Adelaar

(Former Concord Hotel and Resort)

SULLIVAN COUNTY
TOWN OF THOMPSON, NEW YORK

Periodic Review Report

NYSDEC Brownfield Cleanup Program Site Number: C353014

AKRF Project Number: 40376

Prepared for:

EPR Concord II, L.P.
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MAY 2020

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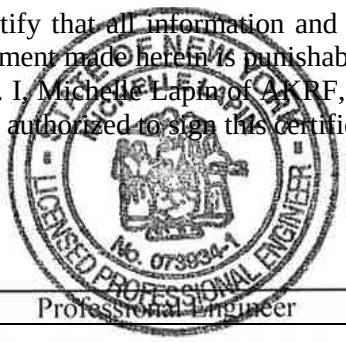
P.E. CERTIFICATION

I, Michelle Lapin, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the December 2017 Site Management Plan protocols, and I certify that the documentation of site management activities is accurately presented in this Periodic Review Report for the Adelaar (Former Concord Hotel and Resort) site, located in the Town of Thompson, New York (BCP Site No. C353014).

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and engineering controls employed at this Site are unchanged from the date the controls were put in place, or last approved by the NYSDEC;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of the engineering controls;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- No new information has come to my attention, including groundwater monitoring data from wells located at the Site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Michelle Lapin of AKRF, Inc., am certifying Owner's Designated Site Representative and I have been authorized to sign this certification for the Site.



Professional Engineer

05/29/2020
Date

Signature

EXECUTIVE SUMMARY

This Periodic Review Report (PRR) was prepared on behalf of the EPR Concord II, L.P. (the Volunteer) as an element of the remedial program at the Adelaar Site located in the Town of Thompson, New York (the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). A Site location map is provided as Figure 1. The Site, owned by the Volunteer, included four separate remediation areas or Operating Units (OUs), described as the following:

- OU-1B – Former Gas Station – Remediated to Track 1 Unrestricted Use, specific end use not yet determined.
- OU-1C – International Club House Disposal Area – Remediated to Track 1 Unrestricted Use, specific end use not yet determined.
- OU-2 – Golf Maintenance Building and Disposal Area – Maintenance Building and disposal area remediated to Track 2 Commercial Use. OU-2 was redeveloped as part of the Chalet Road re-alignment and included a stormwater detention basin.
- OU-3 – International Golf Course Disposal Area – Remediated to Track 2 Commercial Use, and was redeveloped as part of a Waterpark.

As reported to NYSDEC and New York State Department of Health (NYSDOH), a Remedial Investigation (RI) completed at the Site between August and December 2008 confirmed that soil and groundwater contamination related to underground storage tanks (USTs) and/or unregulated landfills was present at the OUs. Each OU was remediated in accordance with the Brownfield Cleanup Agreement (BCA) for Site #C353014, which was executed on August 19, 2015. Remedial activities included soil removal at each OU, and utilization of a site cover system over the consolidated landfill area at OU-2. The remediation work was completed between June 2016 and August 2017. The NYSDEC-approved remediation plan for OU-2 and OU-3 included the use of Engineering and/or Institutional Controls (ECs/ICs) to achieve the Remedial Action Objectives (RAOs). NYSDEC approved the Final Engineering Report (FER) and Site Management Plan (SMP), and issued a Certificate of Completion (COC) to the Volunteer on December 28, 2017.

The purpose of this PRR is to document the site management activities associated with the Site's ECs/ICs and to certify that the controls have been implemented in accordance with the SMP.

In summary, the remedy remains effective and protective of human health and the environment with continued implementation of the SMP. A site cover inspection at OU-2, and annual groundwater sampling at OU-2 and OU-3, were performed to document Site conditions. As documented and certified herein, the Volunteer was fully compliant with the SMP for the reporting period from April 28, 2019 through April 28, 2020. The status of each of the remaining remedial program elements are summarized below.

Site Cover System

The permanent Site cover system over the consolidated landfill area at OU-2 was maintained in good condition to prevent contact with underlying soil and groundwater.

Groundwater Monitoring

Groundwater sampling results for OU-2 (VOCs, SVOCS, PCBs, pesticides, and metals) and OU-3 (metals) have shown that the remedy (i.e., soil source removal) has been effective in reducing contaminant concentrations in the remediation areas.

1.0 INTRODUCTION

This Periodic Review Report (PRR) was prepared for the Adelaar Site located in the Town of Thompson, New York (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with the Brownfield Cleanup Agreement (BCA) for Site #C353014, which was executed on August 19, 2015. A Site location map is provided as Figure 1.

EPR Concord II, LP entered into a Brownfield Cleanup Agreement (BCA) on August 19, 2015 with NYSDEC to remediate four separate areas or Operating Units (OUs) totaling approximately 12.5 acres within the Site. A figure showing the location of the Adelaar property, and the location of each OU, is provided as Figure 1. A Decision Document (DD) was prepared by NYSDEC at the start of the project to outline the approved remedy for each OU. The DD required that a Site Management Plan (SMP) be developed and implemented at OU-2 and OU-3. The boundaries of OU-2 and OU-3 are included on Figures 2A and 2B, respectively, and are more fully described in the metes and bounds site description that is part of the Environmental Easement in Appendix A of the SMP. The remedial excavation areas and site cap location OU-2 are shown on Figure 2A, and the remedial excavation area at OU-3 is shown on Figure B for reference. The remediation of OU-1B and OU-1C did not rely on the use of ECs and ICs and, therefore, are not subject to the SMP.

After completion of the remedial work, some contamination was left at OU-2 and OU-3, which is hereafter referred to as "remaining contamination." Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to NYSDEC, and recorded with the Sullivan County Clerk, requires compliance with the SMP and all ECs and ICs placed on the parcel areas included within the borders of OU-2 and OU-3.

A Final Engineering Report (FER) detailing Site remedial activities was submitted to and approved by NYSDEC, which resulted in the issuance of a Certificate of Completion (COC) on December 28, 2017. Ongoing Site management activities are being performed in accordance with the NYSDEC-approved December 2017 SMP. The SMP provides detailed descriptions of all procedures required to manage known and potential residual contamination. Activities conducted at the Site under the SMP during this reporting period have included:

- Annual monitoring well gauging and groundwater sampling
- Site Cover/Site Cap Inspection

The purpose of this PRR is to document the Site management activities associated with the Site's Engineering and Institutional Controls and to certify that the controls have been implemented in accordance with the SMP. The reporting period on the IC/EC Certification form is from April 28, 2019 to April 28, 2020, and constitutes the second reporting year since receiving the COC.

2.0 SITE MANAGEMENT REQUIREMENTS

2.1 Introduction

For additional details related to the nature and extent of contamination and the remedial cleanup, please refer to the appropriate sections of the FER and SMP. The site management requirements for evaluating the performance and effectiveness of the remedy at the Site, the site cover system, and all affected Site media are summarized in Table T1 below (referenced from the December 2017 SMP) with an indication of what was completed this reporting period (first reporting year since receipt of the COC).

Table T1
Monitoring/Inspection Requirement Summary

Monitoring Program	Frequency*	Purpose	Analysis	Completed this Period?
Site Cover System	Annually. First inspection no more than 18 months after COC, then at least annually thereafter.	Site Conditions at OU-2 and OU-3, and Cover System Integrity at OU-2	Visual Inspection of Conditions	**Yes**
Groundwater Monitoring and Sampling at OU-2 and OU-3	Annually. First inspection no more than 18 months after COC, then at least annually thereafter.	Groundwater remediation performance at OU-2 and OU-3	OU-2: VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020, respectively OU-3: Metals by EPA Method 6020	**Yes**

Notes: *The frequency of events was conducted as specified in the SMP.
COC – Certificate of Completion; VOCs – Volatile Organic Compounds; SVOCs – Semivolatile Organic Compounds; PID – Photoionization Detector

2.2 Monitoring Requirements

This section describes the measures completed to satisfy the monitoring requirements of the SMP. The results of the Site monitoring program are described in Section 3.0.

2.2.1 OU2 Site Cover System

Exposure to landfill materials within the consolidated landfill area on the eastern side of the Site is prevented by an engineered site cover system made up of a 12-inch soil cap with an underlying demarcation layer that met the specific cleanup objectives.

The site cover system continues to remain intact 24 hours a day, 7 days a week, for 365 days a year. Disturbance of the site cover system or EC components is prohibited by the Environmental Easement. In the unlikely event of an unanticipated accidental or required disturbance of the site cover system, the response procedure is outlined in Section 4.3 of the SMP. Annual monitoring of the site cover system is required by the SMP, and

monitoring of the site cover system will continue to be maintained on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity.

AKRF inspected the site cover during a site visit on December 30, 2019. The inspection consisted of observing the site conditions and associated soil cap at OU2. The location and details of the site cover system as maintained over the course of this reporting period is shown on Figure 2A. The landscaped and soil areas were inspected for erosion and signs of excavation. Results of the site cover system inspection are summarized in Section 3.1 of this PRR.

2.2.2 Groundwater Monitoring and Sampling

Groundwater monitoring is required on an annual basis after issuance of the COC to assess the performance of the remedy. Groundwater monitoring was performed on December 30, 2019. The sampling locations and analytical parameters for each OU are summarized in Table T2.

Table T2
Groundwater Monitoring and Sampling Plan

Location (OU)	Monitoring Well ID	Analytes
OU2	OU2-MW1	VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020
OU2	OU2-MW15	VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020
OU2	OU2-MW32	VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020
OU3	OU3-MW2	Metals by EPA Method 6020
OU3	OU3-MW4	Metals by EPA Method 6020
OU3	OU3-MW14	Metals by EPA Method 6020
OU3	OU3-MW18	Metals by EPA Method 6020

2.3 Monitoring Reporting Requirements

The SMP requirement for reporting to NYSDEC includes an annual PRR. The reporting requirements are maintained until the termination of the Environmental Easement. This PRR fulfills the annual reporting requirements for the April 28, 2019 to April 28, 2020 monitoring period.

3.0 SITE MANAGEMENT MONITORING AND INSPECTION RESULTS

The site management monitoring inspections completed during this reporting period are summarized in the following sections.

3.1 OU2 Site Cover System

The soil cap at OU-2 was found to be intact, with no observable signs of damage, excavation, or erosion that would affect the integrity and purpose of the site cover. The vegetative cover, planted in 2017, has fully taken root and covers the site cap area. No additional corrective actions were recommended following the completion of this reporting period. A copy of the Site Inspection form is included in Appendix A.

3.2 Groundwater Sampling Observations and Analytical Results

Groundwater sampling logs documenting the general chemistry parameters collected during low flow sampling are included in Appendix A. Groundwater analytical results generated during the annual sampling event are included as Tables 1 to 4. A summary of recent laboratory results are shown on Figure 2A for OU-2 and Figure 2B for OU-3. The groundwater analytical report and the Data Usability Summary Report (DUSR) are provided in Appendix B. The DUSR confirmed that the laboratory analyses were completed in accordance with the method requirements and the data can be relied upon to draw conclusions related to the objectives of this PRR.

3.2.1 OU2 Groundwater Analytical Results

VOCs

The analytical results for VOCs are included in Table 1.

OU2-MW-1

1,3,5-Trimethylbenzene (TMB), 1,2,4-TMB, ethylbenzene, toluene, n-propylbenzene, sec-butylbenzene, n-butylbenzene, and total xylenes were detected at concentrations ranging from an estimated 0.61 micrograms per liter (µg/l) of toluene to 47 µg/l of 1,2,4-TMB. The concentration of 1,2,4-TMB (47 µg/l), ethylbenzene (6.5 µg/l), n-propylbenzene (15 µg/l), and n-butylbenzene (7.9 µg/l) were detected in excess of the NYSDEC GA Ambient Water Quality Standard (AWQS) of 5 µg/l. The remaining VOC detections were below the GA AWQS.

OUW-MW15

No VOCs were detected in OU-2-MW-15.

OU2-MW-32

Acetone and methyl tert-butyl ether (MTBE) were detected at concentrations of 54 µg/l and 1.5 µg/l, respectively. Neither detection was above the GA AWQS standard for groundwater. Acetone, which is used by the laboratory as part of the analysis, is a typical laboratory contaminant and is not considered to be associated with the Site.

SVOCs

The analytical results for SVOCs are summarized in Table 2. SVOCs were not detected in any of the OU2 monitoring well samples.

PCBs/Pesticides

PCB and pesticide results are summarized in Table 3. PCBs and pesticides were not detected in any of the OU2 monitoring well samples.

Metals

The analytical results for metals are summarized in Table 4.

OU2-MW1

Manganese was detected at a concentration of at 3,130 µg/l, which exceeds its GA AWQS of 300 µg/l. Arsenic, barium, copper, and lead were detected in the sample at concentrations ranging from 1.9 µg/l (lead) to 236 µg/l (barium), which are below their applicable GA AWQS.

OU2-MW15

Manganese was detected at a concentration of 1,150 µg/l, which exceeds its GA AWQS of 300 µg/l. Barium and copper were also detected in the sample at concentrations ranging from an estimated 3.6 µg/l (copper) to 177 µg/l (barium). Each of these detections were below the GA AWQS.

OU2-MW33 (Duplicate of OU-2-MW-15)

Manganese was detected at a concentration of 1,130 µg/l, which exceeds its GA AWQS of 300 µg/l. Barium and copper were also detected in the sample at concentrations ranging from an estimated 3.8 µg/l (copper) to 194 µg/l (barium). Each of these detections were below the GA AWQS. The laboratory results for this duplicate sample were consistent with the results for OU2-MW-15 and supports the usability of the laboratory results.

OU2-MW32

Manganese was detected at a concentration of 4,630 µg/l, which exceeds its GA AWQS of 300 µg/l. Arsenic, barium, chromium, copper, lead, and nickel were detected in this sample at concentrations ranging from 4 µg/l of chromium to 427 µg/l of barium, which were below the GA AWQS.

3.2.2 OU3 Groundwater Analytical Results

The metals results for OU-3 are summarized in Table 4.

OU3-MW2

Manganese (17,400 µg/l) and lead (53 µg/l) were detected at concentrations that exceeded their GA AWQS of 300 µg/l and 50 µg/l, respectively. Arsenic, barium, beryllium, chromium, copper, nickel, and zinc were also detected in the sample at concentrations ranging from 2.5 µg/l (beryllium) to 802 µg/l (barium), all of which were below the GA AWQS.

OU3-MW4

Arsenic (52.6 µg/l), manganese (7,730 µg/l) and lead (41.1 µg/l) were detected at concentrations that exceeded their respective GA AWQS. Barium, chromium, copper, nickel, and zinc were detected below their respective GA AWQS at concentrations ranging from an estimated 5.1 µg/l (copper) to 1,510 µg/l (zinc).

OU3-MW14

Manganese was detected above its GA AWQS at a concentration of 14,300 µg/l. Arsenic, barium, copper, lead, nickel, and zinc were also detected in the sample at concentrations between an estimated 2.5 µg/l (lead) to 297 µg/l (barium), with each of these detections below their respective GA AWQS.

OU3-MW181

Manganese was detected above its GA AWQS at a concentration of 65 µg/l. Arsenic, barium, beryllium, chromium, copper, lead, nickel, and zinc were also detected in the sample at

concentrations ranging from an estimated 0.32 µg/l (beryllium) to 126 µg/l (barium), with each of these detections below their respective GA AWQS.

3.2.3 Groundwater Summary

OU-2

The OU2 contamination outlined in the NYSDEC Decision Document was identified as VOCs, pesticides, PCBs, and metals associated with the golf maintenance building on the northern side of the Site, and VOCs, PCBs, pesticides and metals associated with the landfill area on the southern side of the Site. Groundwater laboratory results indicate that the BCP remedy has been effective and protective of human health and the environment. As documented in the FER, and prior to the remedial efforts, the area around monitoring well OU2-MW-1 included grossly contaminated soil and free phase petroleum. The groundwater sampling results for OU2-MW-1 confirmed that only four of the seven VOCs detected (1,2,4-TMB, ethylbenzene, n-propylbenzene, and n-propylbenzene) were present at concentrations just above their respective GA AWQS. These results remain consistent with the 2018 sampling event, and are a significant improvement over the pre-remediation conditions. SVOCs, PCBs, and pesticides were not detected in any of the groundwater samples. Manganese was detected in each well at generally consistent concentrations and may be a naturally occurring condition associated with sediment entrained in the sample. This and the remaining metals results were consistent with previous data and do not indicate any hot spots or continuing sources of contamination.

OU-3

Manganese was detected in each well at concentrations that exceeded the GA AWQS. Only two other metals, including lead in two wells (OU-3-MW-2 and OU-3-MW-4) and arsenic in one well (OU-3-MW-4), had concentrations above the GA AWQS. These detections, and the manganese exceedances that appear to be naturally occurring, are consistent with historical data and do not indicate any hot spots or continuing sources of contamination. These results indicate that the remedial efforts were effective and the remaining contamination is not a continuing source for groundwater contamination.

3.3 Health and Safety Monitoring

The Health and Safety Plan (HASP), a component of the SMP, includes requirements for personnel training, protocols for work zone air monitoring and community air monitoring, designated personal protection equipment, and decontamination procedures. The HASP also includes a Community Air Monitoring Plan (CAMP), which established protocols for VOC and particulate air monitoring to be conducted at the Site perimeter if work zone perimeter concentrations approach the applicable community action levels.

Because there was no soil disturbance or breaches of the site cover system during the reporting period, no air monitoring was performed. During groundwater monitoring, field personnel followed the HASP protocol using modified Level D personal protective equipment (PPE), including nitrile gloves and safety glasses.

4.0 IC/EC CERTIFICATION

A Site-wide inspection was conducted on December 30, 2018 as specified in the SMP, to ensure that all aspects of the remedy were in-place and effective. Based on the Site-wide inspection and the data evaluation summarized in this report, the following certification is made for the Site, as documented in the IC-EC Certification form provided in Appendix C:

a) The institutional control and engineering controls employed at this Site are unchanged from the date the control was put in place, or last approved by the New York State Department of

Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER), with the exceptions cited in this Periodic Review Report;

b) Nothing has occurred that would impair the ability of such control to protect public health and the environment;
c) Nothing has occurred the would constitute a violation or failure to comply with any Site Management Plan for this control; and
d) Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.

