/21/17 21:46	1000
Methylene bromide	ND		5000	590	ug/L			07/21/17 21:46	1000
Methylene Chloride	ND		5000	3000	ug/L			07/21/17 21:46	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			07/21/17 21:46	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			07/21/17 21:46	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			07/21/17 21:46	1000
Naphthalene	ND		1000	1000	ug/L			07/21/17 21:46	1000
n-Butylbenzene	ND		1000	760	ug/L			07/21/17 21:46	1000
N-Propylbenzene	ND		1000	690	ug/L			07/21/17 21:46	1000
o-Chlorotoluene	ND		1000	570	ug/L			07/21/17 21:46	1000
o-Xylene	ND		5000	600	ug/L			07/21/17 21:46	1000
p-Chlorotoluene	ND		1000	560	ug/L			07/21/17 21:46	1000
p-Isopropyltoluene	ND		1000	710	ug/L			07/21/17 21:46	1000

Client Sample ID: P58-ROX-071317

Date Collected: 07/13/17 12:15
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			07/21/17 21:46	1000
Styrene	ND		1000	1000	ug/L			07/21/17 21:46	1000
tert-Butylbenzene	ND		1000	630	ug/L			07/21/17 21:46	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			07/21/17 21:46	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			07/21/17 21:46	1000
Tetrachloroethene	ND		1000	580	ug/L			07/21/17 21:46	1000
Toluene	ND		1000	700	ug/L			07/21/17 21:46	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			07/21/17 21:46	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			07/21/17 21:46	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			07/21/17 21:46	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			07/21/17 21:46	1000
1,1,1-Trichloroethane	ND		1000	500	ug/L			07/21/17 21:46	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			07/21/17 21:46	1000
Trichloroethene	ND		1000	500	ug/L			07/21/17 21:46	1000
Trichlorofluoromethane	ND		1000	520	ug/L			07/21/17 21:46	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			07/21/17 21:46	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			07/21/17 21:46	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			07/21/17 21:46	1000
Vinyl acetate	ND		25000	2000	ug/L			07/21/17 21:46	1000
Vinyl chloride	ND		1000	500	ug/L			07/21/17 21:46	1000
Xylenes, Total	ND		10000	1600	ug/L			07/21/17 21:46	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/21/17 21:46*	*1000*
Dibromofluoromethane	*93*		*81 - 121*		*07/21/17 21:46*	*1000*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/17 21:46*	*1000*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.69**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
Acenaphthene	**0.58**	H J	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
Acenaphthylene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
Acenaphthylene	ND	H UJ	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
Anthracene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
Anthracene	ND	H UJ	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Benzo[a]anthracene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Benzo[a]pyrene	**0.13**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Benzo[a]pyrene	**0.083**	J H J	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Benzo[b]fluoranthene	**0.12**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Benzo[b]fluoranthene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Benzo[g,h,i]perylene	**0.097**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Benzo[g,h,i]perylene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Benzo[k]fluoranthene	**0.078**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Benzo[k]fluoranthene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Chrysene	**0.21**		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Chrysene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Dibenz(a,h)anthracene	**0.15**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Dibenz(a,h)anthracene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Fluoranthene	**0.43**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1

Client Sample ID: P58-ROX-071317

Date Collected: 07/13/17 12:15
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	H UJ	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
Fluorene	**0.86**		0.20	0.021	ug/L		07/18/17 11:39	07/20/17 16:21	1
Fluorene	**0.88**	H J	0.39	0.041	ug/L		07/21/17 14:21	07/24/17 20:26	2
Indeno[1,2,3-cd]pyrene	**0.11**	J	0.20	0.040	ug/L		07/18/17 11:39	07/20/17 16:21	1
Indeno[1,2,3-cd]pyrene	ND	H UJ	0.39	0.078	ug/L		07/21/17 14:21	07/24/17 20:26	2
Phenanthrene	**0.83**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
Phenanthrene	**0.97**	H J	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
Pyrene	**0.88**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
Pyrene	**0.64**	H J	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
1-Methylnaphthalene	**36**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
1-Methylnaphthalene	**37**	H J	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2
2-Methylnaphthalene	**38**		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 16:21	1
2-Methylnaphthalene	**38**	H J	0.39	0.039	ug/L		07/21/17 14:21	07/24/17 20:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*0.09*	*X*	*33 - 138*	*07/18/17 11:39*	*07/20/17 16:21*	*1*
Terphenyl-d14	*75*		*33 - 138*	*07/21/17 14:21*	*07/24/17 20:26*	*2*
2-Fluorobiphenyl	*0.02*	*X*	*15 - 122*	*07/18/17 11:39*	*07/20/17 16:21*	*1*
2-Fluorobiphenyl	*80*		*15 - 122*	*07/21/17 14:21*	*07/24/17 20:26*	*2*
Nitrobenzene-d5	*2*	*X*	*19 - 130*	*07/18/17 11:39*	*07/20/17 16:21*	*1*
Nitrobenzene-d5	*65*		*19 - 130*	*07/21/17 14:21*	*07/24/17 20:26*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	3.8	ug/L		07/18/17 11:39	07/21/17 18:52	1
Benzenethiol	ND	*	10	1.7	ug/L		07/18/17 11:39	07/21/17 18:52	1
Benzoic acid	ND	*	30	7.3	ug/L		07/18/17 11:39	07/21/17 18:52	1
Benzyl alcohol	ND		10	2.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/18/17 11:39	07/21/17 18:52	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/18/17 11:39	07/21/17 18:52	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/18/17 11:39	07/21/17 18:52	1
Bis(2-ethylhexyl) phthalate	~~10~~	B UJ	10	2.3	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Bromophenyl phenyl ether	ND	UJ	10	0.32	ug/L		07/18/17 11:39	07/21/17 18:52	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Chloroaniline	ND		10	3.4	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/18/17 11:39	07/21/17 18:52	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/18/17 11:39	07/21/17 18:52	1
2-Chlorophenol	ND		10	2.2	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Dibenzofuran	ND		10	0.52	ug/L		07/18/17 11:39	07/21/17 18:52	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4-Dichlorophenol	ND	*	10	3.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Diethyl phthalate	ND		10	0.70	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/18/17 11:39	07/21/17 18:52	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/18/17 11:39	07/21/17 18:52	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/18/17 11:39	07/21/17 18:52	1
4,6-Dinitro-ortho-cresol	ND	*	10	2.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4-Dinitrophenol	ND	*	30	3.4	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/21/17 18:52	1

Client Sample ID: P58-ROX-071317
Date Collected: 07/13/17 12:15
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/21/17 18:52	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/18/17 11:39	07/21/17 18:52	1
1,4-Dioxane	ND		10	1.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/18/17 11:39	07/21/17 18:52	1
Hexachlorocyclopentadiene	ND	*	20	2.6	ug/L		07/18/17 11:39	07/21/17 18:52	1
Hexachloroethane	ND		10	4.2	ug/L		07/18/17 11:39	07/21/17 18:52	1
Indene	ND		10	1.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
Isophorone	ND		10	0.57	ug/L		07/18/17 11:39	07/21/17 18:52	1
2-Methylphenol	ND		10	1.8	ug/L		07/18/17 11:39	07/21/17 18:52	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
2-Nitroaniline	ND		10	2.2	ug/L		07/18/17 11:39	07/21/17 18:52	1
3-Nitroaniline	ND		10	1.8	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Nitroaniline	ND		10	2.5	ug/L		07/18/17 11:39	07/21/17 18:52	1
Nitrobenzene	ND		10	0.55	ug/L		07/18/17 11:39	07/21/17 18:52	1
2-Nitrophenol	ND		10	0.65	ug/L		07/18/17 11:39	07/21/17 18:52	1
4-Nitrophenol	ND	*	10	2.1	ug/L		07/18/17 11:39	07/21/17 18:52	1
N-Nitrosodimethylamine	ND	*	10	3.5	ug/L		07/18/17 11:39	07/21/17 18:52	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/18/17 11:39	07/21/17 18:52	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/18/17 11:39	07/21/17 18:52	1
Pentachlorophenol	ND	*	20	1.8	ug/L		07/18/17 11:39	07/21/17 18:52	1
Pyridine	ND	*	10	3.2	ug/L		07/18/17 11:39	07/21/17 18:52	1
Quinoline	ND		10	6.0	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/18/17 11:39	07/21/17 18:52	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/18/17 11:39	07/21/17 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*34 - 120*	*07/18/17 11:39*	*07/21/17 18:52*	*1*
2-Fluorophenol	*0*	*X*	*10 - 120*	*07/18/17 11:39*	*07/21/17 18:52*	*1*
Nitrobenzene-d5	*0.2*	*X*	*27 - 120*	*07/18/17 11:39*	*07/21/17 18:52*	*1*
Phenol-d5	*0.4*	*X*	*10 - 120*	*07/18/17 11:39*	*07/21/17 18:52*	*1*
Terphenyl-d14	*0*	*X*	*53 - 125*	*07/18/17 11:39*	*07/21/17 18:52*	*1*
2,4,6-Tribromophenol	*0*	*X*	*15 - 135*	*07/18/17 11:39*	*07/21/17 18:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	460		50	13	ug/L		07/18/17 11:39	07/24/17 21:29	5