5.0 SITE MANAGEMENT SCHEDULE

The site management requirements identified in the SMP for the April 28, 2020 through April 28, 2021 is outlined in Table T3.

Table T3
Future Monitoring/Inspection Plan

Monitoring Program	Next Scheduled Event	Frequency	Purpose	Analysis
Site Cover System	October 2020	Annually	Site Conditions at OU-2 and OU-3, and Cover System Integrity at OU-2	Visual Inspection of Conditions
Groundwater Monitoring and Sampling	October 2020	Annually	Groundwater	OU-2: VOCs, SVOCs, PCBs, Pesticides, and Metals by EPA Methods 8260, 8270, 8082, 8081, and 6020, respectively OU-3: Metals by EPA Method 6020

5.1 Groundwater Monitoring

In accordance with the existing site management schedule, the April 28, 2020 through April 28, 2021 groundwater sampling frequency will remain as described in the SMP.

5.2 Modification to SMP

This Section includes a request to NYSDEC to reduce the number of monitoring wells that are sampled at each OU. The monitoring results over the last two years have been consistent and have not indicated any hot spots or ongoing sources of contamination. The well reduction request is as follows:

OU-2

Since VOCs, SVOCs, PCBs, and pesticides have not been detected in groundwater samples collected from OU2-MW-15 and OU2-MW-32 over the last two sampling periods, it is requested that OU2-MW-15 and OU2-MW-32 be removed from the groundwater monitoring and sampling plan for the April 28, 2020 through April 28, 2021 sampling period. OU2-MW-1 has been the only well where petroleum compounds were detected, and will continue to be sampled as indicated in the SMP.

OU-3

The sampling results for metals concentrations at OU3 have indicated that hot spots are not present and the ongoing release of contamination is not occurring. Since OU3-MW-2 has consistently been the well with the highest metals concentrations, it is requested that OU3-MW-2 continue to be sampled as a barometer of Site conditions, with OU3-MW-4, OU3-MW-14 and OU3-MW-18 being removed from the groundwater monitoring and sampling plan.

If this request, or any other request to change the groundwater monitoring and sampling plan, is approved, the SMP will be modified appropriately to reflect the requirements of the April 28, 2020 through April 28, 2021 sampling period. If this request is not approved by NYSDEC and NYSDOH, modifications to the SMP are not required.

TABLES

Table 1
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

Client ID Lab Sample ID Date Sampled Analyte	NYSDEC Class GA AWQSGV µg/L	OU-2-MW1-112018 460-169852-3 11/20/2018	OU-2-MW15-112018 460-169852-4 11/20/2018	OU-2-MW32-112018 460-169852-5 11/20/2018	OU-2-MW33-112018 460-169852-6 11/20/2018	OU-2-MW-1-123019 460-200012-1 12/30/2019	OU-2-MW-15-123019 460-200012-2 12/30/2019
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	33	1 U	1 U	1 U	47	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	1.6	1 U	1 U	1 U	1.6	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	50	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	8.2	5.8	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	7	1 U	1 U	1 U	6.5	1 U
Methyl tert-butyl ether	10	1 U	1 U	2.6	2.5	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	4	1 U	1 U	1 U	7.9	1 U
N-Propylbenzene	5	10	1 U	1 U	1 U	15	1 U
sec-Butylbenzene	5	2.3	1 U	1 U	1 U	3.5	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	0.57 J	1 U	1 U	1 U	0.61 J	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	3.4	2 U	2 U	2 U	2.5	2 U
Total Conc	NS	61.87	0	10.8	8.3	84.61	0

Table 1
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

Client ID Lab Sample ID Date Sampled Analyte	NYSDEC Class GA AWQSGV µg/L	OU-2-MW-32-123019 460-200012-3 12/30/2019	OU-2-MW-33-123019 460-200012-4 12/30/2019	Field Blank-112018 460-169852-2 11/20/2018	Trip Blank-112018 460-169852-1 11/20/2018	TB-123119 460-200012-8 12/31/2019	FB-123119 460-200012-9 12/31/2019
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone (MEK)	50	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	54	5 U	7.9	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10	1.5	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NS	2 U	2 U	2 U	2 U	2 U	2 U
Total Conc	NS	55.5	0	7.9	0	0	0

Table 2
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW15-112018	OU-2-MW32-112018	OU-2-MW33-112018	OU-2-MW-1-123019
Lab Sample ID	Class GA	460-169852-3	460-169852-4	460-169852-5	460-169852-6	460-200012-1
Date Sampled	AWQSGV	11/20/2018	11/20/2018	11/20/2018	11/20/2018	12/30/2019
Analyte	µg/L					
2-Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
3 & 4 Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U
Benzo[a]anthracene	0.002	1 U	1 U	1 U	1 U	1 U
Benzo[a]pyrene	ND	1 U	1 U	1 U	1 U	1 U
Benzo[b]fluoranthene	0.002	2 U	2 U	2 U	2 U	2 U
Benzo[g,h,i]perylene	NS	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	1 U	1 U	1 U	1 U	1 U
Chrysene	0.002	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene	NS	1 U	1 UJ	1 UJ	1 UJ	1 U
Dibenzofuran	NS	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U	1 U	1 U
Indeno[1,2,3-cd]pyrene	0.002	2 U	2 UJ	2 UJ	2 UJ	2 U
Naphthalene	10	3.2 J	10 U	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U
Phenol	NS	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U
Total Conc	NS	3.2	0	0	0	0

Table 2
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Semivolatile Organic Compounds (SVOCs)

Client ID Lab Sample ID Date Sampled Analyte	NYSDEC Class GA AWQSGV µg/L	OU-2-MW-15-123019 460-200012-2 12/30/2019	OU-2-MW-32-123019 460-200012-3 12/30/2019	OU-2-MW-33-123019 460-200012-4 12/30/2019	Field Blank-112018 460-169852-2 11/20/2018	FB-123119 460-200012-9 12/31/2019
2-Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
3 & 4 Methylphenol	NS	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U
Benzo[a]anthracene	0.002	1 U	1 U	1 U	1 U	1 U
Benzo[a]pyrene	ND	1 U	1 U	1 U	1 U	1 U
Benzo[b]fluoranthene	0.002	2 U	2 U	2 U	2 U	2 U
Benzo[g,h,i]perylene	NS	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	1 U	1 U	1 U	1 U	1 U
Chrysene	0.002	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene	NS	1 U	1 U	1 U	1 UJ	1 U
Dibenzofuran	NS	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1 U	1 U	1 U	1 U	1 U
Indeno[1,2,3-cd]pyrene	0.002	2 U	2 U	2 U	2 UJ	2 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U
Phenol	NS	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U
Total Conc	NS	0	0	0	0	0

Table 3
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Polychlorinated Biphenyls (PCBs) and Pesticides

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW15-112018	OU-2-MW32-112018	OU-2-MW33-112018	OU-2-MW-1-123019
Lab Sample ID	Class GA	460-169852-3	460-169852-4	460-169852-5	460-169852-6	460-200012-1
Date Sampled	AWQSGV	11/20/2018	11/20/2018	11/20/2018	11/20/2018	12/30/2019
PCBs	µg/L					
Aroclor 1016	NS	0.4 U	0.4 UJ	0.4 U	0.4 U	0.4 U
Aroclor 1221	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1232	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1242	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1248	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1254	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1260	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor-1262	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1268	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Polychlorinated biphenyls, Total	0.09	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U

Pesticides	µg/L					
4,4'-DDD	0.3	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDE	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDT	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane (technical)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
delta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NS	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U
Endrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde	5	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U
Endrin ketone	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 3
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Polychlorinated Biphenyls (PCBs) and Pesticides

Client ID	NYSDEC	OU-2-MW-15-123019	OU-2-MW-32-123019	OU-2-MW-33-123019	Field Blank-112018	FB-123119
Lab Sample ID	Class GA	460-200012-2	460-200012-3	460-200012-4	460-169852-2	460-200012-9
Date Sampled	AWQSGV	12/30/2019	12/30/2019	12/30/2019	11/20/2018	12/31/2019
PCBs	µg/L					
Aroclor 1016	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1221	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1232	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1242	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1248	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1254	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1260	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor-1262	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor 1268	NS	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Polychlorinated biphenyls, Total	0.09	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Pesticides	µg/L					
4,4'-DDD	0.3	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDE	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4'-DDT	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane (technical)	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
delta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin	ND	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde	5	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Endrin ketone	5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Toxaphene	0.06	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 4
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU-2-MW1-112018	OU-2-MW15-112018	OU-2-MW32-112018	OU-2-MW33-112018	OU-3-MW2-112118	OU-3-MW4-112118
Lab Sample ID	Class GA	460-169852-3	460-169852-4	460-169852-5	460-169852-6	460-169881-1	460-169881-2
Date Sampled	AWQSGV	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/21/2018	11/21/2018
Dilution		1/2 †	1/2 †	1/2 †	1/2 †	1/2/10 †	1/2 †
Analyte	µg/L						
Arsenic	25	2.3	8.2	64.2	63.8	9	41
Barium	1,000	170	394	795	775	509	308
Beryllium	3	0.8 U	0.35 J	1.1	1.4	1.3	0.27 J
Cadmium	5	2 U	2 U	2 U	2 U	2 U	2 U
Chromium	50	4 U	6.8	18.3	21.3	34.3	4.4
Copper	200	3.6 J	4.7	47.7	49.2	51.6	17.8
Lead	25	3.3	5.9	62.4	59.3	24.9	39.5
Manganese	300	2,120	6,390	4,750	4,360	19,000	4,860
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	3.5 J	9.9	45.7	42.8	55.6	16.9
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	2,000	16 U	37.3	115	118	114	658

Table 4
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU-3-MW14-112118	OU-3-MW18-112118	OU-2-MW-1-123019	OU-2-MW-15-123019	OU-2-MW-32-123019	OU-2-MW-33-123019
Lab Sample ID	Class GA	460-169881-3	460-169881-4	460-200012-1	460-200012-2	460-200012-3	460-200012-4
Date Sampled	AWQSGV	11/21/2018	11/21/2018	12/30/2019	12/30/2019	12/30/2019	12/30/2019
Dilution		1/2 †	1/2 †	1/2 †	1/2 †	1/2 †	1/2 †
Analyte	µg/L						
Arsenic	25	4.5	2.5	3.2	2 U	21.7	0.78 J
Barium	1,000	337	166	236	177	427	194
Beryllium	3	0.8 U	0.34 J	0.8 U	0.8 U	0.8 U	0.8 U
Cadmium	5	2 U	2 U	2 U	2 U	2 U	2 U
Chromium	50	4 U	4.3	4 U	4 U	4	4 U
Copper	200	4 U	8.3	4.1	3.6 J	10.7	3.8 J
Lead	25	1.1 J	12.2	1.9	1.2 U	12	1.2 U
Manganese	300	8,760	363	3,130	1,150	4,630	1,130
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	4.6	8.2	4 U	4 U	4.4	4 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	2,000	15.9 J	22.2	16 U	16 U	16 U	16 U

Table 4
Adelaar
Thompson, NY
Periodic Review Report
Groundwater Analytical Results - Metals

Client ID	NYSDEC	OU-3-MW-2-123119	OU-3-MW-4-123119	OU-3-MW-14-123119	OU-3-MW-18-010320	Field Blank-112018	FB-123119
Lab Sample ID	Class GA	460-200012-5	460-200012-6	460-200012-7	460-200140-1	460-169852-2	460-200012-9
Date Sampled	AWQSGV	12/31/2019	12/31/2019	12/31/2019	01/03/2020	11/20/2018	12/31/2019
Dilution		1/2/10 †	1/2 †	1/2/10 †	1/2 †	1/2 †	1/2 †
Analyte	µg/L						
Arsenic	25	7.2	52.6	20.6	2.8	2 U	2 U
Barium	1,000	802	278	297	126	4 U	4 U
Beryllium	3	2.5	0.8 U	0.8 U	0.32 J	0.8 U	0.8 U
Cadmium	5	2 U	2 U	2 U	2 U	2 U	2 U
Chromium	50	34.9	5.1	4 U	5.9	4 U	4 U
Copper	200	74.8	20.3	4.7	15	4 U	4 U
Lead	25	53	41.1	2.5	11	1.2 U	1.2 U
Manganese	300	17,400	7,730	14,300	651	8 U	8 U
Mercury	0.7	0.2 U	0.22	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	29.9	17.3	5.6	8.8	4 U	4 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	2,000	91.2	1,510	21.8	21.9	16 U	16 U

Tables 1-4
Adelaar
Thompson, NY
Periodic Review Report
Notes

DEFINITIONS

J : The concentration given is an estimated value.

NS : No standard.

ND : The standard is a non-detectable concentration by the approved analytical method.

U : The analyte was not detected at the indicated concentration.

UJ : The analyte was analyzed for but was not detected.

*** :** LCS or LCSD is outside acceptable limits.

† : Dilution factor varies.

µg/L : micrograms per Liter = parts per billion (ppb)

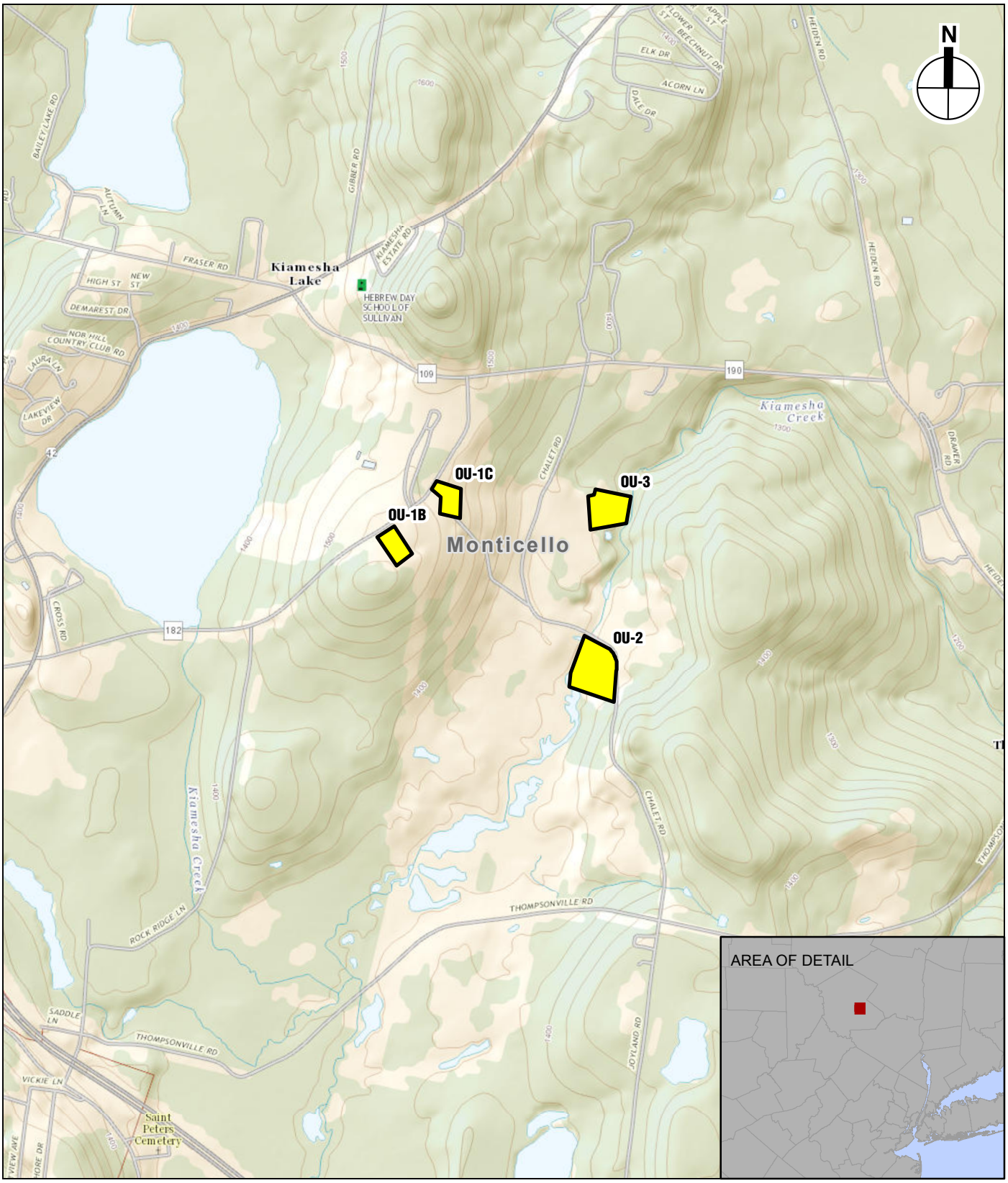
STANDARDS

NYSDEC Class GA AWQSGVs : New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Exceedances of NYSDEC Class GA AWQSGVs are highlighted in gray shading.

FIGURES

3/10/2015



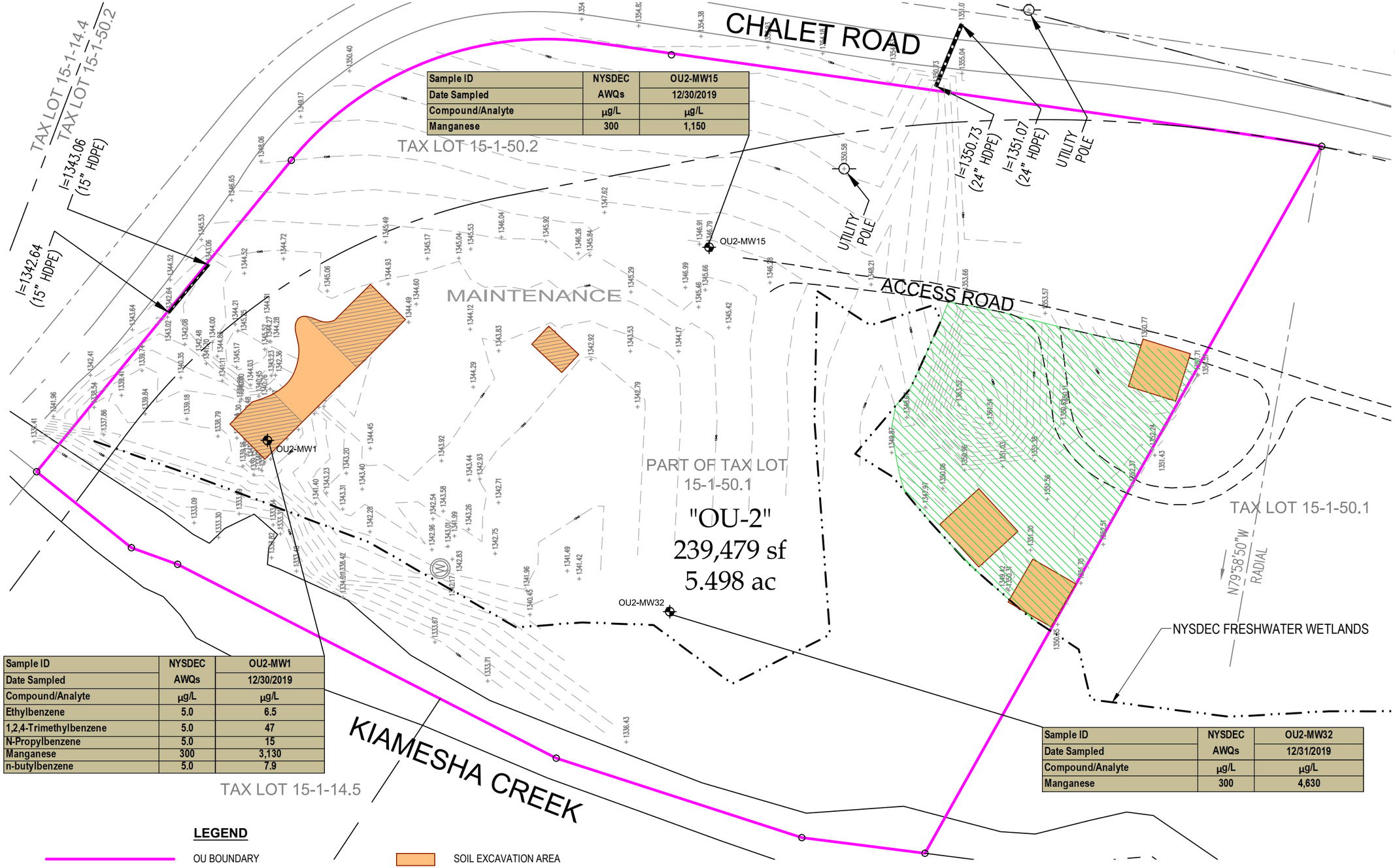
Operational Unit

0 2,000 FEET

Approximate coordinates of Operational Units:
OU-1B: 41° 40’ 28" N, 74° 39’ 22" W
OU-1C: 41° 40’ 34" N, 74° 39’ 14" W
OU-2: 41° 40’ 14" N, 74° 38’ 51" W
OU-3: 41° 40’ 33" N, 74° 38’ 49" W

ADELAAR
NYSDEC Site No. C353014

USGS 7.5 Minute Topographic Map
Monticello Quad
Figure 1



AKRF
440 Park Avenue South, New York, NY 10016

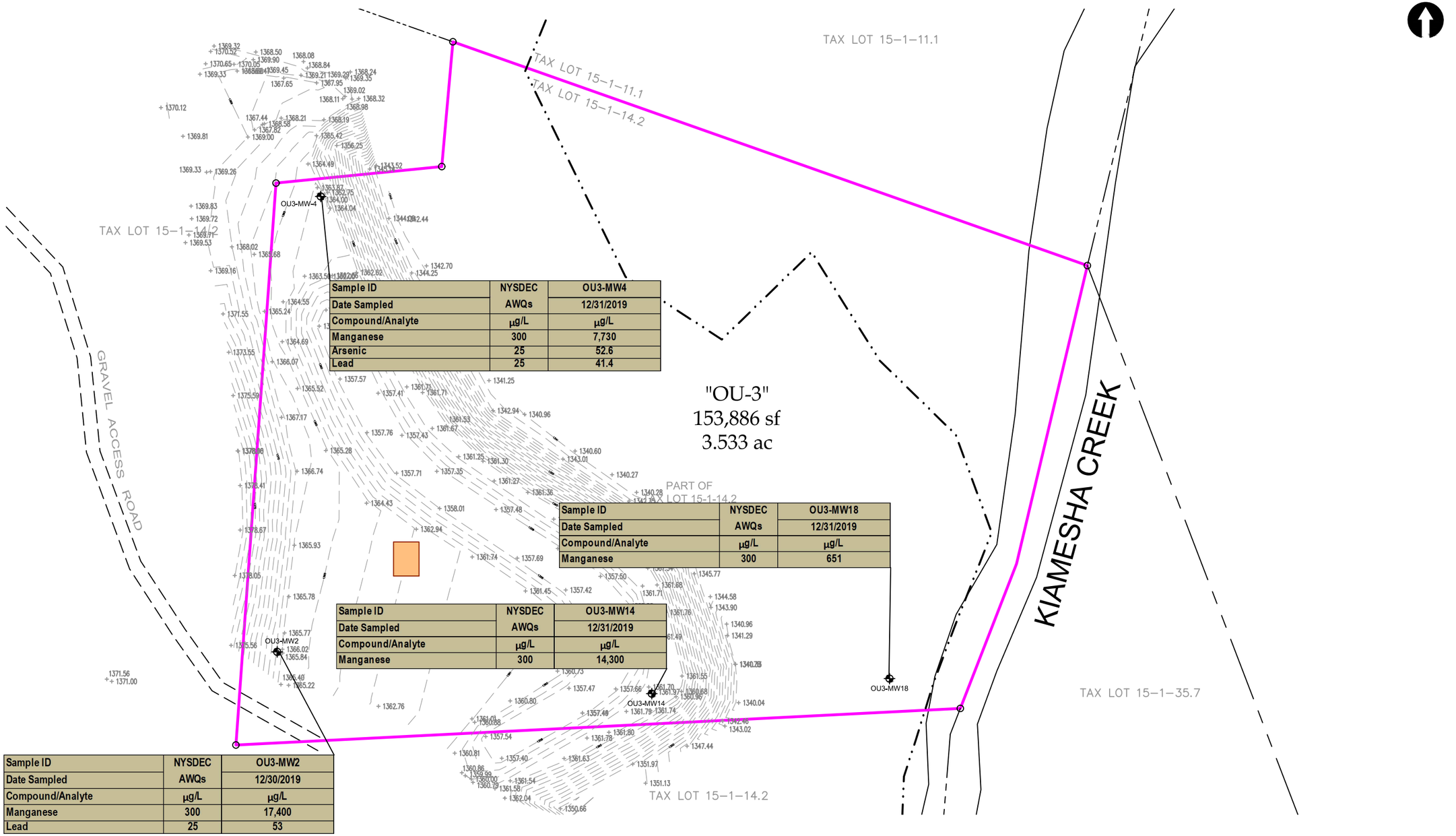
Adelaar Site
Town of Thompson, New York

OU-2 SITE COVER SYSTEM AND POST-REMEDIATION GROUNDWATER LABORATORY RESULTS

DATE
5/27/2020

PROJECT NO.
40376

FIGURE
2A



Sample ID	NYSDEC	OU3-MW4
Date Sampled	AWQs	12/31/2019
Compound/Analyte	µg/L	µg/L
Manganese	300	7,730
Arsenic	25	52.6
Lead	25	41.4

Sample ID	NYSDEC	OU3-MW18
Date Sampled	AWQs	12/31/2019
Compound/Analyte	µg/L	µg/L
Manganese	300	651

Sample ID	NYSDEC	OU3-MW14
Date Sampled	AWQs	12/31/2019
Compound/Analyte	µg/L	µg/L
Manganese	300	14,300

Sample ID	NYSDEC	OU3-MW2
Date Sampled	AWQs	12/30/2019
Compound/Analyte	µg/L	µg/L
Manganese	300	17,400
Lead	25	53

LEGEND

- OU BOUNDARY
- TAX PARCEL BOUNDARY
- NYSDEC FRESHWATER WETLANDS
- MONITORING WELL LOCATION
- SOIL EXCAVATION AREA

NYSDEC Class GA Ambient Standard:
New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. (AWQS)

(µg/L) - micrograms per Liter = parts per billion (ppb)

0' 30 60 120
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

Adelaar Site
Town of Thompson, New York

OU-3 POST-REMEDIATION GROUNDWATER LABORATORY RESULTS

DATE
5/27/2020

PROJECT NO.
40376

FIGURE
2B

APPENDIX A

ADELAAR
OU-2 AND OU3 SITE INSPECTION FORM
TOWN OF THOMPSON, NEW YORK

Inspector Name: Steve Schmid	**Date:** 12/30/19
Reviewed By:	**Date:**

OU-2 Soil Cap over Landfill Area

Site Cap - Soil Cover	Condition Observed			Comments
	Good	Maintenance Required [1/]	Contingency Action Required [2/]	
Subsidence/Settling	X			
Erosion/ Soil Deposition	X			
Vegetative cover	X			winter veg dead but coverage ok
Seeps	X			
Ponding	X			

1/ - Contact the Adelaar Project Manager to coordinate maintenance activities. Document completed maintenance activities on this form.

2/ - Immediately contact the Adelaar and AKRF Project Manager for contingency requirements. Notifiy NYSDEC within 24 hours and refer to Site Management Plan for contingency requirements.

Emergency Contact Information

Name	Title	Contact Numbers
Marc Godick	AKRF Project Director	914-922-2356
Bryan Zieroff	AKRF Project Manager	914-922-2382
Paul Roggeman	Adelaar Project Manager	845-794-6060
Paul Turvey	EPR Concord II	816-472-1700

AKRF — Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OW-2, MW-32
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/30/19		**Sampling Time:** 1505	
LEL at surface: NA			
PID at surface: ND			
Total Depth: 13.92	ft. below top of casing	**Water Column (WC):** 8.88 feet	*= 0.163 * WC for 2" wells
Depth to Water: 5.04	ft. below top of casing	**Well Volume*:** 1.45 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND	ft. below top of casing	**Volume Purged:** ~3 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: /	ft. below top of casing	**Purging Device (pump type):** w/MP-50 QED sample pro 1.75L	
Approx. Pump Intake: ~ 9.5	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1415	5.00	150	6.87	0.673	7.46	5.27	13	234	
1420	5.00	150	6.97	0.681	5.02	5.04	37	161	
1425	5.00	150	7.02	0.687	4.17	4.69	44	109	No odor or sheen
1430	5.00	150	7.10	0.695	3.81	4.62	48	86.6	
1435	5.00	150	7.09	0.700	3.54	4.59	51	71.3	
1440	5.00	150	7.12	0.702	3.40	4.57	53	60.9	
1445	5.00	150	7.14	0.703	3.11	4.54	54	54.8	
1450	5.00	150	7.09	0.701	2.88	4.53	55	47.2	
1455	5.00	150	7.08	0.702	2.63	4.52	54	44.1	
1500	5.00	150	7.08	0.704	2.59	4.52	55	41.8	
Sampling									
1530	5.00	150	7.01	0.701	2.52	4.52	56	33.4	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOC, SVOC, PCB, Pesticide, Metals

AKRF

Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OU-2 MW-15
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/30/19		**Sampling Time:** 1055	
LEL at surface: NA			
PID at surface: ND			
Total Depth: 9.60	ft. below top of casing	**Water Column (WC):** 6.48 feet	*= 0.163 * WC for 2" wells
Depth to Water: 3.12	ft. below top of casing	**Well Volume*:** 1.06 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND	ft. below top of casing	**Volume Purged:** ~3 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: /	ft. below top of casing	**Purging Device (pump type):** w/ MP-50 QED Sample Pro 1.75	
Approx. Pump Intake: ~7	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1000	3.09	150	4.58	0.464	7.76	5.53	96	576	no odor or sheen dup MW-33 collected @ 1055
1005	3.09	150	4.50	0.443	6.51	5.33	113	376	
1010	3.09	150	4.40	0.428	5.97	5.19	125	219	
1015	3.09	150	4.34	0.417	5.68	5.15	132	160	
1020	3.09	150	4.29	0.410	5.35	5.13	136	108	
1025	3.09	150	4.26	0.407	5.07	5.10	137	71.3	
1030	3.09	150	4.24	0.406	4.74	5.03	138	59.6	
1035	3.09	150	4.22	0.405	4.58	5.00	138	40.7	
1040	3.09	150	4.27	0.407	4.32	4.95	135	37.4	
1045	3.09	150	4.28	0.406	4.19	4.93	133	34.9	
1050	3.09	150	4.30	0.408	4.05	4.90	132	31.1	
Sampling		~~150~~ ST PURGE							
1120	3.09	150	4.26	0.403	3.84	4.85	135	21.7	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOC, SVOC, PCB, Pesticides, Metals

AKRF — Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OU-2 MW-1
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/30/19		**Sampling Time:** 1230	
LEL at surface: NA			
PID at surface: 1.3			
Total Depth: 11.93	ft. below top of casing	**Water Column (WC):** 3.03 feet	*= 0.163 * WC for 2" wells
Depth to Water: 8.90	ft. below top of casing	**Well Volume*:** 0.49 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ~~11.93~~ SS 12/30/19 ND	ft. below top of casing	**Volume Purged:** ~3 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):** w/ MP50 QED sample Pro 1.752	
Approx. Pump Intake: ~ 10.5	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1200	8.89	150	6.12	0.319	5.65	5.10	35	31.5	no sheen
1205	8.89	150	6.69	0.324	4.17	4.89	30	22.6	
1210	8.89	150	6.87	0.331	3.39	4.62	25	9.3	
1215	8.89	150	6.92	0.336	2.84	4.49	22	0.0	
1220	8.89	150	6.96	0.341	2.75	4.47	22	0.0	MS/MSD collected @
1225	8.89	150	7.00	0.357	2.69	4.46	22	0.0	
Sampling 1315	8.89	150	7.18	0.373	2.11	4.44	22	0.0	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

AKRF — Well Sampling Log

Job No: 40376	**Client:** Concord/Adelaar/EPR	**Well No:** OU-3 MW-18	
Project Location: Concord/Adelaar/EPR	**Sampled By:** SS		
Date: 1/3/20	**Sampling Time:** 1200		
LEL at surface: NA			
PID at surface: ND			
Total Depth: 16.76 ft. below top of casing	**Water Column (WC):** 9.96 feet	*= 0.163 * WC for 2" wells	
Depth to Water: 6.80 ft. below top of casing	**Well Volume*:** 1.62 gallons	*= 0.653 * WC for 4" wells	
Depth to Product: ND ft. below top of casing	**Volume Purged:** ~5 gallons	*= 1.469 * WC for 6" wells	
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min	
Depth to bottom of screen: / ft. below top of casing	**Purging Device (pump type):** w/ MP50 QED Sample Pro 1.75		
Approx. Pump Intake: ~12 ft. below top of casing			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1605	6.78	150	5.87	0.303	11.52	6.92	29	High	No odor or sheen High Silt
1610	6.78	150	7.48	0.283	4.90	5.44	77	577	
1615	6.78	150	7.23	0.280	4.69	5.39	161	417	
1620	6.78	150	7.12	0.279	4.54	5.33	114	424	
1625	6.78	150	7.09	0.278	4.47	5.30	120	411	
1630	6.78	150	7.10	0.277	4.42	5.28	125	396	
1635	6.78	150	7.08	0.277	4.39	5.27	131	403	
1640	6.78	150	7.04	0.277	4.38	5.26	134	377	
1645	6.78	150	7.05	0.276	4.36	5.25	138	370	
1650	6.78	150	6.99	0.276	4.35	5.25	140	356	
1655	6.78	150	7.04	0.276	4.33	5.25	141	375	
1100	6.78	150	7.06	0.276	4.30	5.24	143	349	
1105	6.78	150	7.10	0.277	4.32	5.24	143	344	
1110	6.78	150	7.07	0.276	4.31	5.23	144	352	
1115	6.78	150	7.13	0.276	4.33	5.23	145	339	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: Metals

AKRF

Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OW-3 MW18 cont.
Project Location: Concord/Adelaar/EPR		**Sampled By:**	
Date:		**Sampling Time:**	
LEL at surface:			
PID at surface:			
Total Depth:	ft. below top of casing	**Water Column (WC):** feet	*= 0.163 * WC for 2" wells
Depth to Water:	ft. below top of casing	**Well Volume*:** gallons	*= 0.653 * WC for 4" wells
Depth to Product:	ft. below top of casing	**Volume Purged:** gallons	*= 1.469 * WC for 6" wells
Depth to top of screen:	ft. below top of casing	**Well Diam.:** inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1120	6.78	150	7.10	0.276	4.32	5.23	147	331	
1125	6.78	150	7.07	0.276	4.31	5.23	148	317	
1130	6.78	150	7.08	0.276	4.30	5.23	148	306	
1135	6.78	150	7.06	0.275	4.29	5.22	147	294	
1140	6.78	150	7.01	0.275	4.28	5.22	148	302	
1145	6.78	150	7.04	0.276	4.30	5.22	149	276	
1150	6.78	150	6.99	0.276	4.30	5.23	150	285	
1155	6.78	150	6.97	0.276	4.31	5.23	150	225	
~~Sampling~~	Sampling								
1210	6.78	150	6.94	0.276	4.36	5.23	150	213	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