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		07/27/17 08:31	07/28/17 07:57	1
1,2-Dibromoethane	ND	*	0.020	0.0050	ug/L		07/27/17 08:31	07/28/17 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*51 - 149*	*07/27/17 08:31*	*07/28/17 07:57*	*1*

Client Sample ID: TB-ROX-071317-8026-A
Date Collected: 07/13/17 00:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-6
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			07/21/17 13:09	1
Acrolein	ND		20	10	ug/L			07/21/17 13:09	1
Acrylonitrile	ND		10	2.8	ug/L			07/21/17 13:09	1
Benzene	ND		1.0	0.38	ug/L			07/21/17 13:09	1
Bromobenzene	ND		1.0	0.54	ug/L			07/21/17 13:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/21/17 13:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Bromoform	ND		5.0	0.71	ug/L			07/21/17 13:09	1
Bromomethane	ND		1.0	0.98	ug/L			07/21/17 13:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/21/17 13:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Chloroethane	ND		1.0	0.76	ug/L			07/21/17 13:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/21/17 13:09	1
Chloroform	ND		1.0	0.60	ug/L			07/21/17 13:09	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/21/17 13:09	1
Chloromethane	ND		1.0	0.83	ug/L			07/21/17 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/21/17 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/21/17 13:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/21/17 13:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/21/17 13:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/21/17 13:09	1
2-Hexanone	ND		25	3.1	ug/L			07/21/17 13:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/21/17 13:09	1
Methylene bromide	ND		5.0	0.59	ug/L			07/21/17 13:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/21/17 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/21/17 13:09	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/21/17 13:09	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/21/17 13:09	1
Naphthalene	ND		1.0	1.0	ug/L			07/21/17 13:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/21/17 13:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/21/17 13:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/21/17 13:09	1
o-Xylene	ND		5.0	0.60	ug/L			07/21/17 13:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/21/17 13:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			07/21/17 13:09	1

Client Sample ID: TB-ROX-071317-8026-A
Date Collected: 07/13/17 00:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-6
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			07/21/17 13:09	1
Styrene	ND		1.0	1.0	ug/L			07/21/17 13:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/21/17 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/21/17 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/21/17 13:09	1
Toluene	ND		1.0	0.70	ug/L			07/21/17 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 13:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/21/17 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/21/17 13:09	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/21/17 13:09	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/21/17 13:09	1
Trichloroethene	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/21/17 13:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/21/17 13:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/21/17 13:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/21/17 13:09	1
Vinyl acetate	ND		25	2.0	ug/L			07/21/17 13:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/21/17 13:09	1
Xylenes, Total	ND		10	1.6	ug/L			07/21/17 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*07/21/17 13:09*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*07/21/17 13:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/21/17 13:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Client Sample ID: TB-ROX-071317-8011-A
Date Collected: 07/13/17 00:00
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140621-7
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	*	0.032	0.0058	ug/L		07/27/17 08:31	07/28/17 08:16	1
1,2-Dibromoethane	ND	*	0.021	0.0053	ug/L		07/27/17 08:31	07/28/17 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*07/27/17 08:31*	*07/28/17 08:16*	*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
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control 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
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
*	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 400-140621-1

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)
400-140621-1	P59-ROX-071317	92	95	97
400-140621-2	T12-ROX-071317	95	92	97
400-140621-3	P57-ROX-071317	93	92	98
400-140621-4	P93A-ROX-071317	93	94	98
400-140621-5	P58-ROX-071317	94	93	98
400-140621-6	TB-ROX-071317-8026-A	93	94	98
400-140626-A-19 MS	Matrix Spike	90	98	95
400-140626-A-19 MSD	Matrix Spike Duplicate	87	99	98
LCS 400-361302/1002	Lab Control Sample	90	100	97
MB 400-361302/4	Method Blank	94	95	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)
400-140621-1	P59-ROX-071317	70	7 X	63	46	66	101
400-140621-2	T12-ROX-071317	75	45	72	68	67	94
400-140621-3	P57-ROX-071317	63	40	62	45	48 X	76
400-140621-4	P93A-ROX-071317	82	72	78	74	86	91
400-140621-5	P58-ROX-071317	0 X	0 X	0.2 X	0.4 X	0 X	0 X
LCS 400-360871/11-A	Lab Control Sample	70	60	67	67	65	57
LCS 400-360871/2-A	Lab Control Sample	71	39	62	53	69	68
LCSD 400-360871/12-A	Lab Control Sample Dup	58	49	58	56	53	56
LCSD 400-360871/3-A	Lab Control Sample Dup	75	44	72	58	86	54
MB 400-360871/1-A	Method Blank	80	48	79	66	100	91

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)
400-140621-1	P59-ROX-071317	65	45	50
400-140621-2	T12-ROX-071317	79	69	63
400-140621-3	P57-ROX-071317	51	54	52

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

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)
400-140621-4	P93A-ROX-071317		108	90
400-140621-4	P93A-ROX-071317	128		
400-140621-5	P58-ROX-071317	0.09 X	0.02 X	2 X
400-140621-5	P58-ROX-071317	75	80	65
400-140722-G-6-A MS	Matrix Spike	78	91	83
400-140722-H-6-A MSD	Matrix Spike Duplicate	93	91	91
LCS 400-360871/2-A	Lab Control Sample	75	80	45
LCS 400-361346/2-A	Lab Control Sample	76	97	68
LCSD 400-360871/3-A	Lab Control Sample Dup	74	79	45
MB 400-360871/1-A	Method Blank	123	81	64
MB 400-361346/1-A	Method Blank	32 X		
MB 400-361346/1-A	Method Blank			91

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)
400-140621-1	P59-ROX-071317	99
400-140621-2	T12-ROX-071317	124
400-140621-3	P57-ROX-071317	98
400-140621-4	P93A-ROX-071317	123
400-140621-5	P58-ROX-071317	87
400-140621-7	TB-ROX-071317-8011-A	111
LCS 400-361896/2-A	Lab Control Sample	117
LCSD 400-361896/3-A	Lab Control Sample Dup	121
MB 400-361896/1-A	Method Blank	121

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

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: P59-ROX-071317

Lab Sample ID: 400-140621-1

Date Collected: 07/13/17 10:00
Matrix: Water
Date Received: 07/15/17 08:49

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	361302	07/21/17 20:57	RS	TAL PEN
Total/NA	Prep	3520C			1001.8 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 20:38	S1B	TAL PEN
Total/NA	Prep	3520C			1001.8 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 14:48	PP1	TAL PEN
Total/NA	Prep	8011			33.1 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 06:44	DS	TAL PEN

Client Sample ID: T12-ROX-071317

Lab Sample ID: 400-140621-2

Date Collected: 07/13/17 10:45
Matrix: Water
Date Received: 07/15/17 08:49

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	361302	07/21/17 20:08	RS	TAL PEN
Total/NA	Prep	3520C			1049.4 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 17:20	S1B	TAL PEN
Total/NA	Prep	3520C			1049.4 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 15:11	PP1	TAL PEN
Total/NA	Prep	8011			35.2 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 07:02	DS	TAL PEN

Client Sample ID: P57-ROX-071317

Lab Sample ID: 400-140621-3

Date Collected: 07/13/17 11:25
Matrix: Water
Date Received: 07/15/17 08:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	5 mL	5 mL	361302	07/21/17 21:22	RS	TAL PEN
Total/NA	Prep	3520C			1005.4 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 17:51	S1B	TAL PEN
Total/NA	Prep	3520C	DL		1005.4 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	10			361497	07/24/17 20:59	S1B	TAL PEN
Total/NA	Prep	3520C			1005.4 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 15:34	PP1	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 07:21	DS	TAL PEN

Client Sample ID: P93A-ROX-071317

Lab Sample ID: 400-140621-4

Date Collected: 07/13/17 11:45
Matrix: Water
Date Received: 07/15/17 08:49

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	361302	07/21/17 17:15	RS	TAL PEN

Client Sample ID: P93A-ROX-071317

Lab Sample ID: 400-140621-4

Date Collected: 07/13/17 11:45
Matrix: Water
Date Received: 07/15/17 08:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			539.6 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 18:21	S1B	TAL PEN
Total/NA	Prep	3520C			539.6 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 15:58	PP1	TAL PEN
Total/NA	Prep	3520C			539.6 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			361353	07/21/17 15:28	PP1	TAL PEN
Total/NA	Prep	8011			34.8 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 07:39	DS	TAL PEN