AKRF — Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OW-7 / MW-14
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/31/19		**Sampling Time:** 1515	
LEL at surface: NA			
PID at surface: ND - no sheen			
Total Depth: 33.00	ft. below top of casing	**Water Column (WC):** 6.06 feet	*= 0.163 * WC for 2" wells
Depth to Water: 26.94	ft. below top of casing	**Well Volume*:** 0.98 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND	ft. below top of casing	**Volume Purged:** ~ 2 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: /	ft. below top of casing	**Purging Device (pump type):** w/MP-57 QED sample Pro 1.75L	
Approx. Pump Intake: ~ 30	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1430	26.94	150	7.21	0.441	4.34	6.74	64	121	
1435	26.94	150	6.99	0.430	3.47	6.60	59	104	
1440	26.94	150	6.93	0.425	2.96	6.52	51	92.6	NO sheen
1445	26.94	150	6.88	0.419	2.72	6.47	44	84.1	Slight solvent-like odor
1450	26.94	150	6.86	0.417	2.51	6.41	37	76.3	
1455	26.94	150	6.88	0.414	2.44	6.38	32	60.9	
1500	26.94	150	6.81	0.408	2.35	6.35	30	40.5	
1505	26.94	150	6.82	0.410	2.33	6.31	28	29.6	
1510	26.94	150	6.79	0.402	2.28	6.30	25	14.8	
Sampling									
1520	26.94	150	6.53	0.397	2.14	6.25	21	6.3	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: metals

89710

AKRF

Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OW-3 MW-4
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/31/19		**Sampling Time:** 955	
LEL at surface: NA			
PID at surface: ND			
Total Depth: 33.96	ft. below top of casing	**Water Column (WC):** 8.09 feet	*= 0.163 * WC for 2" wells
Depth to Water: 25.37	ft. below top of casing	**Well Volume*:** 1.32 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ~~33.46~~ SS 12/31/19 ND	ft. below top of casing	**Volume Purged:** ~2.5 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: /	ft. below top of casing	**Purging Device (pump type):** Peristaltic Pump	
Approx. Pump Intake: ~ 29	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
855	25.37	150	5.73	0.437	11.77	7.31	86	320	
900	25.37	150	6.07	0.412	7.02	7.16	96	286	
905	25.37	150	6.13	0.399	6.53	7.02	104	241	No odor or Sheen
910	25.37	150	6.15	0.391	6.01	6.88	110	209	
915	25.37	150	6.12	0.386	5.31	6.80	113	161	
920	25.37	150	6.18	0.384	4.74	6.75	117	111	
925	25.37	150	6.15	0.382	4.42	6.68	121	92.3	
930	25.37	150	6.20	0.382	4.30	6.61	123	75.7	
935	25.37	150	6.22	0.382	4.22	6.55	124	54.9	
940	25.37	150	6.24	0.383	4.16	6.49	125	48.2	
945	25.37	150	6.24	0.384	4.09	6.45	125	41.3	
950	25.37	150	6.25	0.385	4.01	6.42	126	34.6	
Sampling									
1000	25.37	150	6.37	0.381	3.88	6.39	128	22.8	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: Metals

AKRF

Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OU-3 MW-21
Project Location: Concord/Adelaar/EPR		**Sampled By:** SS	
Date: 12/31/19		**Sampling Time:** 1310	
LEL at surface: NA			
PID at surface: 109.8			
Total Depth: 35.43	ft. below top of casing	**Water Column (WC):** 4.8 feet	*= 0.163 * WC for 2" wells
Depth to Water: 30.63	ft. below top of casing	**Well Volume*:** 0.78 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND	ft. below top of casing	**Volume Purged:** ~5.00 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: /	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):** w/MP-50 QED sample Pro 1.75L	
Approx. Pump Intake: ~33	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1105	30.61	150	5.99	0.316	13.77	6.99	33	too high	high silt no odor or sheen
1110	30.61	150	6.13	0.327	12.16	6.72	56		
1115	30.61	150	6.20	0.333	11.41	6.60	79		
1120	30.61	150	6.24	0.339	9.76	6.47	87		
1125	30.61	150	6.27	0.344	9.31	6.42	100		
1130	30.61	150	6.30	0.350	9.00	6.31	117		
1135	30.61	150	6.29	0.357	8.48	6.22	124		
1140	30.61	150	6.27	0.361	8.16	6.16	128		
1145	30.61	150	6.29	0.364	7.92	6.12	131	838	
1150	30.61	150	6.32	0.369	7.80	6.09	133	761	
1155	30.61	150	6.37	0.377	7.66	6.07	135	793	
1200	30.61	150	6.34	0.380	7.51	6.05	136	722	
1205	30.61	150	6.34	0.385	7.30	6.04	138	679	
1210	30.61	150	6.38	0.392	7.22	6.03	139	664	
1215	30.61	150	6.36	0.399	7.11	6.03	140	675	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: Metals

AKRF

Well Sampling Log

Job No: 40376		**Client:** Concord/Adelaar/EPR	**Well No:** OW-3 MW-2 cont,
Project Location: Concord/Adelaar/EPR		**Sampled By:**	
Date:		**Sampling Time:** 1310	
LEL at surface:			
PID at surface:			
Total Depth:	ft. below top of casing	**Water Column (WC):** feet	*= 0.163 * WC for 2" wells
Depth to Water:	ft. below top of casing	**Well Volume*:** gallons	*= 0.653 * WC for 4" wells
Depth to Product:	ft. below top of casing	**Volume Purged:** gallons	*= 1.469 * WC for 6" wells
Depth to top of screen:	ft. below top of casing	**Well Diam.:** inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1220	30.61	150	6.31	0.412	6.78	6.02	142	605	
1225	30.61	150	6.37	0.410	6.24	6.02	143	588	
1230	30.61	150	6.33	0.417	5.99	6.02	144	573	
1235	30.61	150	6.29	0.422	5.43	6.01	144	537	
1240	30.61	150	6.24	0.426	5.18	6.02	144	552	
1245	30.61	150	6.27	0.428	3.84	6.02	143	499	
1250	30.61	150	6.28	0.429	3.76	6.01	144	474	
1255	30.61	150	6.25	0.433	3.67	6.01	144	448	
1300	30.61	150	6.31	0.436	3.59	6.01	144	481	
1305	30.61	150	6.38	0.437	3.50	6.01	144	436	
simply 1315	30.61	150	6.55	0.440	3.42	6.01	144	405	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

APPENDIX B

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-200012-1
Client Project/Site: Concord/Adelaar/EPR

For:
AKRF Inc
34 South Broadway
Suite 314
White Plains, New York 10601

Attn: Mr. Bryan Zieroff

Authorized for release by:
1/10/2020 1:42:33 PM
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Designee for

Melissa Haas, Senior Project Manager
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Allison Bennett
Project Manager I
1/10/2020 1:42:33 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Surrogate is outside acceptance limits.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

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)

Job ID: 460-200012-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: Concord/Adelaar/EPR

Report Number: 460-200012-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 1/2/2020 4:00 PM and 1/6/2020 7:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 2.9º C and 3.4º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OU-2-MW-1-123019 (460-200012-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4), TB-123119 (460-200012-8) and FB-123119 (460-200012-9) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 01/03/2020.

The continuing calibration verification (CCV) analyzed in batch 460-666327 was outside the method criteria for the following analyte: 1,2-Dichloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

1,2,4-Trimethylbenzene failed the recovery criteria low for the MS/MSD of sample OU-2-MW-1-123019MS/MSD (460-200012-1) in batch 460-666327.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples OU-2-MW-1-123019 (460-200012-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4) and FB-123119 (460-200012-9) were analyzed for semivolatile organic compounds (GC/MS) in

Job ID: 460-200012-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

accordance with EPA SW-846 Method 8270D. The samples were prepared and analyzed on 01/04/2020.

Surrogates recoveries for the following laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 460-666424 were outside the upper control limits. Sample has been reported. 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCS 460-666424/2-A and LCSD 460-666424/3-A.

Surrogate recovery for the following samples were outside the upper control limit: OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4) and FB-123119 (460-200012-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The surrogate recovery for the blank associated with preparation batch 460-666424 and analytical batch 460-666470 was outside the upper control limits. Phenol-d5 (Surr) failed the surrogate recovery criteria high for MB 460-666424/1-A.

Naphthalene failed the recovery criteria high for the MSD of sample OU-2-MW-1-123019MSD (460-200012-1) in batch 460-666470.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples OU-2-MW-1-123019 (460-200012-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4) and FB-123119 (460-200012-9) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 01/03/2020 and analyzed on 01/06/2020.

The continuing calibration verification (CCV) associated with batch 460-666613 recovered above the upper control limit for Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported: (CCVIS 460-666613/3).

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-666393 and analytical batch 460-666613 recovered outside control limits for all analytes: : (LCSD 460-666393/3-A).

Refer to the QC report for details.

No other difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples OU-2-MW-1-123019 (460-200012-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4) and FB-123119 (460-200012-9) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 01/03/2020 and analyzed on 01/07/2020.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS

Samples OU-2-MW-1-123019 (460-200012-1), OU-3-MW-18-010320 (460-200140-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4), OU-3-MW-2-123119 (460-200012-5), OU-3-MW-4-123119 (460-200012-6), OU-3-MW-14-123119 (460-200012-7) and FB-123119 (460-200012-9) were analyzed for Metals in accordance with 6020B. The samples were prepared on 01/09/2020 and analyzed on 01/09/2020 and 01/10/2020.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the

Job ID: 460-200012-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

spiking amount.

Refer to the QC report for details.

Samples OU-3-MW-2-123119 (460-200012-5)[10X] and OU-3-MW-14-123119 (460-200012-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples OU-2-MW-1-123019 (460-200012-1), OU-3-MW-18-010320 (460-200140-1), OU-2-MW-15-123019 (460-200012-2), OU-2-MW-32-123019 (460-200012-3), OU-2-MW-33-123019 (460-200012-4), OU-3-MW-2-123119 (460-200012-5), OU-3-MW-4-123119 (460-200012-6), OU-3-MW-14-123119 (460-200012-7) and FB-123119 (460-200012-9) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/03/2020 and 01/07/2020.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Client Sample ID: OU-2-MW-1-123019 — Lab Sample ID: 460-200012-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	47		1.0	0.37	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	1.6		1.0	0.33	ug/L	1		8260C	Total/NA
Ethylbenzene	6.5		1.0	0.30	ug/L	1		8260C	Total/NA
n-Butylbenzene	7.9		1.0	0.32	ug/L	1		8260C	Total/NA
N-Propylbenzene	15		1.0	0.32	ug/L	1		8260C	Total/NA
sec-Butylbenzene	3.5		1.0	0.37	ug/L	1		8260C	Total/NA
Toluene	0.61	J	1.0	0.38	ug/L	1		8260C	Total/NA
Xylenes, Total	2.5		2.0	0.65	ug/L	1		8260C	Total/NA
Arsenic	3.2		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	236		4.0	1.2	ug/L	2		6020B	Total/NA
Copper	4.1		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	1.9		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	3130		8.0	2.9	ug/L	2		6020B	Total/NA

Client Sample ID: OU-2-MW-15-123019 — Lab Sample ID: 460-200012-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	177		4.0	1.2	ug/L	2		6020B	Total/NA
Copper	3.6	J	4.0	2.0	ug/L	2		6020B	Total/NA
Manganese	1150		8.0	2.9	ug/L	2		6020B	Total/NA

Client Sample ID: OU-2-MW-32-123019 — Lab Sample ID: 460-200012-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	54		5.0	4.4	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.5		1.0	0.47	ug/L	1		8260C	Total/NA
Arsenic	21.7		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	427		4.0	1.2	ug/L	2		6020B	Total/NA
Chromium	4.0		4.0	2.3	ug/L	2		6020B	Total/NA
Copper	10.7		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	12.0		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	4630		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	4.4		4.0	2.4	ug/L	2		6020B	Total/NA

Client Sample ID: OU-2-MW-33-123019 — Lab Sample ID: 460-200012-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.78	J	2.0	0.73	ug/L	2		6020B	Total/NA
Barium	194		4.0	1.2	ug/L	2		6020B	Total/NA
Copper	3.8	J	4.0	2.0	ug/L	2		6020B	Total/NA
Manganese	1130		8.0	2.9	ug/L	2		6020B	Total/NA

Client Sample ID: OU-3-MW-2-123119 — Lab Sample ID: 460-200012-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	802		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	2.5		0.80	0.25	ug/L	2		6020B	Total/NA
Chromium	34.9		4.0	2.3	ug/L	2		6020B	Total/NA
Copper	74.8		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	53.0		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	17400		40.0	14.4	ug/L	10		6020B	Total/NA
Nickel	29.9		4.0	2.4	ug/L	2		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Client Sample ID: OU-3-MW-2-123119 (Continued) — Lab Sample ID: 460-200012-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	91.2		16.0	11.1	ug/L	2		6020B	Total/NA

Client Sample ID: OU-3-MW-4-123119 — Lab Sample ID: 460-200012-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	52.6		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	278		4.0	1.2	ug/L	2		6020B	Total/NA
Chromium	5.1		4.0	2.3	ug/L	2		6020B	Total/NA
Copper	20.3		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	41.1		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	7730		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	17.3		4.0	2.4	ug/L	2		6020B	Total/NA
Zinc	1510		16.0	11.1	ug/L	2		6020B	Total/NA
Mercury	0.22		0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: OU-3-MW-14-123119 — Lab Sample ID: 460-200012-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20.6		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	297		4.0	1.2	ug/L	2		6020B	Total/NA
Copper	4.7		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	2.5		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	14300		40.0	14.4	ug/L	10		6020B	Total/NA
Nickel	5.6		4.0	2.4	ug/L	2		6020B	Total/NA
Zinc	21.8		16.0	11.1	ug/L	2		6020B	Total/NA

Client Sample ID: TB-123119 — Lab Sample ID: 460-200012-8

No Detections.

Client Sample ID: FB-123119 — Lab Sample ID: 460-200012-9

No Detections.

Client Sample ID: OU-3-MW-18-010320 — Lab Sample ID: 460-200140-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	126		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	0.32	J	0.80	0.25	ug/L	2		6020B	Total/NA
Chromium	5.9		4.0	2.3	ug/L	2		6020B	Total/NA
Copper	15.0		4.0	2.0	ug/L	2		6020B	Total/NA
Lead	11.0		1.2	0.55	ug/L	2		6020B	Total/NA
Manganese	651		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	8.8		4.0	2.4	ug/L	2		6020B	Total/NA
Zinc	21.9		16.0	11.1	ug/L	2		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OU-2-MW-1-123019

Date Collected: 12/30/19 12:30
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 14:52	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 14:52	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 14:52	1
1,2,4-Trimethylbenzene	**47**		1.0	0.37	ug/L			01/03/20 14:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 14:52	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 14:52	1
1,3,5-Trimethylbenzene	**1.6**		1.0	0.33	ug/L			01/03/20 14:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 14:52	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 14:52	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 14:52	1
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 14:52	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 14:52	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 14:52	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 14:52	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 14:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 14:52	1
Ethylbenzene	**6.5**		1.0	0.30	ug/L			01/03/20 14:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 14:52	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 14:52	1
n-Butylbenzene	**7.9**		1.0	0.32	ug/L			01/03/20 14:52	1
N-Propylbenzene	**15**		1.0	0.32	ug/L			01/03/20 14:52	1
sec-Butylbenzene	**3.5**		1.0	0.37	ug/L			01/03/20 14:52	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:52	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 14:52	1
Toluene	**0.61**	**J**	1.0	0.38	ug/L			01/03/20 14:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 14:52	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 14:52	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 14:52	1
Xylenes, Total	**2.5**		2.0	0.65	ug/L			01/03/20 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*74 - 132*		*01/03/20 14:52*	*1*
4-Bromofluorobenzene	*108*		*77 - 124*		*01/03/20 14:52*	*1*
Dibromofluoromethane (Surr)	*111*		*72 - 131*		*01/03/20 14:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/03/20 14:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/04/20 19:21	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/04/20 19:21	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 19:21	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/04/20 19:21	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/04/20 19:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/04/20 19:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/04/20 19:21	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/04/20 19:21	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/04/20 19:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/04/20 19:21	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/04/20 19:21	1

Client Sample ID: OU-2-MW-1-123019

Date Collected: 12/30/19 12:30
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/04/20 19:21	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 19:21	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/04/20 19:21	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/04/20 19:21	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/04/20 19:21	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/04/20 19:21	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 19:21	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/04/20 19:21	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/04/20 19:21	1
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/04/20 19:21	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/04/20 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*26 - 139*	*01/04/20 07:34*	*01/04/20 19:21*	*1*
2-Fluorobiphenyl	*73*		*45 - 107*	*01/04/20 07:34*	*01/04/20 19:21*	*1*
2-Fluorophenol (Surr)	*41*		*25 - 58*	*01/04/20 07:34*	*01/04/20 19:21*	*1*
Nitrobenzene-d5 (Surr)	*82*		*51 - 108*	*01/04/20 07:34*	*01/04/20 19:21*	*1*
Phenol-d5 (Surr)	*29*		*14 - 39*	*01/04/20 07:34*	*01/04/20 19:21*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 148*	*01/04/20 07:34*	*01/04/20 19:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:21	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:21	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:21	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:21	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 15:21	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:21	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 15:21	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:21	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:21	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:21	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:21	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 15:21	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:21	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:21	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:21	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:21*	*1*
DCB Decachlorobiphenyl	*77*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:21*	*1*
Tetrachloro-m-xylene	*78*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:21*	*1*
Tetrachloro-m-xylene	*81*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:21*	*1*

Client Sample ID: OU-2-MW-1-123019

Lab Sample ID: 460-200012-1

Date Collected: 12/30/19 12:30

Matrix: Water

Date Received: 01/02/20 16:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:02	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:02	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:02*	*1*
DCB Decachlorobiphenyl	*64*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:02*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.2**		2.0	0.73	ug/L		01/09/20 04:45	01/09/20 10:54	2
Barium	**236**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 10:54	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 10:54	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 10:54	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 10:54	2
Copper	**4.1**		4.0	2.0	ug/L		01/09/20 04:45	01/09/20 10:54	2
Lead	**1.9**		1.2	0.55	ug/L		01/09/20 04:45	01/09/20 10:54	2
Manganese	**3130**		8.0	2.9	ug/L		01/09/20 04:45	01/09/20 10:54	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 04:45	01/09/20 10:54	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 10:54	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 10:54	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 10:54	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:20	1

Client Sample ID: OU-2-MW-15-123019

Lab Sample ID: 460-200012-2

Date Collected: 12/30/19 10:55

Matrix: Water

Date Received: 01/02/20 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 14:27	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 14:27	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 14:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 14:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 14:27	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 14:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 14:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 14:27	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 14:27	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 14:27	1