Client Sample ID: P58-ROX-071317

Lab Sample ID: 400-140621-5

Date Collected: 07/13/17 12:15
Matrix: Water
Date Received: 07/15/17 08:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	361302	07/21/17 21:46	RS	TAL PEN
Total/NA	Prep	3520C			1002.8 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 18:52	S1B	TAL PEN
Total/NA	Prep	3520C	DL		1002.8 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D	DL	5			361497	07/24/17 21:29	S1B	TAL PEN
Total/NA	Prep	3520C			1002.8 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 16:21	PP1	TAL PEN
Total/NA	Prep	3520C			1027 mL	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		2			361519	07/24/17 20:26	PP1	TAL PEN
Total/NA	Prep	8011			35 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 07:57	DS	TAL PEN

Client Sample ID: TB-ROX-071317-8026-A

Lab Sample ID: 400-140621-6

Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/15/17 08:49

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	361302	07/21/17 13:09	RS	TAL PEN

Client Sample ID: TB-ROX-071317-8011-A

Lab Sample ID: 400-140621-7

Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/15/17 08:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.1 mL	35 mL	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 08:16	DS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-360871/1-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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361125	07/20/17 18:07	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361194	07/20/17 13:39	PP1	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-361302/4

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	361302	07/21/17 12:44	RS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-361346/1-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	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361618	07/25/17 14:11	MAM	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		1			361618	07/25/17 16:07	MAM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-361896/1-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	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 05:49	DS	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-360871/11-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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 20:23	S1B	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-360871/2-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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 19:22	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			361194	07/20/17 14:02	PP1	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-361302/1002
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	361302	07/21/17 11:40	RS	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-361346/2-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	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			361519	07/24/17 18:54	PP1	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-361896/2-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	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 06:07	DS	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-360871/12-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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 20:54	S1B	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-360871/3-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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1			361330	07/21/17 19:53	S1B	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

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	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	361497	07/24/17 18:28	S1B	TAL PEN
Total/NA	Prep	3520C			1000 mL	1.0 mL	360871	07/18/17 11:39	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			361194	07/20/17 14:25	PP1	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-361896/3-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	361896	07/27/17 08:31	DS	TAL PEN
Total/NA	Analysis	8011		1			362028	07/28/17 06:26	DS	TAL PEN

Client Sample ID: Matrix Spike
Date Collected: 07/13/17 14:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140626-A-19 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	361302	07/21/17 14:23	RS	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 07/13/17 14:45
Date Received: 07/15/17 08:49

Lab Sample ID: 400-140626-A-19 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	361302	07/21/17 14:47	RS	TAL PEN

Client Sample ID: Matrix Spike
Date Collected: 07/18/17 12:00
Date Received: 07/19/17 12:05

Lab Sample ID: 400-140722-G-6-A 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	3520C			1009.8 mL	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5			362014	07/27/17 22:54	S1B	TAL PEN

Client Sample ID: Matrix Spike Duplicate
Date Collected: 07/18/17 12:00
Date Received: 07/19/17 12:05

Lab Sample ID: 400-140722-H-6-A 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	3520C			1006.8 mL	1.0 mL	361346	07/21/17 14:21	VC1	TAL PEN
Total/NA	Analysis	8270D LL		5	0.4 mL	1.0 mL	362014	07/27/17 23:27	S1B	TAL PEN

Laboratory References:

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

GC/MS VOA

Analysis Batch: 361302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	8260B	
400-140621-2	T12-ROX-071317	Total/NA	Water	8260B	
400-140621-3	P57-ROX-071317	Total/NA	Water	8260B	
400-140621-4	P93A-ROX-071317	Total/NA	Water	8260B	
400-140621-5	P58-ROX-071317	Total/NA	Water	8260B	
400-140621-6	TB-ROX-071317-8026-A	Total/NA	Water	8260B	
MB 400-361302/4	Method Blank	Total/NA	Water	8260B	
LCS 400-361302/1002	Lab Control Sample	Total/NA	Water	8260B	
400-140626-A-19 MS	Matrix Spike	Total/NA	Water	8260B	
400-140626-A-19 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 360871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	3520C	
400-140621-2	T12-ROX-071317	Total/NA	Water	3520C	
400-140621-3	P57-ROX-071317	Total/NA	Water	3520C	
400-140621-3 - DL	P57-ROX-071317	Total/NA	Water	3520C	
400-140621-4	P93A-ROX-071317	Total/NA	Water	3520C	
400-140621-5	P58-ROX-071317	Total/NA	Water	3520C	
400-140621-5 - DL	P58-ROX-071317	Total/NA	Water	3520C	
MB 400-360871/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-360871/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-360871/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-360871/12-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-360871/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 361125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	8270D	360871
MB 400-360871/1-A	Method Blank	Total/NA	Water	8270D	360871

Analysis Batch: 361194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	8270D LL	360871
400-140621-2	T12-ROX-071317	Total/NA	Water	8270D LL	360871
400-140621-3	P57-ROX-071317	Total/NA	Water	8270D LL	360871
400-140621-4	P93A-ROX-071317	Total/NA	Water	8270D LL	360871
400-140621-5	P58-ROX-071317	Total/NA	Water	8270D LL	360871
MB 400-360871/1-A	Method Blank	Total/NA	Water	8270D LL	360871
LCS 400-360871/2-A	Lab Control Sample	Total/NA	Water	8270D LL	360871
LCSD 400-360871/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	360871

Analysis Batch: 361330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-2	T12-ROX-071317	Total/NA	Water	8270D	360871
400-140621-3	P57-ROX-071317	Total/NA	Water	8270D	360871
400-140621-4	P93A-ROX-071317	Total/NA	Water	8270D	360871
400-140621-5	P58-ROX-071317	Total/NA	Water	8270D	360871

GC/MS Semi VOA (Continued)

Analysis Batch: 361330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-360871/11-A	Lab Control Sample	Total/NA	Water	8270D	360871
LCS 400-360871/2-A	Lab Control Sample	Total/NA	Water	8270D	360871
LCSD 400-360871/12-A	Lab Control Sample Dup	Total/NA	Water	8270D	360871
LCSD 400-360871/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360871

Prep Batch: 361346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-5	P58-ROX-071317	Total/NA	Water	3520C	
MB 400-361346/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-361346/2-A	Lab Control Sample	Total/NA	Water	3520C	
400-140722-G-6-A MS	Matrix Spike	Total/NA	Water	3520C	
400-140722-H-6-A MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 361353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-4	P93A-ROX-071317	Total/NA	Water	8270D LL	360871

Analysis Batch: 361497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-3 - DL	P57-ROX-071317	Total/NA	Water	8270D	360871
400-140621-5 - DL	P58-ROX-071317	Total/NA	Water	8270D	360871
LCSD 400-360871/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	360871

Analysis Batch: 361519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-5	P58-ROX-071317	Total/NA	Water	8270D LL	361346
LCS 400-361346/2-A	Lab Control Sample	Total/NA	Water	8270D LL	361346

Analysis Batch: 361618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-361346/1-A	Method Blank	Total/NA	Water	8270D LL	361346
MB 400-361346/1-A	Method Blank	Total/NA	Water	8270D LL	361346

Analysis Batch: 362014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140722-G-6-A MS	Matrix Spike	Total/NA	Water	8270D LL	361346
400-140722-H-6-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270D LL	361346

GC Semi VOA

Prep Batch: 361896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	8011	
400-140621-2	T12-ROX-071317	Total/NA	Water	8011	
400-140621-3	P57-ROX-071317	Total/NA	Water	8011	
400-140621-4	P93A-ROX-071317	Total/NA	Water	8011	
400-140621-5	P58-ROX-071317	Total/NA	Water	8011	
400-140621-7	TB-ROX-071317-8011-A	Total/NA	Water	8011	
MB 400-361896/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-361896/2-A	Lab Control Sample	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 361896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-361896/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 362028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-140621-1	P59-ROX-071317	Total/NA	Water	8011	361896
400-140621-2	T12-ROX-071317	Total/NA	Water	8011	361896
400-140621-3	P57-ROX-071317	Total/NA	Water	8011	361896
400-140621-4	P93A-ROX-071317	Total/NA	Water	8011	361896
400-140621-5	P58-ROX-071317	Total/NA	Water	8011	361896
400-140621-7	TB-ROX-071317-8011-A	Total/NA	Water	8011	361896
MB 400-361896/1-A	Method Blank	Total/NA	Water	8011	361896
LCS 400-361896/2-A	Lab Control Sample	Total/NA	Water	8011	361896
LCSD 400-361896/3-A	Lab Control Sample Dup	Total/NA	Water	8011	361896

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

Lab Sample ID: MB 400-361302/4
Matrix: Water
Analysis Batch: 361302

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			07/21/17 12:44	1
Acrolein	ND		20	10	ug/L			07/21/17 12:44	1
Acrylonitrile	ND		10	2.8	ug/L			07/21/17 12:44	1
Benzene	ND		1.0	0.38	ug/L			07/21/17 12:44	1
Bromobenzene	ND		1.0	0.54	ug/L			07/21/17 12:44	1
Bromochloromethane	ND		1.0	0.52	ug/L			07/21/17 12:44	1
Bromodichloromethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Bromoform	ND		5.0	0.71	ug/L			07/21/17 12:44	1
Bromomethane	ND		1.0	0.98	ug/L			07/21/17 12:44	1
2-Butanone (MEK)	ND		25	2.6	ug/L			07/21/17 12:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Chlorobenzene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Dibromochloromethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Chloroethane	ND		1.0	0.76	ug/L			07/21/17 12:44	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			07/21/17 12:44	1
Chloroform	ND		1.0	0.60	ug/L			07/21/17 12:44	1
1-Chlorohexane	ND		1.0	0.70	ug/L			07/21/17 12:44	1
Chloromethane	ND		1.0	0.83	ug/L			07/21/17 12:44	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 12:44	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			07/21/17 12:44	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			07/21/17 12:44	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			07/21/17 12:44	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			07/21/17 12:44	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			07/21/17 12:44	1
2-Hexanone	ND		25	3.1	ug/L			07/21/17 12:44	1
Isopropylbenzene	ND		1.0	0.53	ug/L			07/21/17 12:44	1
Methylene bromide	ND		5.0	0.59	ug/L			07/21/17 12:44	1
Methylene Chloride	ND		5.0	3.0	ug/L			07/21/17 12:44	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			07/21/17 12:44	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			07/21/17 12:44	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			07/21/17 12:44	1
Naphthalene	ND		1.0	1.0	ug/L			07/21/17 12:44	1
n-Butylbenzene	ND		1.0	0.76	ug/L			07/21/17 12:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/21/17 12:44	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			07/21/17 12:44	1
o-Xylene	ND		5.0	0.60	ug/L			07/21/17 12:44	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			07/21/17 12:44	1

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

Lab Sample ID: MB 400-361302/4
Matrix: Water
Analysis Batch: 361302

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			07/21/17 12:44	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			07/21/17 12:44	1
Styrene	ND		1.0	1.0	ug/L			07/21/17 12:44	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			07/21/17 12:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			07/21/17 12:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Tetrachloroethene	ND		1.0	0.58	ug/L			07/21/17 12:44	1
Toluene	ND		1.0	0.70	ug/L			07/21/17 12:44	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			07/21/17 12:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			07/21/17 12:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			07/21/17 12:44	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			07/21/17 12:44	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			07/21/17 12:44	1
Trichloroethene	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			07/21/17 12:44	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			07/21/17 12:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			07/21/17 12:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			07/21/17 12:44	1
Vinyl acetate	ND		25	2.0	ug/L			07/21/17 12:44	1
Vinyl chloride	ND		1.0	0.50	ug/L			07/21/17 12:44	1
Xylenes, Total	ND		10	1.6	ug/L			07/21/17 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*07/21/17 12:44*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*07/21/17 12:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/21/17 12:44*	*1*

Lab Sample ID: LCS 400-361302/1002
Matrix: Water
Analysis Batch: 361302

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	146		ug/L		73	43 - 160
Acrolein	500	498		ug/L		100	38 - 160
Acrylonitrile	500	418		ug/L		84	64 - 142
Benzene	50.0	46.5		ug/L		93	70 - 130
Bromobenzene	50.0	51.2		ug/L		102	70 - 132
Bromochloromethane	50.0	53.3		ug/L		107	70 - 130
Bromodichloromethane	50.0	41.8		ug/L		84	67 - 133
Bromoform	50.0	41.7		ug/L		83	57 - 140
Bromomethane	50.0	73.3		ug/L		147	10 - 160
2-Butanone (MEK)	200	184		ug/L		92	61 - 145
Carbon disulfide	50.0	39.3		ug/L		79	61 - 137
Carbon tetrachloride	50.0	46.9		ug/L		94	61 - 137
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130
Dibromochloromethane	50.0	44.9		ug/L		90	67 - 135
Chloroethane	50.0	48.2		ug/L		96	55 - 141

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

Lab Sample ID: LCS 400-361302/1002
Matrix: Water
Analysis Batch: 361302

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	40.9		ug/L		82	10 - 160
Chloroform	50.0	45.6		ug/L		91	69 - 130
1-Chlorohexane	50.0	40.7		ug/L		81	69 - 130
Chloromethane	50.0	40.6		ug/L		81	58 - 137
cis-1,2-Dichloroethene	50.0	42.1		ug/L		84	68 - 130
cis-1,3-Dichloropropene	50.0	42.6		ug/L		85	69 - 132
1,2-Dichlorobenzene	50.0	51.2		ug/L		102	67 - 130
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	47.7		ug/L		95	41 - 146
1,1-Dichloroethane	50.0	42.6		ug/L		85	70 - 130
1,2-Dichloroethane	50.0	41.9		ug/L		84	69 - 130
1,1-Dichloroethene	50.0	49.8		ug/L		100	63 - 134
1,2-Dichloropropane	50.0	42.8		ug/L		86	70 - 130
1,3-Dichloropropane	50.0	45.4		ug/L		91	70 - 130
2,2-Dichloropropane	50.0	41.1		ug/L		82	52 - 135
1,1-Dichloropropene	50.0	44.6		ug/L		89	70 - 130
Ethylbenzene	50.0	47.2		ug/L		94	70 - 130
Ethyl methacrylate	50.0	41.9		ug/L		84	68 - 130
Hexachlorobutadiene	50.0	47.7		ug/L		95	53 - 140
2-Hexanone	200	148		ug/L		74	65 - 137
Isopropylbenzene	50.0	48.8		ug/L		98	70 - 130
Methylene bromide	50.0	47.1		ug/L		94	70 - 130
Methylene Chloride	50.0	45.7		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	152		ug/L		76	69 - 138
Methyl tert-butyl ether	50.0	42.8		ug/L		86	66 - 130
m-Xylene & p-Xylene	50.0	46.8		ug/L		94	70 - 130
Naphthalene	50.0	50.0		ug/L		100	47 - 149
n-Butylbenzene	50.0	47.2		ug/L		94	67 - 130
N-Propylbenzene	50.0	47.6		ug/L		95	70 - 130
o-Chlorotoluene	50.0	47.6		ug/L		95	70 - 130
o-Xylene	50.0	46.2		ug/L		92	70 - 130
p-Chlorotoluene	50.0	46.7		ug/L		93	70 - 130
p-Isopropyltoluene	50.0	50.7		ug/L		101	65 - 130
sec-Butylbenzene	50.0	49.0		ug/L		98	66 - 130
Styrene	50.0	48.1		ug/L		96	70 - 130
tert-Butylbenzene	50.0	50.4		ug/L		101	64 - 139
1,1,1,2-Tetrachloroethane	50.0	47.7		ug/L		95	67 - 131
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/L		90	70 - 131
Tetrachloroethene	50.0	49.5		ug/L		99	65 - 130
Toluene	50.0	47.5		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	41.0		ug/L		82	63 - 130
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	60 - 138
1,2,4-Trichlorobenzene	50.0	50.7		ug/L		101	60 - 140
1,1,1-Trichloroethane	50.0	46.0		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	70 - 130
Trichloroethene	50.0	51.4		ug/L		103	70 - 130

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

Lab Sample ID: LCS 400-361302/1002
Matrix: Water
Analysis Batch: 361302

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	49.4		ug/L		99	65 - 138
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.4		ug/L		97	69 - 130
Vinyl acetate	100	93.0		ug/L		93	26 - 160
Vinyl chloride	50.0	46.6		ug/L		93	59 - 136
Xylenes, Total	100	93.0		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-140626-A-19 MS
Matrix: Water
Analysis Batch: 361302

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	142		ug/L		71	43 - 160
Acrolein	ND		500	504		ug/L		101	38 - 160
Acrylonitrile	ND		500	420		ug/L		84	62 - 149
Benzene	ND		50.0	45.6		ug/L		91	56 - 142
Bromobenzene	ND		50.0	45.3		ug/L		91	59 - 136
Bromochloromethane	ND		50.0	52.0		ug/L		104	64 - 140
Bromodichloromethane	ND		50.0	39.7		ug/L		79	59 - 143
Bromoform	ND		50.0	39.5		ug/L		79	50 - 140
Bromomethane	ND		50.0	77.4		ug/L		155	10 - 160
2-Butanone (MEK)	ND		200	183		ug/L		92	55 - 150
Carbon disulfide	ND		50.0	38.4		ug/L		77	48 - 152
Carbon tetrachloride	ND		50.0	46.5		ug/L		93	55 - 145
Chlorobenzene	ND		50.0	44.3		ug/L		89	64 - 130
Dibromochloromethane	ND		50.0	43.3		ug/L		87	56 - 143
Chloroethane	ND		50.0	49.6		ug/L		99	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	44.9		ug/L		90	60 - 141
1-Chlorohexane	ND		50.0	34.0		ug/L		68	56 - 136
Chloromethane	ND		50.0	41.2		ug/L		82	49 - 148
cis-1,2-Dichloroethene	ND		50.0	41.5		ug/L		83	59 - 143
cis-1,3-Dichloropropene	ND		50.0	40.2		ug/L		80	57 - 140
1,2-Dichlorobenzene	ND		50.0	43.6		ug/L		87	52 - 137
1,3-Dichlorobenzene	ND		50.0	43.0		ug/L		86	54 - 135
1,4-Dichlorobenzene	ND		50.0	42.6		ug/L		85	53 - 135
Dichlorodifluoromethane	ND		50.0	48.9		ug/L		98	16 - 160
1,1-Dichloroethane	ND		50.0	42.8		ug/L		86	61 - 144
1,2-Dichloroethane	ND		50.0	41.0		ug/L		82	60 - 141
1,1-Dichloroethene	ND		50.0	50.2		ug/L		100	54 - 147
1,2-Dichloropropane	ND		50.0	41.5		ug/L		83	66 - 137
1,3-Dichloropropane	ND		50.0	43.7		ug/L		87	66 - 133