Client Sample ID: OU-2-MW-15-123019
Date Collected: 12/30/19 10:55
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 14:27	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 14:27	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 14:27	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 14:27	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 14:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 14:27	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 14:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 14:27	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 14:27	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 14:27	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 14:27	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 14:27	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:27	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 14:27	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 14:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 14:27	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 14:27	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 14:27	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 132*		*01/03/20 14:27*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*01/03/20 14:27*	*1*
Dibromofluoromethane (Surr)	*103*		*72 - 131*		*01/03/20 14:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/03/20 14:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/04/20 20:24	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/04/20 20:24	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:24	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/04/20 20:24	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/04/20 20:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/04/20 20:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/04/20 20:24	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/04/20 20:24	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/04/20 20:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/04/20 20:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/04/20 20:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/04/20 20:24	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:24	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/04/20 20:24	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/04/20 20:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/04/20 20:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/04/20 20:24	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:24	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/04/20 20:24	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/04/20 20:24	1
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/04/20 20:24	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/04/20 20:24	1

Client Sample ID: OU-2-MW-15-123019

Date Collected: 12/30/19 10:55
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*99*		*26 - 139*	*01/04/20 07:34*	*01/04/20 20:24*	*1*
2-Fluorobiphenyl	*105*		*45 - 107*	*01/04/20 07:34*	*01/04/20 20:24*	*1*
2-Fluorophenol (Surr)	*63*	*	*25 - 58*	*01/04/20 07:34*	*01/04/20 20:24*	*1*
Nitrobenzene-d5 (Surr)	*118*	*	*51 - 108*	*01/04/20 07:34*	*01/04/20 20:24*	*1*
Phenol-d5 (Surr)	*45*	*	*14 - 39*	*01/04/20 07:34*	*01/04/20 20:24*	*1*
Terphenyl-d14 (Surr)	*126*		*40 - 148*	*01/04/20 07:34*	*01/04/20 20:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:37	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:37	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:37	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:37	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 15:37	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:37	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 15:37	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:37	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:37	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:37	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:37	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 15:37	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:37	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:37	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:37	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:37*	*1*
DCB Decachlorobiphenyl	*86*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:37*	*1*
Tetrachloro-m-xylene	*89*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:37*	*1*
Tetrachloro-m-xylene	*85*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:37*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:20	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:20	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:20	1

Client Sample ID: OU-2-MW-15-123019
Lab Sample ID: 460-200012-2

Date Collected: 12/30/19 10:55
Matrix: Water
Date Received: 01/02/20 16:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:20*	*1*
DCB Decachlorobiphenyl	*53*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:20*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.73	ug/L		01/09/20 04:45	01/09/20 11:38	2
Barium	**177**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 11:38	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 11:38	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 11:38	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 11:38	2
Copper	**3.6**	**J**	4.0	2.0	ug/L		01/09/20 04:45	01/09/20 11:38	2
Lead	1.2	U	1.2	0.55	ug/L		01/09/20 04:45	01/09/20 11:38	2
Manganese	**1150**		8.0	2.9	ug/L		01/09/20 04:45	01/09/20 11:38	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 04:45	01/09/20 11:38	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 11:38	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 11:38	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 11:38	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:44	1

Client Sample ID: OU-2-MW-32-123019
Lab Sample ID: 460-200012-3

Date Collected: 12/30/19 15:05
Matrix: Water
Date Received: 01/02/20 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 14:02	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 14:02	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 14:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 14:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 14:02	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 14:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 14:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 14:02	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 14:02	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 14:02	1
Acetone	**54**		5.0	4.4	ug/L			01/03/20 14:02	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 14:02	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 14:02	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 14:02	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 14:02	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 14:02	1
Methyl tert-butyl ether	**1.5**		1.0	0.47	ug/L			01/03/20 14:02	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 14:02	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 14:02	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 14:02	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 14:02	1

Client Sample ID: OU-2-MW-32-123019

Date Collected: 12/30/19 15:05
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 14:02	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 14:02	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 14:02	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 14:02	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 14:02	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 132*		*01/03/20 14:02*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*01/03/20 14:02*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*01/03/20 14:02*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*01/03/20 14:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/04/20 20:45	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/04/20 20:45	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:45	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/04/20 20:45	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/04/20 20:45	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/04/20 20:45	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/04/20 20:45	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/04/20 20:45	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/04/20 20:45	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/04/20 20:45	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/04/20 20:45	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/04/20 20:45	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:45	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/04/20 20:45	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/04/20 20:45	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/04/20 20:45	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/04/20 20:45	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 20:45	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/04/20 20:45	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/04/20 20:45	1
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/04/20 20:45	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/04/20 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 139*	*01/04/20 07:34*	*01/04/20 20:45*	*1*
2-Fluorobiphenyl	*110*	*	*45 - 107*	*01/04/20 07:34*	*01/04/20 20:45*	*1*
2-Fluorophenol (Surr)	*65*	*	*25 - 58*	*01/04/20 07:34*	*01/04/20 20:45*	*1*
Nitrobenzene-d5 (Surr)	*122*	*	*51 - 108*	*01/04/20 07:34*	*01/04/20 20:45*	*1*
Phenol-d5 (Surr)	*47*	*	*14 - 39*	*01/04/20 07:34*	*01/04/20 20:45*	*1*
Terphenyl-d14 (Surr)	*124*		*40 - 148*	*01/04/20 07:34*	*01/04/20 20:45*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:52	1

Client Sample ID: OU-2-MW-32-123019
Date Collected: 12/30/19 15:05
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-3
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:52	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:52	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:52	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 15:52	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:52	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 15:52	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:52	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:52	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:52	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 15:52	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 15:52	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 15:52	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 15:52	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 15:52	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:52*	*1*
DCB Decachlorobiphenyl	*37*		*10 - 150*	*01/03/20 15:33*	*01/06/20 15:52*	*1*
Tetrachloro-m-xylene	*77*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:52*	*1*
Tetrachloro-m-xylene	*75*		*12 - 136*	*01/03/20 15:33*	*01/06/20 15:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:37	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:37	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*26*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:37*	*1*
DCB Decachlorobiphenyl	*32*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:37*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**21.7**		2.0	0.73	ug/L		01/09/20 04:45	01/09/20 11:40	2
Barium	**427**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 11:40	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 11:40	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 11:40	2

Client Sample ID: OU-2-MW-32-123019

Lab Sample ID: 460-200012-3

Date Collected: 12/30/19 15:05

Matrix: Water

Date Received: 01/02/20 16:00

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**4.0**		4.0	2.3	ug/L		01/09/20 04:45	01/09/20 11:40	2
Copper	**10.7**		4.0	2.0	ug/L		01/09/20 04:45	01/09/20 11:40	2
Lead	**12.0**		1.2	0.55	ug/L		01/09/20 04:45	01/09/20 11:40	2
Manganese	**4630**		8.0	2.9	ug/L		01/09/20 04:45	01/09/20 11:40	2
Nickel	**4.4**		4.0	2.4	ug/L		01/09/20 04:45	01/09/20 11:40	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 11:40	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 11:40	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 11:40	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:46	1

Client Sample ID: OU-2-MW-33-123019

Lab Sample ID: 460-200012-4

Date Collected: 12/30/19 08:55

Matrix: Water

Date Received: 01/02/20 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 13:36	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 13:36	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 13:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 13:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 13:36	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 13:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 13:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 13:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 13:36	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 13:36	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 13:36	1
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 13:36	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 13:36	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 13:36	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 13:36	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 13:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 13:36	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 13:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 13:36	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 13:36	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 13:36	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 13:36	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 13:36	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 13:36	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 13:36	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 13:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 13:36	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 13:36	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 13:36	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 13:36	1

Client Sample ID: OU-2-MW-33-123019

Lab Sample ID: 460-200012-4

Date Collected: 12/30/19 08:55

Matrix: Water

Date Received: 01/02/20 16:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*01/03/20 13:36*	*1*
4-Bromofluorobenzene	*119*		*77 - 124*		*01/03/20 13:36*	*1*
Dibromofluoromethane (Surr)	*118*		*72 - 131*		*01/03/20 13:36*	*1*
Toluene-d8 (Surr)	*115*		*80 - 120*		*01/03/20 13:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/04/20 21:05	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/04/20 21:05	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:05	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/04/20 21:05	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/04/20 21:05	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/04/20 21:05	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/04/20 21:05	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/04/20 21:05	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/04/20 21:05	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/04/20 21:05	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/04/20 21:05	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/04/20 21:05	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:05	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/04/20 21:05	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/04/20 21:05	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/04/20 21:05	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/04/20 21:05	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:05	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/04/20 21:05	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/04/20 21:05	1
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/04/20 21:05	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/04/20 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*26 - 139*	*01/04/20 07:34*	*01/04/20 21:05*	*1*
2-Fluorobiphenyl	*93*		*45 - 107*	*01/04/20 07:34*	*01/04/20 21:05*	*1*
2-Fluorophenol (Surr)	*58*		*25 - 58*	*01/04/20 07:34*	*01/04/20 21:05*	*1*
Nitrobenzene-d5 (Surr)	*109*	*	*51 - 108*	*01/04/20 07:34*	*01/04/20 21:05*	*1*
Phenol-d5 (Surr)	*42*	*	*14 - 39*	*01/04/20 07:34*	*01/04/20 21:05*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 148*	*01/04/20 07:34*	*01/04/20 21:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 16:08	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:08	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:08	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:08	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 16:08	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:08	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 16:08	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:08	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 16:08	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:08	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:08	1

Client Sample ID: OU-2-MW-33-123019

Lab Sample ID: 460-200012-4

Date Collected: 12/30/19 08:55

Matrix: Water

Date Received: 01/02/20 16:00

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:08	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 16:08	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:08	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 16:08	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 16:08	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 16:08	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:08	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 16:08	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:08	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*10 - 150*	*01/03/20 15:33*	*01/06/20 16:08*	*1*
DCB Decachlorobiphenyl	*118*		*10 - 150*	*01/03/20 15:33*	*01/06/20 16:08*	*1*
Tetrachloro-m-xylene	*131*		*12 - 136*	*01/03/20 15:33*	*01/06/20 16:08*	*1*
Tetrachloro-m-xylene	*131*		*12 - 136*	*01/03/20 15:33*	*01/06/20 16:08*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:54	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 01:54	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:54*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 150*	*01/03/20 15:39*	*01/07/20 01:54*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.78**	**J**	2.0	0.73	ug/L		01/09/20 04:45	01/09/20 11:43	2
Barium	**194**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 11:43	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 11:43	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 11:43	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 11:43	2
Copper	**3.8**	**J**	4.0	2.0	ug/L		01/09/20 04:45	01/09/20 11:43	2
Lead	1.2	U	1.2	0.55	ug/L		01/09/20 04:45	01/09/20 11:43	2
Manganese	**1130**		8.0	2.9	ug/L		01/09/20 04:45	01/09/20 11:43	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 04:45	01/09/20 11:43	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 11:43	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 11:43	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 11:43	2

Client Sample ID: OU-2-MW-33-123019

Lab Sample ID: 460-200012-4

Date Collected: 12/30/19 08:55

Matrix: Water

Date Received: 01/02/20 16:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:47	1

Client Sample ID: OU-3-MW-2-123119

Lab Sample ID: 460-200012-5

Date Collected: 12/31/19 13:10

Matrix: Water

Date Received: 01/02/20 16:00

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		2.0	0.73	ug/L		01/09/20 04:45	01/09/20 11:45	2
Barium	**802**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 11:45	2
Beryllium	**2.5**		0.80	0.25	ug/L		01/09/20 04:45	01/09/20 11:45	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 11:45	2
Chromium	**34.9**		4.0	2.3	ug/L		01/09/20 04:45	01/09/20 11:45	2
Copper	**74.8**		4.0	2.0	ug/L		01/09/20 04:45	01/09/20 11:45	2
Lead	**53.0**		1.2	0.55	ug/L		01/09/20 04:45	01/09/20 11:45	2
Manganese	**17400**		40.0	14.4	ug/L		01/09/20 04:45	01/09/20 11:54	10
Nickel	**29.9**		4.0	2.4	ug/L		01/09/20 04:45	01/09/20 11:45	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 11:45	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 11:45	2
Zinc	**91.2**		16.0	11.1	ug/L		01/09/20 04:45	01/09/20 11:45	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:49	1

Client Sample ID: OU-3-MW-4-123119

Lab Sample ID: 460-200012-6

Date Collected: 12/31/19 09:55

Matrix: Water

Date Received: 01/02/20 16:00

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**52.6**		2.0	0.73	ug/L		01/09/20 04:45	01/09/20 11:56	2
Barium	**278**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 11:56	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 11:56	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 11:56	2
Chromium	**5.1**		4.0	2.3	ug/L		01/09/20 04:45	01/09/20 11:56	2
Copper	**20.3**		4.0	2.0	ug/L		01/09/20 04:45	01/09/20 11:56	2
Lead	**41.1**		1.2	0.55	ug/L		01/09/20 04:45	01/09/20 11:56	2
Manganese	**7730**		8.0	2.9	ug/L		01/09/20 04:45	01/09/20 11:56	2
Nickel	**17.3**		4.0	2.4	ug/L		01/09/20 04:45	01/09/20 11:56	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 11:56	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 11:56	2
Zinc	**1510**		16.0	11.1	ug/L		01/09/20 04:45	01/09/20 11:56	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:51	1

Client Sample ID: OU-3-MW-14-123119
Lab Sample ID: 460-200012-7

Date Collected: 12/31/19 15:15
Matrix: Water
Date Received: 01/02/20 16:00

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**20.6**		2.0	0.73	ug/L		01/09/20 04:45	01/09/20 12:42	2
Barium	**297**		4.0	1.2	ug/L		01/09/20 04:45	01/09/20 12:42	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 12:42	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 12:42	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 12:42	2
Copper	**4.7**		4.0	2.0	ug/L		01/09/20 04:45	01/09/20 12:42	2
Lead	**2.5**		1.2	0.55	ug/L		01/09/20 04:45	01/09/20 12:42	2
Manganese	**14300**		40.0	14.4	ug/L		01/09/20 04:45	01/09/20 12:54	10
Nickel	**5.6**		4.0	2.4	ug/L		01/09/20 04:45	01/09/20 12:42	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 12:42	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 12:42	2
Zinc	**21.8**		16.0	11.1	ug/L		01/09/20 04:45	01/09/20 12:42	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:53	1

Client Sample ID: TB-123119
Lab Sample ID: 460-200012-8

Date Collected: 12/31/19 00:00
Matrix: Water
Date Received: 01/02/20 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 11:04	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 11:04	1
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 11:04	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 11:04	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 11:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 11:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 11:04	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 11:04	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 11:04	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 11:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 11:04	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 11:04	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 11:04	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 11:04	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 11:04	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 11:04	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 11:04	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 11:04	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 11:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 11:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 11:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 11:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 11:04	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 11:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 11:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 11:04	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 11:04	1

Client Sample ID: TB-123119

Lab Sample ID: 460-200012-8

Date Collected: 12/31/19 00:00

Matrix: Water

Date Received: 01/02/20 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 11:04	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 11:04	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*74 - 132*		*01/03/20 11:04*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*01/03/20 11:04*	*1*
4-Bromofluorobenzene	*112*		*77 - 124*		*01/03/20 11:04*	*1*
Dibromofluoromethane (Surr)	*112*		*72 - 131*		*01/03/20 11:04*	*1*

Client Sample ID: FB-123119

Lab Sample ID: 460-200012-9

Date Collected: 12/31/19 16:00

Matrix: Water

Date Received: 01/02/20 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 11:29	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 11:29	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 11:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 11:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 11:29	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 11:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 11:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 11:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 11:29	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 11:29	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 11:29	1
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 11:29	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 11:29	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 11:29	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 11:29	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 11:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 11:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 11:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 11:29	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 11:29	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 11:29	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 11:29	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 11:29	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 11:29	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 11:29	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 11:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 11:29	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 11:29	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 11:29	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*01/03/20 11:29*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*01/03/20 11:29*	*1*

Client Sample ID: FB-123119

Date Collected: 12/31/19 16:00
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-9

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*01/03/20 11:29*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*01/03/20 11:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/04/20 21:26	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/04/20 21:26	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:26	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/04/20 21:26	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/04/20 21:26	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/04/20 21:26	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/04/20 21:26	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/04/20 21:26	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/04/20 21:26	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/04/20 21:26	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/04/20 21:26	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/04/20 21:26	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:26	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/04/20 21:26	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/04/20 21:26	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/04/20 21:26	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/04/20 21:26	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/04/20 21:26	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/04/20 21:26	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/04/20 21:26	1
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/04/20 21:26	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/04/20 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*26 - 139*	*01/04/20 07:34*	*01/04/20 21:26*	*1*
2-Fluorobiphenyl	*102*		*45 - 107*	*01/04/20 07:34*	*01/04/20 21:26*	*1*
2-Fluorophenol (Surr)	*61*	*	*25 - 58*	*01/04/20 07:34*	*01/04/20 21:26*	*1*
Nitrobenzene-d5 (Surr)	*115*	*	*51 - 108*	*01/04/20 07:34*	*01/04/20 21:26*	*1*
Phenol-d5 (Surr)	*44*	*	*14 - 39*	*01/04/20 07:34*	*01/04/20 21:26*	*1*
Terphenyl-d14 (Surr)	*123*		*40 - 148*	*01/04/20 07:34*	*01/04/20 21:26*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 16:24	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:24	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:24	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:24	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 16:24	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:24	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 16:24	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:24	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 16:24	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:24	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 16:24	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:24	1