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

Lab Sample ID: 400-140626-A-19 MS
Matrix: Water
Analysis Batch: 361302

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	40.6		ug/L		81	42 - 144
1,1-Dichloropropene	ND		50.0	43.5		ug/L		87	65 - 136
Ethylbenzene	ND		50.0	40.7		ug/L		81	58 - 131
Ethyl methacrylate	ND		50.0	40.8		ug/L		82	64 - 130
Hexachlorobutadiene	ND		50.0	32.5		ug/L		65	31 - 149
2-Hexanone	ND		200	143		ug/L		72	65 - 140
Isopropylbenzene	ND		50.0	40.2		ug/L		80	56 - 133
Methylene bromide	ND		50.0	46.7		ug/L		93	63 - 138
Methylene Chloride	ND		50.0	45.0		ug/L		90	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	150		ug/L		75	63 - 146
Methyl tert-butyl ether	ND		50.0	42.2		ug/L		84	59 - 137
m-Xylene & p-Xylene	ND		50.0	40.0		ug/L		80	57 - 130
Naphthalene	ND		50.0	45.3		ug/L		91	25 - 160
n-Butylbenzene	ND		50.0	35.3		ug/L		71	41 - 142
N-Propylbenzene	ND		50.0	37.8		ug/L		76	51 - 138
o-Chlorotoluene	ND		50.0	40.5		ug/L		81	53 - 134
o-Xylene	ND		50.0	39.8		ug/L		80	61 - 130
p-Chlorotoluene	ND		50.0	38.0		ug/L		76	54 - 133
p-Isopropyltoluene	ND		50.0	39.0		ug/L		78	48 - 139
sec-Butylbenzene	ND		50.0	38.0		ug/L		76	50 - 138
Styrene	ND		50.0	41.5		ug/L		83	58 - 131
tert-Butylbenzene	ND		50.0	41.7		ug/L		83	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	44.3		ug/L		89	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	44.3		ug/L		89	66 - 135
Tetrachloroethene	ND		50.0	42.1		ug/L		84	52 - 133
Toluene	ND		50.0	43.8		ug/L		88	65 - 130
trans-1,2-Dichloroethene	ND		50.0	47.9		ug/L		96	61 - 143
trans-1,3-Dichloropropene	ND		50.0	38.2		ug/L		76	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	41.6		ug/L		83	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	39.5		ug/L		79	39 - 148
1,1,1-Trichloroethane	ND		50.0	46.6		ug/L		93	57 - 142
1,1,2-Trichloroethane	ND		50.0	43.5		ug/L		87	66 - 131
Trichloroethene	ND		50.0	49.6		ug/L		99	64 - 136
Trichlorofluoromethane	ND		50.0	53.9		ug/L		108	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	39.3		ug/L		79	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	39.7		ug/L		79	52 - 135
Vinyl acetate	ND		100	93.0		ug/L		93	26 - 160
Vinyl chloride	ND		50.0	48.2		ug/L		96	46 - 152
Xylenes, Total	ND		100	79.8		ug/L		80	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: 400-140626-A-19 MSD
Matrix: Water
Analysis Batch: 361302

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	136		ug/L		68	43 - 160	4	30
Acrolein	ND		500	483		ug/L		97	38 - 160	4	31
Acrylonitrile	ND		500	409		ug/L		82	62 - 149	3	30
Benzene	ND		50.0	43.3		ug/L		87	56 - 142	5	30
Bromobenzene	ND		50.0	43.5		ug/L		87	59 - 136	4	30
Bromochloromethane	ND		50.0	50.3		ug/L		101	64 - 140	3	30
Bromodichloromethane	ND		50.0	38.5		ug/L		77	59 - 143	3	30
Bromoform	ND		50.0	38.0		ug/L		76	50 - 140	4	30
Bromomethane	ND		50.0	79.5		ug/L		159	10 - 160	3	50
2-Butanone (MEK)	ND		200	175		ug/L		88	55 - 150	5	30
Carbon disulfide	ND		50.0	36.8		ug/L		74	48 - 152	4	30
Carbon tetrachloride	ND		50.0	43.8		ug/L		88	55 - 145	6	30
Chlorobenzene	ND		50.0	43.4		ug/L		87	64 - 130	2	30
Dibromochloromethane	ND		50.0	42.0		ug/L		84	56 - 143	3	30
Chloroethane	ND		50.0	46.3		ug/L		93	50 - 151	7	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	43.4		ug/L		87	60 - 141	3	30
1-Chlorohexane	ND		50.0	32.9		ug/L		66	56 - 136	3	30
Chloromethane	ND		50.0	39.5		ug/L		79	49 - 148	4	31
cis-1,2-Dichloroethene	ND		50.0	39.3		ug/L		79	59 - 143	5	30
cis-1,3-Dichloropropene	ND		50.0	39.5		ug/L		79	57 - 140	2	30
1,2-Dichlorobenzene	ND		50.0	42.0		ug/L		84	52 - 137	4	30
1,3-Dichlorobenzene	ND		50.0	41.5		ug/L		83	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	41.5		ug/L		83	53 - 135	3	30
Dichlorodifluoromethane	ND		50.0	48.1		ug/L		96	16 - 160	2	31
1,1-Dichloroethane	ND		50.0	41.1		ug/L		82	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	40.2		ug/L		80	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	48.3		ug/L		97	54 - 147	4	30
1,2-Dichloropropane	ND		50.0	39.7		ug/L		79	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	43.2		ug/L		86	66 - 133	1	30
2,2-Dichloropropane	ND		50.0	39.1		ug/L		78	42 - 144	4	31
1,1-Dichloropropene	ND		50.0	41.3		ug/L		83	65 - 136	5	30
Ethylbenzene	ND		50.0	40.0		ug/L		80	58 - 131	2	30
Ethyl methacrylate	ND		50.0	40.1		ug/L		80	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	32.3		ug/L		65	31 - 149	1	36
2-Hexanone	ND		200	144		ug/L		72	65 - 140	1	30
Isopropylbenzene	ND		50.0	40.0		ug/L		80	56 - 133	1	30
Methylene bromide	ND		50.0	44.8		ug/L		90	63 - 138	4	30
Methylene Chloride	ND		50.0	44.5		ug/L		89	60 - 146	1	32
4-Methyl-2-pentanone (MIBK)	ND		200	148		ug/L		74	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	41.6		ug/L		83	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	39.4		ug/L		79	57 - 130	1	30
Naphthalene	ND		50.0	44.7		ug/L		89	25 - 160	1	30
n-Butylbenzene	ND		50.0	33.2		ug/L		66	41 - 142	6	31
N-Propylbenzene	ND		50.0	36.9		ug/L		74	51 - 138	2	30
o-Chlorotoluene	ND		50.0	37.7		ug/L		75	53 - 134	7	30
o-Xylene	ND		50.0	39.2		ug/L		78	61 - 130	2	30
p-Chlorotoluene	ND		50.0	36.9		ug/L		74	54 - 133	3	30

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

Lab Sample ID: 400-140626-A-19 MSD
Matrix: Water
Analysis Batch: 361302

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	37.8		ug/L		76	48 - 139	3	30
sec-Butylbenzene	ND		50.0	37.0		ug/L		74	50 - 138	3	30
Styrene	ND		50.0	40.8		ug/L		82	58 - 131	2	30
tert-Butylbenzene	ND		50.0	40.6		ug/L		81	54 - 146	3	30
1,1,1,2-Tetrachloroethane	ND		50.0	43.6		ug/L		87	59 - 137	2	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.7		ug/L		87	66 - 135	1	30
Tetrachloroethene	ND		50.0	40.6		ug/L		81	52 - 133	3	30
Toluene	ND		50.0	42.6		ug/L		85	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	45.5		ug/L		91	61 - 143	5	30
trans-1,3-Dichloropropene	ND		50.0	38.0		ug/L		76	53 - 133	0	30
1,2,3-Trichlorobenzene	ND		50.0	40.9		ug/L		82	43 - 145	2	30
1,2,4-Trichlorobenzene	ND		50.0	38.7		ug/L		77	39 - 148	2	30
1,1,1-Trichloroethane	ND		50.0	43.4		ug/L		87	57 - 142	7	30
1,1,2-Trichloroethane	ND		50.0	42.8		ug/L		86	66 - 131	2	30
Trichloroethene	ND		50.0	46.7		ug/L		93	64 - 136	6	30
Trichlorofluoromethane	ND		50.0	50.6		ug/L		101	54 - 156	6	30
1,2,3-Trichloropropane	ND		50.0	47.0		ug/L		94	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	38.1		ug/L		76	50 - 139	3	30
1,3,5-Trimethylbenzene	ND		50.0	38.3		ug/L		77	52 - 135	4	30
Vinyl acetate	ND		100	90.6		ug/L		91	26 - 160	3	33
Vinyl chloride	ND		50.0	45.4		ug/L		91	46 - 152	6	30
Xylenes, Total	ND		100	78.7		ug/L		79	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-360871/1-A
Matrix: Water
Analysis Batch: 361125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		07/18/17 11:39	07/20/17 18:07	1
Benzenethiol	ND		10	1.7	ug/L		07/18/17 11:39	07/20/17 18:07	1
Benzoic acid	ND		30	7.3	ug/L		07/18/17 11:39	07/20/17 18:07	1
Benzyl alcohol	ND		10	2.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		07/18/17 11:39	07/20/17 18:07	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		07/18/17 11:39	07/20/17 18:07	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		07/18/17 11:39	07/20/17 18:07	1
Bis(2-ethylhexyl) phthalate	4.62	J	10	2.3	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		07/18/17 11:39	07/20/17 18:07	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Chloroaniline	ND		10	3.4	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		07/18/17 11:39	07/20/17 18:07	1
2-Chloronaphthalene	ND		10	0.52	ug/L		07/18/17 11:39	07/20/17 18:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-360871/1-A
Matrix: Water
Analysis Batch: 361125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Dibenzofuran	ND		10	0.52	ug/L		07/18/17 11:39	07/20/17 18:07	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Diethyl phthalate	ND		10	0.70	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		07/18/17 11:39	07/20/17 18:07	1
Dimethyl phthalate	ND		10	0.60	ug/L		07/18/17 11:39	07/20/17 18:07	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		07/18/17 11:39	07/20/17 18:07	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		07/18/17 11:39	07/20/17 18:07	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		07/18/17 11:39	07/20/17 18:07	1
1,4-Dioxane	ND		10	1.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Hexachlorobenzene	ND		10	0.25	ug/L		07/18/17 11:39	07/20/17 18:07	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		07/18/17 11:39	07/20/17 18:07	1
Hexachloroethane	ND		10	4.2	ug/L		07/18/17 11:39	07/20/17 18:07	1
Indene	ND		10	1.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
Isophorone	ND		10	0.57	ug/L		07/18/17 11:39	07/20/17 18:07	1
2-Methylphenol	ND		10	1.8	ug/L		07/18/17 11:39	07/20/17 18:07	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
2-Nitroaniline	ND		10	2.2	ug/L		07/18/17 11:39	07/20/17 18:07	1
3-Nitroaniline	ND		10	1.8	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Nitroaniline	ND		10	2.5	ug/L		07/18/17 11:39	07/20/17 18:07	1
Nitrobenzene	ND		10	0.55	ug/L		07/18/17 11:39	07/20/17 18:07	1
2-Nitrophenol	ND		10	0.65	ug/L		07/18/17 11:39	07/20/17 18:07	1
4-Nitrophenol	ND		10	2.1	ug/L		07/18/17 11:39	07/20/17 18:07	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		07/18/17 11:39	07/20/17 18:07	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		07/18/17 11:39	07/20/17 18:07	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		07/18/17 11:39	07/20/17 18:07	1
Pentachlorophenol	ND		20	1.8	ug/L		07/18/17 11:39	07/20/17 18:07	1
Phenol	ND		10	2.6	ug/L		07/18/17 11:39	07/20/17 18:07	1
Pyridine	ND		10	3.2	ug/L		07/18/17 11:39	07/20/17 18:07	1
Quinoline	ND		10	6.0	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		07/18/17 11:39	07/20/17 18:07	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		07/18/17 11:39	07/20/17 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*34 - 120*	*07/18/17 11:39*	*07/20/17 18:07*	*1*
2-Fluorophenol	*48*		*10 - 120*	*07/18/17 11:39*	*07/20/17 18:07*	*1*
Nitrobenzene-d5	*79*		*27 - 120*	*07/18/17 11:39*	*07/20/17 18:07*	*1*
Phenol-d5	*66*		*10 - 120*	*07/18/17 11:39*	*07/20/17 18:07*	*1*
Terphenyl-d14	*100*		*53 - 125*	*07/18/17 11:39*	*07/20/17 18:07*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*07/18/17 11:39*	*07/20/17 18:07*	*1*

Lab Sample ID: LCS 400-360871/11-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzenethiol	30.0	ND	*	ug/L		2	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	70		34 - 120
2-Fluorophenol	60		10 - 120
Nitrobenzene-d5	67		27 - 120
Phenol-d5	67		10 - 120
Terphenyl-d14	65		53 - 125
2,4,6-Tribromophenol	57		15 - 135

Lab Sample ID: LCS 400-360871/2-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	18.9		ug/L		63	29 - 120
Benzoic acid	125	ND	*	ug/L		5	10 - 150
Benzyl alcohol	30.0	26.6		ug/L		89	19 - 125
Bis(2-chloroethoxy)methane	30.0	22.2		ug/L		74	45 - 120
Bis(2-chloroethyl)ether	30.0	24.3		ug/L		81	48 - 120
bis (2-chloroisopropyl) ether	30.0	20.6		ug/L		69	30 - 125
Bis(2-ethylhexyl) phthalate	30.0	42.9		ug/L		143	48 - 150
4-Bromophenyl phenyl ether	30.0	25.6		ug/L		85	55 - 122
Butyl benzyl phthalate	30.0	23.3		ug/L		78	46 - 145
4-Chloroaniline	30.0	21.9		ug/L		73	30 - 120
4-Chloro-3-methylphenol	30.0	24.5		ug/L		82	39 - 140
2-Chloronaphthalene	30.0	26.7		ug/L		89	52 - 120
2-Chlorophenol	30.0	17.0		ug/L		57	34 - 120
4-Chlorophenyl phenyl ether	30.0	28.2		ug/L		94	58 - 124
Dibenz[a,h]acridine	30.0	37.2		ug/L		124	46 - 149
Dibenzofuran	30.0	28.0		ug/L		93	58 - 123
3,3'-Dichlorobenzidine	40.0	43.0		ug/L		107	39 - 135
2,4-Dichlorophenol	30.0	9.90	J *	ug/L		33	39 - 128
Diethyl phthalate	30.0	32.0		ug/L		107	44 - 146
2,4-Dimethylphenol	30.0	25.5		ug/L		85	44 - 120
Dimethyl phthalate	30.0	26.9		ug/L		90	50 - 131
Di-n-butyl phthalate	30.0	28.6		ug/L		95	55 - 131
4,6-Dinitro-ortho-cresol	60.0	14.0		ug/L		23	10 - 150
2,4-Dinitrophenol	60.0	10.2	J	ug/L		17	10 - 150
2,4-Dinitrotoluene	30.0	32.2		ug/L		107	58 - 140
2,6-Dinitrotoluene	30.0	27.7		ug/L		92	57 - 130
Di-n-octyl phthalate	30.0	26.8		ug/L		89	50 - 150
1,4-Dioxane	30.0	19.0		ug/L		63	25 - 120
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.3		ug/L		78	47 - 123
Hexachlorobenzene	30.0	27.4		ug/L		91	52 - 131
Hexachlorocyclopentadiene	30.0	ND	*	ug/L		0	10 - 129
Hexachloroethane	30.0	20.7		ug/L		69	41 - 120
Indene	30.0	21.3		ug/L		71	47 - 120
Isophorone	30.0	22.3		ug/L		74	49 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-360871/2-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	30.0	21.8		ug/L		73	39 - 123
3 & 4 Methylphenol	30.0	26.2		ug/L		87	38 - 121
2-Nitroaniline	30.0	27.5		ug/L		92	47 - 150
3-Nitroaniline	30.0	31.9		ug/L		106	34 - 132
4-Nitroaniline	30.0	34.5		ug/L		115	41 - 135
Nitrobenzene	30.0	22.2		ug/L		74	47 - 120
2-Nitrophenol	30.0	19.6		ug/L		65	28 - 136
4-Nitrophenol	60.0	14.1		ug/L		23	10 - 150
N-Nitrosodimethylamine	30.0	16.5		ug/L		55	22 - 148
N-Nitrosodi-n-propylamine	30.0	24.4		ug/L		81	44 - 120
N-Nitrosodiphenylamine	29.8	26.9		ug/L		90	56 - 120
Pentachlorophenol	60.0	31.7		ug/L		53	15 - 141
Phenol	30.0	21.3		ug/L		71	33 - 120
Pyridine	30.0	30.9		ug/L		103	26 - 120
Quinoline	30.0	28.4		ug/L		95	51 - 129
2,4,5-Trichlorophenol	30.0	21.5		ug/L		72	38 - 147
2,4,6-Trichlorophenol	30.0	20.6		ug/L		69	36 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 120*
2-Fluorophenol	*39*		*10 - 120*
Nitrobenzene-d5	*62*		*27 - 120*
Phenol-d5	*53*		*10 - 120*
Terphenyl-d14	*69*		*53 - 125*
2,4,6-Tribromophenol	*68*		*15 - 135*