Client Sample ID: FB-123119

Date Collected: 12/31/19 16:00
Date Received: 01/02/20 16:00

Lab Sample ID: 460-200012-9

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 16:24	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:24	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 16:24	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 16:24	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 16:24	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 16:24	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 16:24	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 16:24	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*10 - 150*	*01/03/20 15:33*	*01/06/20 16:24*	*1*
DCB Decachlorobiphenyl	*56*		*10 - 150*	*01/03/20 15:33*	*01/06/20 16:24*	*1*
Tetrachloro-m-xylene	*93*		*12 - 136*	*01/03/20 15:33*	*01/06/20 16:24*	*1*
Tetrachloro-m-xylene	*98*		*12 - 136*	*01/03/20 15:33*	*01/06/20 16:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 02:11	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/07/20 02:11	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/07/20 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*10 - 150*	*01/03/20 15:39*	*01/07/20 02:11*	*1*
DCB Decachlorobiphenyl	*38*		*10 - 150*	*01/03/20 15:39*	*01/07/20 02:11*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.73	ug/L		01/09/20 04:45	01/09/20 12:32	2
Barium	4.0	U	4.0	1.2	ug/L		01/09/20 04:45	01/09/20 12:32	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 12:32	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 12:32	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 12:32	2
Copper	4.0	U	4.0	2.0	ug/L		01/09/20 04:45	01/09/20 12:32	2
Lead	1.2	U	1.2	0.55	ug/L		01/09/20 04:45	01/09/20 12:32	2
Manganese	8.0	U	8.0	2.9	ug/L		01/09/20 04:45	01/09/20 12:32	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 04:45	01/09/20 12:32	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 12:32	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 12:32	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 12:32	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:58	1

Client Sample Results

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Client Sample ID: OU-3-MW-18-010320

Lab Sample ID: 460-200140-1

Date Collected: 01/03/20 12:00

Matrix: Water

Date Received: 01/06/20 19:20

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		2.0	0.73	ug/L		01/09/20 23:35	01/10/20 12:26	2
Barium	**126**		4.0	1.2	ug/L		01/09/20 23:35	01/10/20 12:26	2
Beryllium	**0.32**	**J**	0.80	0.25	ug/L		01/09/20 23:35	01/10/20 12:26	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 23:35	01/10/20 12:26	2
Chromium	**5.9**		4.0	2.3	ug/L		01/09/20 23:35	01/10/20 12:26	2
Copper	**15.0**		4.0	2.0	ug/L		01/09/20 23:35	01/10/20 12:26	2
Lead	**11.0**		1.2	0.55	ug/L		01/09/20 23:35	01/10/20 12:26	2
Manganese	**651**		8.0	2.9	ug/L		01/09/20 23:35	01/10/20 12:26	2
Nickel	**8.8**		4.0	2.4	ug/L		01/09/20 23:35	01/10/20 12:26	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 23:35	01/10/20 12:26	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 23:35	01/10/20 12:26	2
Zinc	**21.9**		16.0	11.1	ug/L		01/09/20 23:35	01/10/20 12:26	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/07/20 11:29	01/07/20 14:13	1

Surrogate Summary

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (74-132)	BFB (77-124)	DBFM (72-131)	TOL (80-120)
460-200012-1	OU-2-MW-1-123019	94	108	111	101
460-200012-1 MS	OU-2-MW-1-123019	83	104	96	92
460-200012-1 MSD	OU-2-MW-1-123019	85	100	102	93
460-200012-2	OU-2-MW-15-123019	90	106	103	101
460-200012-3	OU-2-MW-32-123019	84	98	100	93
460-200012-4	OU-2-MW-33-123019	107	119	118	115
460-200012-8	TB-123119	97	112	112	108
460-200012-9	FB-123119	87	99	97	95
LCS 460-666327/4	Lab Control Sample	96	111	107	102
MB 460-666327/9	Method Blank	93	107	108	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (26-139)	FBP (45-107)	2FP (25-58)	NBZ (51-108)	PHL (14-39)	TPHL (40-148)
460-200012-1	OU-2-MW-1-123019	70	73	41	82	29	85
460-200012-1 MS	OU-2-MW-1-123019	61	65	38	71	25	75
460-200012-1 MSD	OU-2-MW-1-123019	66	68	40	73	26	76
460-200012-2	OU-2-MW-15-123019	99	105	63 *	118 *	45 *	126
460-200012-3	OU-2-MW-32-123019	100	110 *	65 *	122 *	47 *	124
460-200012-4	OU-2-MW-33-123019	89	93	58	109 *	42 *	113
460-200012-9	FB-123119	94	102	61 *	115 *	44 *	123
LCS 460-666424/2-A	Lab Control Sample	94	99	66 *	102	49 *	114
LCSD 460-666424/3-A	Lab Control Sample Dup	95	98	60 *	104	43 *	114
MB 460-666424/1-A	Method Blank	72	86	54	94	40 *	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (12-136)	TCX2 (12-136)
460-200012-1	OU-2-MW-1-123019	66	77	78	81
460-200012-1 MS	OU-2-MW-1-123019	66	73	75	78
460-200012-1 MSD	OU-2-MW-1-123019	55	61	70	75

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(12-136)	(12-136)
460-200012-2	OU-2-MW-15-123019	74	86	89	85
460-200012-3	OU-2-MW-32-123019	35	37	77	75
460-200012-4	OU-2-MW-33-123019	109	118	131	131
460-200012-9	FB-123119	45	56	93	98
LCS 460-666393/2-A	Lab Control Sample	65	75	80	87
LCSD 460-666393/3-A	Lab Control Sample Dup	90	94	101	106
MB 460-666393/1-A	Method Blank	45	44	70	70

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)
460-200012-1	OU-2-MW-1-123019	51	64
460-200012-1 MS	OU-2-MW-1-123019	64	79
460-200012-1 MSD	OU-2-MW-1-123019	78	98
460-200012-2	OU-2-MW-15-123019	50	53
460-200012-3	OU-2-MW-32-123019	26	32
460-200012-4	OU-2-MW-33-123019	77	85
460-200012-9	FB-123119	33	38
LCS 460-666395/2-A	Lab Control Sample	71	78
LCSD 460-666395/3-A	Lab Control Sample Dup	70	83
MB 460-666395/1-A	Method Blank	43	55

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-666327/9
Matrix: Water
Analysis Batch: 666327

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/03/20 09:22	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/03/20 09:22	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/03/20 09:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/03/20 09:22	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/03/20 09:22	1
Acetone	5.0	U	5.0	4.4	ug/L			01/03/20 09:22	1
Benzene	1.0	U	1.0	0.20	ug/L			01/03/20 09:22	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/03/20 09:22	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/03/20 09:22	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/03/20 09:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/03/20 09:22	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/03/20 09:22	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/03/20 09:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/03/20 09:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/03/20 09:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/03/20 09:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/03/20 09:22	1
1,4-Dioxane	50	U	50	28	ug/L			01/03/20 09:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 09:22	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/03/20 09:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			01/03/20 09:22	1
Toluene	1.0	U	1.0	0.38	ug/L			01/03/20 09:22	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 09:22	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			01/03/20 09:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/03/20 09:22	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			01/03/20 09:22	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/03/20 09:22	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			01/03/20 09:22	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/03/20 09:22	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			01/03/20 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*74 - 132*		*01/03/20 09:22*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*01/03/20 09:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*01/03/20 09:22*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/03/20 09:22*	*1*

Lab Sample ID: LCS 460-666327/4
Matrix: Water
Analysis Batch: 666327

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	19.1		ug/L		96	74 - 123
1,1-Dichloroethane	20.0	16.6		ug/L		83	77 - 123
1,2-Dichloroethane	20.0	17.7		ug/L		89	76 - 121
1,1,1-Trichloroethane	20.0	18.9		ug/L		95	75 - 125
2-Butanone (MEK)	100	108		ug/L		108	64 - 120
Acetone	100	105		ug/L		105	39 - 150

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

Lab Sample ID: LCS 460-666327/4
Matrix: Water
Analysis Batch: 666327

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	22.3		ug/L		112	77 - 121
Carbon tetrachloride	20.0	17.7		ug/L		88	70 - 132
Chloroform	20.0	18.6		ug/L		93	80 - 120
Chlorobenzene	20.0	19.7		ug/L		99	80 - 120
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	80 - 120
Ethylbenzene	20.0	19.3		ug/L		96	80 - 120
Methylene Chloride	20.0	18.8		ug/L		94	77 - 123
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	80 - 120
Methyl tert-butyl ether	20.0	16.8		ug/L		84	79 - 122
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120
o-Xylene	20.0	19.9		ug/L		99	80 - 120
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120
1,4-Dioxane	400	432		ug/L		108	10 - 150
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	78 - 122
Tetrachloroethene	20.0	21.7		ug/L		109	78 - 122
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	80 - 120
Toluene	20.0	19.9		ug/L		100	80 - 120
N-Propylbenzene	20.0	20.3		ug/L		101	80 - 123
sec-Butylbenzene	20.0	20.1		ug/L		101	75 - 128
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	79 - 120
tert-Butylbenzene	20.0	20.0		ug/L		100	79 - 120
Trichloroethene	20.0	18.7		ug/L		93	77 - 120
n-Butylbenzene	20.0	20.1		ug/L		101	72 - 133
Vinyl chloride	20.0	18.1		ug/L		90	62 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*
4-Bromofluorobenzene	*111*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*72 - 131*

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666327

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	20.0	17.6		ug/L		88	75 - 125
1,1-Dichloroethane	1.0	U	20.0	18.1		ug/L		90	77 - 123
1,1-Dichloroethene	1.0	U	20.0	20.9		ug/L		105	74 - 123
1,2,4-Trimethylbenzene	47		20.0	61.5	*	ug/L		71	78 - 122
1,2-Dichlorobenzene	1.0	U	20.0	19.1		ug/L		95	80 - 120
1,2-Dichloroethane	1.0	U	20.0	15.8		ug/L		79	76 - 121
1,3,5-Trimethylbenzene	1.6		20.0	18.9		ug/L		86	80 - 120
1,3-Dichlorobenzene	1.0	U	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	1.0	U	20.0	18.8		ug/L		94	80 - 120
1,4-Dioxane	50	U	400	358		ug/L		90	10 - 150
2-Butanone (MEK)	5.0	U	100	96.5		ug/L		96	64 - 120

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

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666327

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.0	U	100	88.7		ug/L		89	39 - 150
Benzene	1.0	U	20.0	19.0		ug/L		95	77 - 121
Carbon tetrachloride	1.0	U	20.0	16.6		ug/L		83	70 - 132
Chlorobenzene	1.0	U	20.0	18.7		ug/L		93	80 - 120
Chloroform	1.0	U	20.0	18.4		ug/L		92	80 - 120
cis-1,2-Dichloroethene	1.0	U	20.0	19.7		ug/L		98	80 - 120
Ethylbenzene	6.5		20.0	24.2		ug/L		88	80 - 120
Methyl tert-butyl ether	1.0	U	20.0	17.6		ug/L		88	79 - 122
Methylene Chloride	1.0	U	20.0	19.7		ug/L		99	77 - 123
m-Xylene & p-Xylene	1.4		20.0	19.4		ug/L		90	80 - 120
n-Butylbenzene	7.9		20.0	25.0		ug/L		86	72 - 133
N-Propylbenzene	15		20.0	31.6		ug/L		82	80 - 123
o-Xylene	1.0		20.0	19.4		ug/L		92	80 - 120
sec-Butylbenzene	3.5		20.0	21.0		ug/L		87	75 - 128
tert-Butylbenzene	1.0	U	20.0	17.6		ug/L		88	79 - 120
Tetrachloroethene	1.0	U	20.0	21.1		ug/L		105	78 - 122
Toluene	0.61	J	20.0	18.5		ug/L		89	80 - 120
trans-1,2-Dichloroethene	1.0	U	20.0	20.6		ug/L		103	79 - 120
Trichloroethene	1.0	U	20.0	17.9		ug/L		89	77 - 120
Vinyl chloride	1.0	U	20.0	19.9		ug/L		100	62 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*
4-Bromofluorobenzene	*104*		*77 - 124*
Dibromofluoromethane (Surr)	*96*		*72 - 131*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666327

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	20.0	18.9		ug/L		94	75 - 125	7	30
1,1-Dichloroethane	1.0	U	20.0	17.6		ug/L		88	77 - 123	3	30
1,1-Dichloroethene	1.0	U	20.0	21.7		ug/L		108	74 - 123	3	30
1,2,4-Trimethylbenzene	47		20.0	62.2	*	ug/L		74	78 - 122	1	30
1,2-Dichlorobenzene	1.0	U	20.0	19.4		ug/L		97	80 - 120	2	30
1,2-Dichloroethane	1.0	U	20.0	16.3		ug/L		82	76 - 121	3	30
1,3,5-Trimethylbenzene	1.6		20.0	19.2		ug/L		88	80 - 120	2	30
1,3-Dichlorobenzene	1.0	U	20.0	19.5		ug/L		98	80 - 120	0	30
1,4-Dichlorobenzene	1.0	U	20.0	18.9		ug/L		95	80 - 120	1	30
1,4-Dioxane	50	U	400	393		ug/L		98	10 - 150	9	30
2-Butanone (MEK)	5.0	U	100	100		ug/L		100	64 - 120	4	30
Acetone	5.0	U	100	96.9		ug/L		97	39 - 150	9	30
Benzene	1.0	U	20.0	18.2		ug/L		91	77 - 121	4	30
Carbon tetrachloride	1.0	U	20.0	17.9		ug/L		90	70 - 132	8	30
Chlorobenzene	1.0	U	20.0	18.6		ug/L		93	80 - 120	0	30
Chloroform	1.0	U	20.0	19.2		ug/L		96	80 - 120	4	30

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

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666327

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1.0	U	20.0	20.3		ug/L		101	80 - 120	3	30
Ethylbenzene	6.5		20.0	24.6		ug/L		90	80 - 120	2	30
Methyl tert-butyl ether	1.0	U	20.0	17.9		ug/L		89	79 - 122	2	30
Methylene Chloride	1.0	U	20.0	20.6		ug/L		103	77 - 123	4	30
m-Xylene & p-Xylene	1.4		20.0	19.7		ug/L		92	80 - 120	2	30
n-Butylbenzene	7.9		20.0	25.4		ug/L		87	72 - 133	1	30
N-Propylbenzene	15		20.0	31.9		ug/L		84	80 - 123	1	30
o-Xylene	1.0		20.0	19.8		ug/L		94	80 - 120	2	30
sec-Butylbenzene	3.5		20.0	21.7		ug/L		91	75 - 128	3	30
tert-Butylbenzene	1.0	U	20.0	17.6		ug/L		88	79 - 120	0	30
Tetrachloroethene	1.0	U	20.0	20.8		ug/L		104	78 - 122	1	30
Toluene	0.61	J	20.0	19.3		ug/L		94	80 - 120	4	30
trans-1,2-Dichloroethene	1.0	U	20.0	20.9		ug/L		105	79 - 120	2	30
Trichloroethene	1.0	U	20.0	18.8		ug/L		94	77 - 120	5	30
Vinyl chloride	1.0	U	20.0	20.4		ug/L		102	62 - 138	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 132*
4-Bromofluorobenzene	*100*		*77 - 124*
Dibromofluoromethane (Surr)	*102*		*72 - 131*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-666424/1-A
Matrix: Water
Analysis Batch: 666470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.67	ug/L		01/04/20 07:34	01/05/20 00:35	1
3 & 4 Methylphenol	10	U	10	0.64	ug/L		01/04/20 07:34	01/05/20 00:35	1
Acenaphthene	10	U	10	1.1	ug/L		01/04/20 07:34	01/05/20 00:35	1
Acenaphthylene	10	U	10	0.82	ug/L		01/04/20 07:34	01/05/20 00:35	1
Anthracene	10	U	10	0.63	ug/L		01/04/20 07:34	01/05/20 00:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		01/04/20 07:34	01/05/20 00:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		01/04/20 07:34	01/05/20 00:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		01/04/20 07:34	01/05/20 00:35	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		01/04/20 07:34	01/05/20 00:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		01/04/20 07:34	01/05/20 00:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		01/04/20 07:34	01/05/20 00:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		01/04/20 07:34	01/05/20 00:35	1
Dibenzofuran	10	U	10	1.1	ug/L		01/04/20 07:34	01/05/20 00:35	1
Fluoranthene	10	U	10	0.84	ug/L		01/04/20 07:34	01/05/20 00:35	1
Fluorene	10	U	10	0.91	ug/L		01/04/20 07:34	01/05/20 00:35	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		01/04/20 07:34	01/05/20 00:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		01/04/20 07:34	01/05/20 00:35	1
Naphthalene	10	U	10	1.1	ug/L		01/04/20 07:34	01/05/20 00:35	1
Pentachlorophenol	20	U	20	1.4	ug/L		01/04/20 07:34	01/05/20 00:35	1
Phenanthrene	10	U	10	0.58	ug/L		01/04/20 07:34	01/05/20 00:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-666424/1-A
Matrix: Water
Analysis Batch: 666470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	0.29	ug/L		01/04/20 07:34	01/05/20 00:35	1
Pyrene	10	U	10	1.6	ug/L		01/04/20 07:34	01/05/20 00:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*26 - 139*	*01/04/20 07:34*	*01/05/20 00:35*	*1*
2-Fluorobiphenyl	*86*		*45 - 107*	*01/04/20 07:34*	*01/05/20 00:35*	*1*
2-Fluorophenol (Surr)	*54*		*25 - 58*	*01/04/20 07:34*	*01/05/20 00:35*	*1*
Nitrobenzene-d5 (Surr)	*94*		*51 - 108*	*01/04/20 07:34*	*01/05/20 00:35*	*1*
Phenol-d5 (Surr)	*40*	*	*14 - 39*	*01/04/20 07:34*	*01/05/20 00:35*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 148*	*01/04/20 07:34*	*01/05/20 00:35*	*1*