Lab Sample ID: LCSD 400-360871/12-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzenethiol	30.0	6.06	J *	ug/L		20	10 - 120	163	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*34 - 120*
2-Fluorophenol	*49*		*10 - 120*
Nitrobenzene-d5	*58*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*53*		*53 - 125*
2,4,6-Tribromophenol	*56*		*15 - 135*

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	23.1		ug/L		77	29 - 120	20	30
Benzoic acid	125	ND	*	ug/L		5	10 - 150	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzyl alcohol	30.0	30.8		ug/L		103	19 - 125	15	30
Bis(2-chloroethoxy)methane	30.0	25.3		ug/L		84	45 - 120	13	30
Bis(2-chloroethyl)ether	30.0	27.0		ug/L		90	48 - 120	11	30
bis (2-chloroisopropyl) ether	30.0	22.6		ug/L		75	30 - 125	9	30
4-Bromophenyl phenyl ether	30.0	29.8		ug/L		99	55 - 122	15	30
Butyl benzyl phthalate	30.0	29.0		ug/L		97	46 - 145	22	30
4-Chloroaniline	30.0	26.8		ug/L		89	30 - 120	20	30
4-Chloro-3-methylphenol	30.0	26.0		ug/L		87	39 - 140	6	30
2-Chloronaphthalene	30.0	30.6		ug/L		102	52 - 120	14	30
2-Chlorophenol	30.0	17.6		ug/L		59	34 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	31.9		ug/L		106	58 - 124	12	30
Dibenz[a,h]acridine	30.0	43.3		ug/L		144	46 - 149	15	30
Dibenzofuran	30.0	32.2		ug/L		107	58 - 123	14	30
3,3'-Dichlorobenzidine	40.0	51.1		ug/L		128	39 - 135	17	30
2,4-Dichlorophenol	30.0	7.74	J *	ug/L		26	39 - 128	24	30
Diethyl phthalate	30.0	35.9		ug/L		120	44 - 146	11	30
2,4-Dimethylphenol	30.0	28.8		ug/L		96	44 - 120	12	30
Dimethyl phthalate	30.0	30.0		ug/L		100	50 - 131	11	30
Di-n-butyl phthalate	30.0	33.5		ug/L		112	55 - 131	16	30
4,6-Dinitro-ortho-cresol	60.0	16.4		ug/L		27	10 - 150	16	30
2,4-Dinitrophenol	60.0	ND	*	ug/L		0	10 - 150	200	30
2,4-Dinitrotoluene	30.0	32.1		ug/L		107	58 - 140	0	30
2,6-Dinitrotoluene	30.0	31.1		ug/L		104	57 - 130	12	30
Di-n-octyl phthalate	30.0	30.9		ug/L		103	50 - 150	14	30
1,4-Dioxane	30.0	15.1		ug/L		50	25 - 120	23	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.4		ug/L		91	47 - 123	16	30
Hexachlorobenzene	30.0	31.5		ug/L		105	52 - 131	14	30
Hexachlorocyclopentadiene	30.0	ND	*	ug/L		0	10 - 129	NC	30
Hexachloroethane	30.0	20.3		ug/L		68	41 - 120	2	30
Indene	30.0	22.5		ug/L		75	47 - 120	6	30
Isophorone	30.0	25.7		ug/L		86	49 - 120	14	30
2-Methylphenol	30.0	23.0		ug/L		77	39 - 123	6	30
3 & 4 Methylphenol	30.0	26.0		ug/L		87	38 - 121	1	30
2-Nitroaniline	30.0	31.2		ug/L		104	47 - 150	13	30
3-Nitroaniline	30.0	35.5		ug/L		118	34 - 132	11	30
Nitrobenzene	30.0	25.5		ug/L		85	47 - 120	14	30
2-Nitrophenol	30.0	22.2		ug/L		74	28 - 136	12	30
4-Nitrophenol	60.0	30.2	*	ug/L		50	10 - 150	73	30
N-Nitrosodimethylamine	30.0	21.1		ug/L		70	22 - 148	24	30
N-Nitrosodi-n-propylamine	30.0	26.0		ug/L		87	44 - 120	6	30
N-Nitrosodiphenylamine	29.8	31.3		ug/L		105	56 - 120	15	30
Pentachlorophenol	60.0	5.63	J *	ug/L		9	15 - 141	140	30
Phenol	30.0	23.0		ug/L		77	33 - 120	8	30
Pyridine	30.0	35.3		ug/L		118	26 - 120	13	30
Quinoline	30.0	33.1		ug/L		110	51 - 129	15	30
2,4,5-Trichlorophenol	30.0	20.3		ug/L		68	38 - 147	6	30
2,4,6-Trichlorophenol	30.0	17.9		ug/L		60	36 - 139	14	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	75		34 - 120
2-Fluorophenol	44		10 - 120
Nitrobenzene-d5	72		27 - 120
Phenol-d5	58		10 - 120
Terphenyl-d14	86		53 - 125
2,4,6-Tribromophenol	54		15 - 135

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	30.0	44.7		ug/L		149	48 - 150	4	30
2,4,6-Trichlorophenol	30.0	17.5		ug/L		58	36 - 139	14	30

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-360871/1-A
Matrix: Water
Analysis Batch: 361194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
Anthracene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Chrysene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Fluoranthene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
Fluorene	ND		0.20	0.021	ug/L		07/18/17 11:39	07/20/17 13:39	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/18/17 11:39	07/20/17 13:39	1
Phenanthrene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
Pyrene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/18/17 11:39	07/20/17 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	123		33 - 138	07/18/17 11:39	07/20/17 13:39	1
2-Fluorobiphenyl	81		15 - 122	07/18/17 11:39	07/20/17 13:39	1
Nitrobenzene-d5	64		19 - 130	07/18/17 11:39	07/20/17 13:39	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-360871/2-A
Matrix: Water
Analysis Batch: 361194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	25.7		ug/L		86	41 - 120
Acenaphthylene	30.0	26.1		ug/L		87	44 - 120
Anthracene	30.0	28.7		ug/L		96	49 - 120
Benzo[a]anthracene	30.0	29.5		ug/L		98	61 - 135
Benzo[a]pyrene	30.0	25.4		ug/L		85	52 - 120
Benzo[b]fluoranthene	30.0	28.5		ug/L		95	53 - 134
Benzo[g,h,i]perylene	30.0	31.8		ug/L		106	47 - 133
Benzo[k]fluoranthene	30.0	28.3		ug/L		94	57 - 134
Chrysene	30.0	31.1		ug/L		104	55 - 122
Dibenz(a,h)anthracene	30.0	31.8		ug/L		106	48 - 146
Fluoranthene	30.0	30.6		ug/L		102	54 - 128
Fluorene	30.0	27.5		ug/L		92	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	31.7		ug/L		106	43 - 142
Phenanthrene	30.0	29.4		ug/L		98	48 - 120
Pyrene	30.0	24.8		ug/L		83	48 - 132
1-Methylnaphthalene	30.0	21.4		ug/L		71	41 - 120
2-Methylnaphthalene	30.0	20.7		ug/L		69	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*75*		*33 - 138*
2-Fluorobiphenyl	*80*		*15 - 122*
Nitrobenzene-d5	*45*		*19 - 130*

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.0		ug/L		83	41 - 120	2	56
Acenaphthylene	30.0	25.7		ug/L		86	44 - 120	2	56
Anthracene	30.0	28.4		ug/L		95	49 - 120	1	51
Benzo[a]anthracene	30.0	28.5		ug/L		95	61 - 135	3	49
Benzo[a]pyrene	30.0	24.5		ug/L		82	52 - 120	4	50
Benzo[b]fluoranthene	30.0	27.7		ug/L		92	53 - 134	3	54
Benzo[g,h,i]perylene	30.0	29.7		ug/L		99	47 - 133	7	50
Benzo[k]fluoranthene	30.0	26.6		ug/L		89	57 - 134	6	52
Chrysene	30.0	30.1		ug/L		100	55 - 122	3	50
Dibenz(a,h)anthracene	30.0	29.8		ug/L		99	48 - 146	7	50
Fluoranthene	30.0	30.4		ug/L		101	54 - 128	0	52
Fluorene	30.0	27.0		ug/L		90	45 - 125	2	56
Indeno[1,2,3-cd]pyrene	30.0	29.9		ug/L		100	43 - 142	6	51
Phenanthrene	30.0	29.2		ug/L		97	48 - 120	1	56
Pyrene	30.0	24.5		ug/L		82	48 - 132	1	52
1-Methylnaphthalene	30.0	21.0		ug/L		70	41 - 120	2	55
2-Methylnaphthalene	30.0	20.4		ug/L		68	32 - 124	2	57

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-360871/3-A
Matrix: Water
Analysis Batch: 361194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 360871