Lab Sample ID: LCS 460-666424/2-A
Matrix: Water
Analysis Batch: 666470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	80.0	57.6		ug/L		72	43 - 80
Acenaphthene	80.0	75.4		ug/L		94	58 - 107
Acenaphthylene	80.0	72.8		ug/L		91	61 - 106
Anthracene	80.0	79.8		ug/L		100	70 - 118
Benzo[a]anthracene	80.0	77.8		ug/L		97	73 - 119
Benzo[a]pyrene	80.0	69.4		ug/L		87	76 - 125
Benzo[b]fluoranthene	80.0	72.0		ug/L		90	78 - 123
Benzo[g,h,i]perylene	80.0	80.1		ug/L		100	63 - 133
Benzo[k]fluoranthene	80.0	76.3		ug/L		95	71 - 126
Chrysene	80.0	88.2		ug/L		110	73 - 121
Dibenz(a,h)anthracene	80.0	83.0		ug/L		104	59 - 136
Dibenzofuran	80.0	74.0		ug/L		92	67 - 108
Fluoranthene	80.0	75.4		ug/L		94	66 - 123
Fluorene	80.0	71.2		ug/L		89	67 - 112
Hexachlorobenzene	80.0	80.8		ug/L		101	63 - 125
Indeno[1,2,3-cd]pyrene	80.0	79.1		ug/L		99	57 - 142
Naphthalene	80.0	67.2		ug/L		84	51 - 98
Pentachlorophenol	160	162		ug/L		101	54 - 120
Phenanthrene	80.0	77.0		ug/L		96	70 - 117
Phenol	80.0	34.5		ug/L		43	16 - 43
Pyrene	80.0	78.7		ug/L		98	63 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*26 - 139*
2-Fluorobiphenyl	*99*		*45 - 107*
2-Fluorophenol (Surr)	*66*	*	*25 - 58*
Nitrobenzene-d5 (Surr)	*102*		*51 - 108*
Phenol-d5 (Surr)	*49*	*	*14 - 39*
Terphenyl-d14 (Surr)	*114*		*40 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-666424/3-A
Matrix: Water
Analysis Batch: 666470

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666424

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylphenol			80.0	54.2		ug/L		68	43 - 80	6	30
Acenaphthene			80.0	71.6		ug/L		89	58 - 107	5	30
Acenaphthylene			80.0	69.1		ug/L		86	61 - 106	5	30
Anthracene			80.0	74.1		ug/L		93	70 - 118	7	30
Benzo[a]anthracene			80.0	72.6		ug/L		91	73 - 119	7	30
Benzo[a]pyrene			80.0	66.4		ug/L		83	76 - 125	4	30
Benzo[b]fluoranthene			80.0	68.7		ug/L		86	78 - 123	5	30
Benzo[g,h,i]perylene			80.0	75.4		ug/L		94	63 - 133	6	30
Benzo[k]fluoranthene			80.0	73.7		ug/L		92	71 - 126	4	30
Chrysene			80.0	83.6		ug/L		104	73 - 121	5	30
Dibenz(a,h)anthracene			80.0	78.6		ug/L		98	59 - 136	5	30
Dibenzofuran			80.0	71.7		ug/L		90	67 - 108	3	30
Fluoranthene			80.0	70.1		ug/L		88	66 - 123	7	30
Fluorene			80.0	68.5		ug/L		86	67 - 112	4	30
Hexachlorobenzene			80.0	76.2		ug/L		95	63 - 125	6	30
Indeno[1,2,3-cd]pyrene			80.0	75.1		ug/L		94	57 - 142	5	30
Naphthalene			80.0	65.4		ug/L		82	51 - 98	3	30
Pentachlorophenol			160	144		ug/L		90	54 - 120	12	30
Phenanthrene			80.0	72.4		ug/L		90	70 - 117	6	30
Phenol			80.0	32.8		ug/L		41	16 - 43	5	30
Pyrene			80.0	77.0		ug/L		96	63 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*26 - 139*
2-Fluorobiphenyl	*98*		*45 - 107*
2-Fluorophenol (Surr)	*60*	*	*25 - 58*
Nitrobenzene-d5 (Surr)	*104*		*51 - 108*
Phenol-d5 (Surr)	*43*	*	*14 - 39*
Terphenyl-d14 (Surr)	*114*		*40 - 148*

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666470

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	10	U	80.0	54.9		ug/L		69	43 - 80
Acenaphthene	10	U	80.0	75.9		ug/L		95	58 - 107
Acenaphthylene	10	U	80.0	74.2		ug/L		93	61 - 106
Anthracene	10	U	80.0	76.9		ug/L		96	70 - 118
Benzo[a]anthracene	1.0	U	80.0	77.9		ug/L		97	73 - 119
Benzo[a]pyrene	1.0	U	80.0	70.5		ug/L		88	76 - 125
Benzo[b]fluoranthene	2.0	U	80.0	69.9		ug/L		87	78 - 123
Benzo[g,h,i]perylene	10	U	80.0	82.7		ug/L		103	63 - 133
Benzo[k]fluoranthene	1.0	U	80.0	79.5		ug/L		99	71 - 126
Chrysene	2.0	U	80.0	89.5		ug/L		112	73 - 121
Dibenz(a,h)anthracene	1.0	U	80.0	84.0		ug/L		105	59 - 136
Dibenzofuran	10	U	80.0	75.6		ug/L		94	67 - 108
Fluoranthene	10	U	80.0	73.8		ug/L		92	66 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666470

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	10	U	80.0	71.7		ug/L		90	67 - 112
Hexachlorobenzene	1.0	U	80.0	80.1		ug/L		100	63 - 125
Indeno[1,2,3-cd]pyrene	2.0	U	80.0	82.8		ug/L		104	57 - 142
Naphthalene	10	U	80.0	77.6		ug/L		97	51 - 98
Pentachlorophenol	20	U	160	161		ug/L		101	54 - 120
Phenanthrene	10	U	80.0	76.8		ug/L		96	70 - 117
Phenol	10	U	80.0	28.3		ug/L		35	16 - 43
Pyrene	10	U	80.0	80.0		ug/L		100	63 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*61*		*26 - 139*
2-Fluorobiphenyl	*65*		*45 - 107*
2-Fluorophenol (Surr)	*38*		*25 - 58*
Nitrobenzene-d5 (Surr)	*71*		*51 - 108*
Phenol-d5 (Surr)	*25*		*14 - 39*
Terphenyl-d14 (Surr)	*75*		*40 - 148*

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666470

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylphenol	10	U	80.0	57.6		ug/L		72	43 - 80	5	30
Acenaphthene	10	U	80.0	79.1		ug/L		99	58 - 107	4	30
Acenaphthylene	10	U	80.0	77.7		ug/L		97	61 - 106	5	30
Anthracene	10	U	80.0	81.4		ug/L		102	70 - 118	6	30
Benzo[a]anthracene	1.0	U	80.0	77.5		ug/L		97	73 - 119	1	30
Benzo[a]pyrene	1.0	U	80.0	70.8		ug/L		88	76 - 125	0	30
Benzo[b]fluoranthene	2.0	U	80.0	71.9		ug/L		90	78 - 123	3	30
Benzo[g,h,i]perylene	10	U	80.0	83.8		ug/L		105	63 - 133	1	30
Benzo[k]fluoranthene	1.0	U	80.0	79.7		ug/L		100	71 - 126	0	30
Chrysene	2.0	U	80.0	89.7		ug/L		112	73 - 121	0	30
Dibenz(a,h)anthracene	1.0	U	80.0	85.2		ug/L		107	59 - 136	1	30
Dibenzofuran	10	U	80.0	78.3		ug/L		98	67 - 108	4	30
Fluoranthene	10	U	80.0	76.1		ug/L		95	66 - 123	3	30
Fluorene	10	U	80.0	74.6		ug/L		93	67 - 112	4	30
Hexachlorobenzene	1.0	U	80.0	82.0		ug/L		102	63 - 125	2	30
Indeno[1,2,3-cd]pyrene	2.0	U	80.0	80.3		ug/L		100	57 - 142	3	30
Naphthalene	10	U	80.0	80.3	*	ug/L		100	51 - 98	3	30
Pentachlorophenol	20	U	160	169		ug/L		106	54 - 120	5	30
Phenanthrene	10	U	80.0	79.1		ug/L		99	70 - 117	3	30
Phenol	10	U	80.0	30.8		ug/L		39	16 - 43	8	30
Pyrene	10	U	80.0	80.4		ug/L		100	63 - 129	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*66*		*26 - 139*
2-Fluorobiphenyl	*68*		*45 - 107*
2-Fluorophenol (Surr)	*40*		*25 - 58*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666470

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666424

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*73*		*51 - 108*
Phenol-d5 (Surr)	*26*		*14 - 39*
Terphenyl-d14 (Surr)	*76*		*40 - 148*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-666393/1-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 11:53	1
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 11:53	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
Aldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 11:53	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		01/03/20 15:33	01/06/20 11:53	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 11:53	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		01/03/20 15:33	01/06/20 11:53	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 11:53	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 11:53	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 11:53	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		01/03/20 15:33	01/06/20 11:53	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 11:53	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		01/03/20 15:33	01/06/20 11:53	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		01/03/20 15:33	01/06/20 11:53	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 11:53	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		01/03/20 15:33	01/06/20 11:53	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-666393/1-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		01/03/20 15:33	01/06/20 11:53	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 11:53	1
Toxaphene	0.50	U	0.50	0.11	ug/L		01/03/20 15:33	01/06/20 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*10 - 150*	*01/03/20 15:33*	*01/06/20 11:53*	*1*
DCB Decachlorobiphenyl	*44*		*10 - 150*	*01/03/20 15:33*	*01/06/20 11:53*	*1*
Tetrachloro-m-xylene	*70*		*12 - 136*	*01/03/20 15:33*	*01/06/20 11:53*	*1*
Tetrachloro-m-xylene	*70*		*12 - 136*	*01/03/20 15:33*	*01/06/20 11:53*	*1*

Lab Sample ID: LCS 460-666393/2-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.639		ug/L		80	58 - 136
4,4'-DDD	0.800	0.692		ug/L		86	58 - 136
4,4'-DDE	0.800	0.632		ug/L		79	56 - 132
4,4'-DDE	0.800	0.731		ug/L		91	56 - 132
4,4'-DDT	0.800	0.624		ug/L		78	56 - 134
4,4'-DDT	0.800	0.689		ug/L		86	56 - 134
Aldrin	0.800	0.668		ug/L		84	52 - 125
Aldrin	0.800	0.762		ug/L		95	52 - 125
alpha-BHC	0.800	0.679		ug/L		85	57 - 133
alpha-BHC	0.800	0.759		ug/L		95	57 - 133
beta-BHC	0.800	0.694		ug/L		87	61 - 134
beta-BHC	0.800	0.753		ug/L		94	61 - 134
cis-Chlordane	0.800	0.643		ug/L		80	59 - 131
cis-Chlordane	0.800	0.750		ug/L		94	59 - 131
delta-BHC	0.800	0.600		ug/L		75	56 - 130
delta-BHC	0.800	0.657		ug/L		82	56 - 130
Dieldrin	0.800	0.636		ug/L		79	61 - 135
Dieldrin	0.800	0.747		ug/L		93	61 - 135
Endosulfan I	0.800	0.661		ug/L		83	61 - 134
Endosulfan I	0.800	0.767		ug/L		96	61 - 134
Endosulfan II	0.800	0.652		ug/L		82	61 - 133
Endosulfan II	0.800	0.677		ug/L		85	61 - 133
Endosulfan sulfate	0.800	0.683		ug/L		85	59 - 133
Endosulfan sulfate	0.800	0.733		ug/L		92	59 - 133
Endrin	0.800	0.684		ug/L		86	60 - 135
Endrin	0.800	0.758		ug/L		95	60 - 135
Endrin aldehyde	0.800	0.678		ug/L		85	59 - 130
Endrin aldehyde	0.800	0.695		ug/L		87	59 - 130
Endrin ketone	0.800	0.694		ug/L		87	60 - 137
Endrin ketone	0.800	0.726		ug/L		91	60 - 137
gamma-BHC (Lindane)	0.800	0.656		ug/L		82	59 - 131
gamma-BHC (Lindane)	0.800	0.745		ug/L		93	59 - 131

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-666393/2-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666393

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Heptachlor			0.800	0.692		ug/L		86	54 - 126		
Heptachlor			0.800	0.742		ug/L		93	54 - 126		
Heptachlor epoxide			0.800	0.660		ug/L		83	60 - 130		
Heptachlor epoxide			0.800	0.755		ug/L		94	60 - 130		
Methoxychlor			0.800	0.740		ug/L		93	57 - 133		
Methoxychlor			0.800	0.672		ug/L		84	57 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*10 - 150*
DCB Decachlorobiphenyl	*75*		*10 - 150*
Tetrachloro-m-xylene	*80*		*12 - 136*
Tetrachloro-m-xylene	*87*		*12 - 136*

Lab Sample ID: LCSD 460-666393/3-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.894	*	ug/L		112	58 - 136	33	30
4,4'-DDD			0.800	0.813		ug/L		102	58 - 136	16	30
4,4'-DDE			0.800	0.886	*	ug/L		111	56 - 132	33	30
4,4'-DDE			0.800	0.830		ug/L		104	56 - 132	13	30
4,4'-DDT			0.800	0.883	*	ug/L		110	56 - 134	34	30
4,4'-DDT			0.800	0.821		ug/L		103	56 - 134	18	30
Aldrin			0.800	0.910	*	ug/L		114	52 - 125	31	30
Aldrin			0.800	0.909		ug/L		114	52 - 125	18	30
alpha-BHC			0.800	0.910		ug/L		114	57 - 133	29	30
alpha-BHC			0.800	0.910		ug/L		114	57 - 133	18	30
beta-BHC			0.800	0.922		ug/L		115	61 - 134	28	30
beta-BHC			0.800	0.890		ug/L		111	61 - 134	17	30
cis-Chlordane			0.800	0.878	*	ug/L		110	59 - 131	31	30
cis-Chlordane			0.800	0.857		ug/L		107	59 - 131	13	30
delta-BHC			0.800	0.805		ug/L		101	56 - 130	29	30
delta-BHC			0.800	0.775		ug/L		97	56 - 130	16	30
Dieldrin			0.800	0.877	*	ug/L		110	61 - 135	32	30
Dieldrin			0.800	0.859		ug/L		107	61 - 135	14	30
Endosulfan I			0.800	0.917	*	ug/L		115	61 - 134	32	30
Endosulfan I			0.800	0.883		ug/L		110	61 - 134	14	30
Endosulfan II			0.800	0.901	*	ug/L		113	61 - 133	32	30
Endosulfan II			0.800	0.810		ug/L		101	61 - 133	18	30
Endosulfan sulfate			0.800	0.862		ug/L		108	59 - 133	23	30
Endosulfan sulfate			0.800	0.915		ug/L		114	59 - 133	22	30
Endrin			0.800	0.932	*	ug/L		117	60 - 135	31	30
Endrin			0.800	0.896		ug/L		112	60 - 135	17	30
Endrin aldehyde			0.800	0.972	*	ug/L		122	59 - 130	36	30
Endrin aldehyde			0.800	0.841		ug/L		105	59 - 130	19	30
Endrin ketone			0.800	0.937		ug/L		117	60 - 137	30	30
Endrin ketone			0.800	0.904		ug/L		113	60 - 137	22	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-666393/3-A
Matrix: Water
Analysis Batch: 666613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
gamma-BHC (Lindane)			0.800	0.873		ug/L		109	59 - 131	28	30
gamma-BHC (Lindane)			0.800	0.885		ug/L		111	59 - 131	17	30
Heptachlor			0.800	0.938		ug/L		117	54 - 126	30	30
Heptachlor			0.800	0.878		ug/L		110	54 - 126	17	30
Heptachlor epoxide			0.800	0.899	*	ug/L		112	60 - 130	31	30
Heptachlor epoxide			0.800	0.883		ug/L		110	60 - 130	16	30
Methoxychlor			0.800	0.970		ug/L		121	57 - 133	27	30
Methoxychlor			0.800	0.809		ug/L		101	57 - 133	19	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*10 - 150*
DCB Decachlorobiphenyl	*94*		*10 - 150*
Tetrachloro-m-xylene	*101*		*12 - 136*
Tetrachloro-m-xylene	*106*		*12 - 136*

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666613

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.020	U	0.800	0.779		ug/L		97	58 - 136
4,4'-DDD	0.020	U	0.800	0.797		ug/L		100	58 - 136
4,4'-DDE	0.020	U	0.800	0.717		ug/L		90	56 - 132
4,4'-DDE	0.020	U	0.800	0.747		ug/L		93	56 - 132
4,4'-DDT	0.020	U	0.800	0.664		ug/L		83	56 - 134
4,4'-DDT	0.020	U	0.800	0.735		ug/L		92	56 - 134
Aldrin	0.020	U	0.800	0.736		ug/L		92	52 - 125
Aldrin	0.020	U	0.800	0.763		ug/L		95	52 - 125
alpha-BHC	0.020	U	0.800	0.806		ug/L		101	57 - 133
alpha-BHC	0.020	U	0.800	0.756		ug/L		95	57 - 133
beta-BHC	0.020	U	0.800	0.743		ug/L		93	61 - 134
beta-BHC	0.020	U	0.800	0.783		ug/L		98	61 - 134
cis-Chlordane	0.020	U	0.800	0.743		ug/L		93	59 - 131
cis-Chlordane	0.020	U	0.800	0.768		ug/L		96	59 - 131
delta-BHC	0.020	U	0.800	0.741		ug/L		93	56 - 130
delta-BHC	0.020	U	0.800	0.711		ug/L		89	56 - 130
Dieldrin	0.020	U	0.800	0.744		ug/L		93	61 - 135
Dieldrin	0.020	U	0.800	0.791		ug/L		99	61 - 135
Endosulfan I	0.020	U	0.800	0.768		ug/L		96	61 - 134
Endosulfan I	0.020	U	0.800	0.790		ug/L		99	61 - 134
Endosulfan II	0.020	U	0.800	0.739		ug/L		92	61 - 133
Endosulfan II	0.020	U	0.800	0.749		ug/L		94	61 - 133
Endosulfan sulfate	0.020	U	0.800	0.800		ug/L		100	59 - 133
Endosulfan sulfate	0.020	U	0.800	0.892		ug/L		111	59 - 133
Endrin	0.020	U	0.800	0.801		ug/L		100	60 - 135
Endrin	0.020	U	0.800	0.823		ug/L		103	60 - 135
Endrin aldehyde	0.020	U	0.800	0.708		ug/L		88	59 - 130
Endrin aldehyde	0.020	U	0.800	0.754		ug/L		94	59 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666613