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	74		33 - 138
2-Fluorobiphenyl	79		15 - 122
Nitrobenzene-d5	45		19 - 130

Lab Sample ID: MB 400-361346/1-A
Matrix: Water
Analysis Batch: 361618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
Acenaphthylene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
Anthracene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Chrysene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Fluoranthene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
Fluorene	ND		0.20	0.021	ug/L		07/21/17 14:21	07/25/17 14:11	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		07/21/17 14:21	07/25/17 14:11	1
Phenanthrene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
Pyrene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		07/21/17 14:21	07/25/17 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		19 - 130	07/21/17 14:21	07/25/17 14:11	1

Lab Sample ID: MB 400-361346/1-A
Matrix: Water
Analysis Batch: 361618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361346

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	32	X	33 - 138	07/21/17 14:21	07/25/17 16:07	1

Lab Sample ID: LCS 400-361346/2-A
Matrix: Water
Analysis Batch: 361519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361346

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	26.1		ug/L		87	44 - 120
Anthracene	30.0	27.1		ug/L		90	49 - 120
Benzo[a]anthracene	30.0	27.4		ug/L		91	61 - 135
Benzo[a]pyrene	30.0	24.4		ug/L		81	52 - 120

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-361346/2-A
Matrix: Water
Analysis Batch: 361519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	30.0	27.3		ug/L		91	53 - 134
Benzo[g,h,i]perylene	30.0	29.6		ug/L		99	47 - 133
Benzo[k]fluoranthene	30.0	25.1		ug/L		84	57 - 134
Chrysene	30.0	28.2		ug/L		94	55 - 122
Dibenz(a,h)anthracene	30.0	31.8		ug/L		106	48 - 146
Fluoranthene	30.0	30.5		ug/L		102	54 - 128
Fluorene	30.0	25.6		ug/L		85	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	30.8		ug/L		103	43 - 142
Phenanthrene	30.0	27.3		ug/L		91	48 - 120
Pyrene	30.0	20.0		ug/L		67	48 - 132
1-Methylnaphthalene	30.0	26.2		ug/L		87	41 - 120
2-Methylnaphthalene	30.0	25.2		ug/L		84	32 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*76*		*33 - 138*
2-Fluorobiphenyl	*97*		*15 - 122*
Nitrobenzene-d5	*68*		*19 - 130*

Lab Sample ID: 400-140722-G-6-A MS
Matrix: Water
Analysis Batch: 362014

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 361346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F1	29.7	NC		ug/L			35 - 113
Acenaphthylene	NC	F1	29.7	NC		ug/L			41 - 118
Anthracene	NC	F1	29.7	NC		ug/L			45 - 122
Benzo[a]anthracene	NC	F1	29.7	NC		ug/L			55 - 133
Benzo[a]pyrene	ND	F1	29.7	NC		ug/L			50 - 108
Benzo[b]fluoranthene	NC	F1	29.7	NC		ug/L			50 - 128
Benzo[g,h,i]perylene	NC	F1	29.7	NC		ug/L			46 - 133
Benzo[k]fluoranthene	NC	F1	29.7	NC		ug/L			52 - 128
Chrysene	NC	F1	29.7	NC		ug/L			52 - 116
Dibenz(a,h)anthracene	ND	F1	29.7	NC		ug/L			52 - 143
Fluoranthene	NC	F1	29.7	NC		ug/L			32 - 150
Fluorene	NC	F1	29.7	NC		ug/L			15 - 150
Indeno[1,2,3-cd]pyrene	ND	F1	29.7	NC		ug/L			41 - 141
Phenanthrene	NC	F1	29.7	NC		ug/L			36 - 125
Pyrene	NC	F1	29.7	NC		ug/L			41 - 127
1-Methylnaphthalene	NC	F1	29.7	NC		ug/L			10 - 150
2-Methylnaphthalene	NC	F1	29.7	NC		ug/L			10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*78*		*33 - 138*
2-Fluorobiphenyl	*91*		*15 - 122*
Nitrobenzene-d5	*83*		*19 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 400-140722-H-6-A MSD
Matrix: Water
Analysis Batch: 362014

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 361346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F1	29.8	NC	F1	ug/L		0	35 - 113	NC	49
Acenaphthylene	NC	F1	29.8	NC	F1	ug/L		0	41 - 118	NC	48
Anthracene	NC	F1	29.8	NC	F1	ug/L		0	45 - 122	NC	56
Benzo[a]anthracene	NC	F1	29.8	NC	F1	ug/L		0	55 - 133	NC	57
Benzo[a]pyrene	ND	F1	29.8	NC	F1	ug/L		0	50 - 108	NC	59
Benzo[b]fluoranthene	NC	F1	29.8	NC	F1	ug/L		0	50 - 128	NC	62
Benzo[g,h,i]perylene	NC	F1	29.8	NC	F1	ug/L		0	46 - 133	NC	58
Benzo[k]fluoranthene	NC	F1	29.8	NC	F1	ug/L		0	52 - 128	NC	58
Chrysene	NC	F1	29.8	NC	F1	ug/L		0	52 - 116	NC	59
Dibenz(a,h)anthracene	ND	F1	29.8	NC	F1	ug/L		0	52 - 143	NC	60
Fluoranthene	NC	F1	29.8	NC	F1	ug/L		0	32 - 150	NC	59
Fluorene	NC	F1	29.8	NC	F1	ug/L		0	15 - 150	NC	49
Indeno[1,2,3-cd]pyrene	ND	F1	29.8	NC	F1	ug/L		0	41 - 141	NC	58
Phenanthrene	NC	F1	29.8	NC	F1	ug/L		0	36 - 125	NC	69
Pyrene	NC	F1	29.8	NC	F1	ug/L		0	41 - 127	NC	58
1-Methylnaphthalene	NC	F1	29.8	NC	F1	ug/L		0	10 - 150	NC	66
2-Methylnaphthalene	NC	F1	29.8	NC	F1	ug/L		0	10 - 150	NC	66

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*93*		*33 - 138*
2-Fluorobiphenyl	*91*		*15 - 122*
Nitrobenzene-d5	*91*		*19 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-361896/1-A
Matrix: Water
Analysis Batch: 362028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361896

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		07/27/17 08:31	07/28/17 05:49	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		07/27/17 08:31	07/28/17 05:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*		*51 - 149*	*07/27/17 08:31*	*07/28/17 05:49*	*1*

Lab Sample ID: LCS 400-361896/2-A
Matrix: Water
Analysis Batch: 362028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361896

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.161	*	ug/L		161	60 - 140
1,2-Dibromoethane	0.100	0.180	*	ug/L		180	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*117*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-361896/3-A
Matrix: Water
Analysis Batch: 362028

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 361896

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.100	0.154	*	ug/L		154	60 - 140	2	30
1,2-Dibromoethane			0.100	0.138		ug/L		138	60 - 140	26	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*121*		*51 - 149*

LAB (LOCATION)

☐ ACCUTEST (_____)

☐ CALSCIENCE (_____)

☑ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr Pensacola, FL 32514 (850-474-1001))

☐ Other (Lab Vendor # 1364569 (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
60527968 - 1.03.003 / 1.03.0033	USPC/00114/R/02

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 7/13/17

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 60527968 - 1.03.003 / 1.03.0033

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

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

PHONE NO:

E-MAIL:

AECOM Work ID:

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

SAMPLER NAME(S) (Print): J. Roberts, J. Clark, 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; melissa.remger@aecom.com

TURNAROUND TIME (BUSINESS DAYS):

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

☐ 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 60527968 - 1.03.0033: VOC 8011; PAH 8270LL

NON-UNIT COST 60527968 - 1.03.003: VOC 8260; SVOC 8270

400-140621 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°: 24 IR-2 2.3

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	Container PID Readings or Laboratory Notes
	P59-ROX-071917	7-13-17	1000	Water	4			2		6	X	X	X	X	cooler #1
	T12-ROX-071317	7-13-17	1045	Water	4			2		6	X	X	X	X	cooler #1
	P57-ROX-071317	7-13-17	1125	Water	4			2		6	X	X	X	X	cooler #2
	P93A-ROX-071317	7-13-17	1145	Water	4			2		6	X	X	X	X	cooler #2
	P58-ROX-071317	7-13-17	1215	Water	4			2		6	X	X	X	X	cooler #2
	TB-ROX-071317-8260-A	7-13-17	0000	Water	2					2			X		cooler #1
	TB-ROX-071317-8011-A	7-13-17	0000	Water	2					2	X				cooler #1

Relinquished by (Signature)	Received by (Signature)	Date	Time
Julia Roberts	Fedex	07/13/17	
		7-15-17	08:49

Version: 14Dec15

* ALL VOAs in cooler #1.

Page 61 of 63

8/30/2017 (Rev. 1)

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-140621-1

Login Number: 140621
List Number: 1
Creator: Perez, Trina M

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	2.4°C, 2.3°C IR-2
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	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY

TestAmerica Job ID: 400-140621-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
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	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

AECOM
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
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