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin ketone	0.020	U	0.800	0.766		ug/L		96	60 - 137
Endrin ketone	0.020	U	0.800	0.827		ug/L		103	60 - 137
gamma-BHC (Lindane)	0.020	U	0.800	0.764		ug/L		95	59 - 131
gamma-BHC (Lindane)	0.020	U	0.800	0.747		ug/L		93	59 - 131
Heptachlor	0.020	U	0.800	0.794		ug/L		99	54 - 126
Heptachlor	0.020	U	0.800	0.745		ug/L		93	54 - 126
Heptachlor epoxide	0.020	U	0.800	0.750		ug/L		94	60 - 130
Heptachlor epoxide	0.020	U	0.800	0.781		ug/L		98	60 - 130
Methoxychlor	0.020	U	0.800	0.799		ug/L		100	57 - 133
Methoxychlor	0.020	U	0.800	0.814		ug/L		102	57 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*10 - 150*
DCB Decachlorobiphenyl	*73*		*10 - 150*
Tetrachloro-m-xylene	*75*		*12 - 136*
Tetrachloro-m-xylene	*78*		*12 - 136*

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666613

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.020	U	0.800	0.734		ug/L		92	58 - 136	6	30
4,4'-DDD	0.020	U	0.800	0.746		ug/L		93	58 - 136	7	30
4,4'-DDE	0.020	U	0.800	0.654		ug/L		82	56 - 132	9	30
4,4'-DDE	0.020	U	0.800	0.705		ug/L		88	56 - 132	6	30
4,4'-DDT	0.020	U	0.800	0.643		ug/L		80	56 - 134	3	30
4,4'-DDT	0.020	U	0.800	0.688		ug/L		86	56 - 134	7	30
Aldrin	0.020	U	0.800	0.699		ug/L		87	52 - 125	5	30
Aldrin	0.020	U	0.800	0.756		ug/L		95	52 - 125	1	30
alpha-BHC	0.020	U	0.800	0.730		ug/L		91	57 - 133	10	30
alpha-BHC	0.020	U	0.800	0.771		ug/L		96	57 - 133	2	30
beta-BHC	0.020	U	0.800	0.694		ug/L		87	61 - 134	7	30
beta-BHC	0.020	U	0.800	0.800		ug/L		100	61 - 134	2	30
cis-Chlordane	0.020	U	0.800	0.741		ug/L		93	59 - 131	0	30
cis-Chlordane	0.020	U	0.800	0.759		ug/L		95	59 - 131	1	30
delta-BHC	0.020	U	0.800	0.671		ug/L		84	56 - 130	10	30
delta-BHC	0.020	U	0.800	0.706		ug/L		88	56 - 130	1	30
Dieldrin	0.020	U	0.800	0.725		ug/L		91	61 - 135	3	30
Dieldrin	0.020	U	0.800	0.762		ug/L		95	61 - 135	4	30
Endosulfan I	0.020	U	0.800	0.736		ug/L		92	61 - 134	4	30
Endosulfan I	0.020	U	0.800	0.778		ug/L		97	61 - 134	2	30
Endosulfan II	0.020	U	0.800	0.721		ug/L		90	61 - 133	2	30
Endosulfan II	0.020	U	0.800	0.712		ug/L		89	61 - 133	5	30
Endosulfan sulfate	0.020	U	0.800	0.783		ug/L		98	59 - 133	2	30
Endosulfan sulfate	0.020	U	0.800	0.837		ug/L		105	59 - 133	6	30
Endrin	0.020	U	0.800	0.784		ug/L		98	60 - 135	2	30
Endrin	0.020	U	0.800	0.789		ug/L		99	60 - 135	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666613

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin aldehyde	0.020	U	0.800	0.704		ug/L		88	59 - 130	1	30
Endrin aldehyde	0.020	U	0.800	0.722		ug/L		90	59 - 130	4	30
Endrin ketone	0.020	U	0.800	0.789		ug/L		99	60 - 137	3	30
Endrin ketone	0.020	U	0.800	0.772		ug/L		97	60 - 137	7	30
gamma-BHC (Lindane)	0.020	U	0.800	0.694		ug/L		87	59 - 131	10	30
gamma-BHC (Lindane)	0.020	U	0.800	0.756		ug/L		95	59 - 131	1	30
Heptachlor	0.020	U	0.800	0.724		ug/L		91	54 - 126	9	30
Heptachlor	0.020	U	0.800	0.740		ug/L		93	54 - 126	1	30
Heptachlor epoxide	0.020	U	0.800	0.731		ug/L		91	60 - 130	3	30
Heptachlor epoxide	0.020	U	0.800	0.769		ug/L		96	60 - 130	2	30
Methoxychlor	0.020	U	0.800	0.758		ug/L		95	57 - 133	5	30
Methoxychlor	0.020	U	0.800	0.756		ug/L		94	57 - 133	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*10 - 150*
DCB Decachlorobiphenyl	*61*		*10 - 150*
Tetrachloro-m-xylene	*70*		*12 - 136*
Tetrachloro-m-xylene	*75*		*12 - 136*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-666395/1-A
Matrix: Water
Analysis Batch: 666668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1016	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		01/03/20 15:39	01/06/20 23:02	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		01/03/20 15:39	01/06/20 23:02	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-666395/1-A
Matrix: Water
Analysis Batch: 666668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666395

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		10 - 150	01/03/20 15:39	01/06/20 23:02	1
DCB Decachlorobiphenyl	55		10 - 150	01/03/20 15:39	01/06/20 23:02	1

Lab Sample ID: LCS 460-666395/2-A
Matrix: Water
Analysis Batch: 666668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666395

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.91		ug/L		98	78 - 150		
Aroclor 1016			4.00	3.62		ug/L		91	78 - 150		
Aroclor 1260			4.00	4.57		ug/L		114	80 - 150		
Aroclor 1260			4.00	4.02		ug/L		101	80 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	71		10 - 150
DCB Decachlorobiphenyl	78		10 - 150

Lab Sample ID: LCSD 460-666395/3-A
Matrix: Water
Analysis Batch: 666668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666395

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.94		ug/L		98	78 - 150	1	30
Aroclor 1016			4.00	3.87		ug/L		97	78 - 150	7	30
Aroclor 1260			4.00	4.47		ug/L		112	80 - 150	2	30
Aroclor 1260			4.00	4.38		ug/L		110	80 - 150	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	70		10 - 150
DCB Decachlorobiphenyl	83		10 - 150

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666668

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666395

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	64		10 - 150
DCB Decachlorobiphenyl	79		10 - 150

Lab Sample ID: 460-200012-1 MSD
Matrix: Water
Analysis Batch: 666668

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666395

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	78		10 - 150
DCB Decachlorobiphenyl	98		10 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-667216/1-A ^2
Matrix: Water
Analysis Batch: 667328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.73	ug/L		01/09/20 04:45	01/09/20 10:42	2
Barium	4.0	U	4.0	1.2	ug/L		01/09/20 04:45	01/09/20 10:42	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 04:45	01/09/20 10:42	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 04:45	01/09/20 10:42	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 04:45	01/09/20 10:42	2
Copper	4.0	U	4.0	2.0	ug/L		01/09/20 04:45	01/09/20 10:42	2
Lead	1.2	U	1.2	0.55	ug/L		01/09/20 04:45	01/09/20 10:42	2
Manganese	8.0	U	8.0	2.9	ug/L		01/09/20 04:45	01/09/20 10:42	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 04:45	01/09/20 10:42	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 04:45	01/09/20 10:42	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 04:45	01/09/20 10:42	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 04:45	01/09/20 10:42	2

Lab Sample ID: LCS 460-667216/2-A ^2
Matrix: Water
Analysis Batch: 667328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.59		ug/L		97	80 - 120
Barium	50.0	48.97		ug/L		98	80 - 120
Beryllium	25.0	24.50		ug/L		98	80 - 120
Cadmium	25.0	25.15		ug/L		101	80 - 120
Chromium	50.0	50.91		ug/L		102	80 - 120
Copper	50.0	52.43		ug/L		105	80 - 120
Lead	25.0	24.42		ug/L		98	80 - 120
Manganese	250	251.5		ug/L		101	80 - 120
Nickel	50.0	51.81		ug/L		104	80 - 120
Selenium	50.0	47.64		ug/L		95	80 - 120
Silver	25.0	25.59		ug/L		102	80 - 120
Zinc	250	247.1		ug/L		99	80 - 120

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 667328

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 667216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.2		50.0	55.06		ug/L		104	75 - 125
Barium	236		50.0	284.5	4	ug/L		98	75 - 125
Beryllium	0.80	U	25.0	24.78		ug/L		99	75 - 125
Cadmium	2.0	U	25.0	26.02		ug/L		104	75 - 125
Chromium	4.0	U	50.0	54.72		ug/L		109	75 - 125
Copper	4.1		50.0	57.01		ug/L		106	75 - 125
Lead	1.9		25.0	27.91		ug/L		104	75 - 125
Manganese	3130		250	3411	4	ug/L		113	75 - 125
Nickel	4.0	U	50.0	54.55		ug/L		109	75 - 125
Selenium	10.0	U	50.0	48.52		ug/L		97	75 - 125
Silver	2.0	U	25.0	25.80		ug/L		103	75 - 125
Zinc	16.0	U	250	262.2		ug/L		105	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-200012-1 DU
Matrix: Water
Analysis Batch: 667328

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 667216

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.2		2.69		ug/L		17	20
Barium	236		238.5		ug/L		1	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Copper	4.1		3.97	J	ug/L		3	20
Lead	1.9		1.99		ug/L		3	20
Manganese	3130		3163		ug/L		1	20
Nickel	4.0	U	4.0	U	ug/L		NC	20
Selenium	10.0	U	10.0	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: MB 460-667466/1-A ^2
Matrix: Water
Analysis Batch: 667608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.73	ug/L		01/09/20 23:35	01/10/20 11:09	2
Barium	4.0	U	4.0	1.2	ug/L		01/09/20 23:35	01/10/20 11:09	2
Beryllium	0.80	U	0.80	0.25	ug/L		01/09/20 23:35	01/10/20 11:09	2
Cadmium	2.0	U	2.0	0.81	ug/L		01/09/20 23:35	01/10/20 11:09	2
Chromium	4.0	U	4.0	2.3	ug/L		01/09/20 23:35	01/10/20 11:09	2
Copper	4.0	U	4.0	2.0	ug/L		01/09/20 23:35	01/10/20 11:09	2
Lead	1.2	U	1.2	0.55	ug/L		01/09/20 23:35	01/10/20 11:09	2
Manganese	8.0	U	8.0	2.9	ug/L		01/09/20 23:35	01/10/20 11:09	2
Nickel	4.0	U	4.0	2.4	ug/L		01/09/20 23:35	01/10/20 11:09	2
Selenium	10.0	U	10.0	5.4	ug/L		01/09/20 23:35	01/10/20 11:09	2
Silver	2.0	U	2.0	0.59	ug/L		01/09/20 23:35	01/10/20 11:09	2
Zinc	16.0	U	16.0	11.1	ug/L		01/09/20 23:35	01/10/20 11:09	2

Lab Sample ID: LCS 460-667466/2-A ^2
Matrix: Water
Analysis Batch: 667608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.31		ug/L		101	80 - 120
Barium	50.0	52.05		ug/L		104	80 - 120
Beryllium	25.0	23.73		ug/L		95	80 - 120
Cadmium	25.0	26.02		ug/L		104	80 - 120
Chromium	50.0	53.33		ug/L		107	80 - 120
Copper	50.0	55.47		ug/L		111	80 - 120
Lead	25.0	25.63		ug/L		103	80 - 120
Manganese	250	255.1		ug/L		102	80 - 120
Nickel	50.0	54.38		ug/L		109	80 - 120
Selenium	50.0	51.97		ug/L		104	80 - 120
Silver	25.0	26.51		ug/L		106	80 - 120
Zinc	250	257.3		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-200146-I-3-C MS ^2
Matrix: Water
Analysis Batch: 667608

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 667466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.0	U	50.0	49.46		ug/L		99	75 - 125
Barium	14.5		50.0	64.79		ug/L		101	75 - 125
Beryllium	0.80	U	25.0	23.37		ug/L		93	75 - 125
Cadmium	2.0	U	25.0	25.39		ug/L		102	75 - 125
Chromium	2.5	J	50.0	52.18		ug/L		99	75 - 125
Copper	4.0	U	50.0	52.15		ug/L		104	75 - 125
Lead	1.2	U	25.0	25.12		ug/L		100	75 - 125
Manganese	8.0	U	250	248.0		ug/L		99	75 - 125
Nickel	4.0	U	50.0	51.96		ug/L		104	75 - 125
Selenium	10.0	U	50.0	51.31		ug/L		103	75 - 125
Silver	2.0	U	25.0	25.10		ug/L		100	75 - 125
Zinc	16.0	U	250	249.9		ug/L		100	75 - 125

Lab Sample ID: 460-200146-I-3-B DU ^2
Matrix: Water
Analysis Batch: 667608

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 667466

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	14.5		13.47		ug/L		7	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Chromium	2.5	J	2.44	J	ug/L		3	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Manganese	8.0	U	8.0	U	ug/L		NC	20
Nickel	4.0	U	4.0	U	ug/L		NC	20
Selenium	10.0	U	10.0	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-666375/1-A
Matrix: Water
Analysis Batch: 666401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/03/20 12:06	01/03/20 13:17	1

Lab Sample ID: LCS 460-666375/2-A
Matrix: Water
Analysis Batch: 666401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.00		ug/L		100	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-200012-1 MS
Matrix: Water
Analysis Batch: 666401

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.00		ug/L		100	75 - 125

Lab Sample ID: 460-200012-1 DU
Matrix: Water
Analysis Batch: 666401

Client Sample ID: OU-2-MW-1-123019
Prep Type: Total/NA
Prep Batch: 666375

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

Lab Sample ID: MB 460-666853/1-A
Matrix: Water
Analysis Batch: 666887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		01/07/20 11:29	01/07/20 13:32	1

Lab Sample ID: LCS 460-666853/2-A
Matrix: Water
Analysis Batch: 666887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 460-199892-K-1-C MS
Matrix: Water
Analysis Batch: 666887

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 666853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.05		ug/L		105	75 - 125

Lab Sample ID: 460-199892-K-1-B DU
Matrix: Water
Analysis Batch: 666887

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 666853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

GC/MS VOA

Analysis Batch: 666327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	8260C	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	8260C	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	8260C	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	8260C	
460-200012-8	TB-123119	Total/NA	Water	8260C	
460-200012-9	FB-123119	Total/NA	Water	8260C	
MB 460-666327/9	Method Blank	Total/NA	Water	8260C	
LCS 460-666327/4	Lab Control Sample	Total/NA	Water	8260C	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	8260C	
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 666424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	3510C	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	3510C	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	3510C	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	3510C	
460-200012-9	FB-123119	Total/NA	Water	3510C	
MB 460-666424/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-666424/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-666424/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	3510C	
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	3510C	

Analysis Batch: 666470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	8270D	666424
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	8270D	666424
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	8270D	666424
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	8270D	666424
460-200012-9	FB-123119	Total/NA	Water	8270D	666424
MB 460-666424/1-A	Method Blank	Total/NA	Water	8270D	666424
LCS 460-666424/2-A	Lab Control Sample	Total/NA	Water	8270D	666424
LCSD 460-666424/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	666424
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	8270D	666424
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	8270D	666424

GC Semi VOA

Prep Batch: 666393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	3510C	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	3510C	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	3510C	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	3510C	
460-200012-9	FB-123119	Total/NA	Water	3510C	
MB 460-666393/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-666393/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-666393/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 666393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	3510C	

Prep Batch: 666395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	3510C	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	3510C	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	3510C	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	3510C	
460-200012-9	FB-123119	Total/NA	Water	3510C	
MB 460-666395/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-666395/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-666395/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	3510C	
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	3510C	

Analysis Batch: 666613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	8081B	666393
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	8081B	666393
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	8081B	666393
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	8081B	666393
460-200012-9	FB-123119	Total/NA	Water	8081B	666393
MB 460-666393/1-A	Method Blank	Total/NA	Water	8081B	666393
LCS 460-666393/2-A	Lab Control Sample	Total/NA	Water	8081B	666393
LCSD 460-666393/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	666393
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	8081B	666393
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	8081B	666393

Analysis Batch: 666668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	8082A	666395
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	8082A	666395
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	8082A	666395
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	8082A	666395
460-200012-9	FB-123119	Total/NA	Water	8082A	666395
MB 460-666395/1-A	Method Blank	Total/NA	Water	8082A	666395
LCS 460-666395/2-A	Lab Control Sample	Total/NA	Water	8082A	666395
LCSD 460-666395/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	666395
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	8082A	666395
460-200012-1 MSD	OU-2-MW-1-123019	Total/NA	Water	8082A	666395

Metals

Prep Batch: 666375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	7470A	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	7470A	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	7470A	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	7470A	
460-200012-5	OU-3-MW-2-123119	Total/NA	Water	7470A	
460-200012-6	OU-3-MW-4-123119	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 666375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-7	OU-3-MW-14-123119	Total/NA	Water	7470A	
460-200012-9	FB-123119	Total/NA	Water	7470A	
MB 460-666375/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-666375/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	7470A	
460-200012-1 DU	OU-2-MW-1-123019	Total/NA	Water	7470A	

Analysis Batch: 666401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	7470A	666375
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	7470A	666375
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	7470A	666375
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	7470A	666375
460-200012-5	OU-3-MW-2-123119	Total/NA	Water	7470A	666375
460-200012-6	OU-3-MW-4-123119	Total/NA	Water	7470A	666375
460-200012-7	OU-3-MW-14-123119	Total/NA	Water	7470A	666375
460-200012-9	FB-123119	Total/NA	Water	7470A	666375
MB 460-666375/1-A	Method Blank	Total/NA	Water	7470A	666375
LCS 460-666375/2-A	Lab Control Sample	Total/NA	Water	7470A	666375
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	7470A	666375
460-200012-1 DU	OU-2-MW-1-123019	Total/NA	Water	7470A	666375

Prep Batch: 666853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200140-1	OU-3-MW-18-010320	Total/NA	Water	7470A	
MB 460-666853/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-666853/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-199892-K-1-C MS	Matrix Spike	Total/NA	Water	7470A	
460-199892-K-1-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 666887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200140-1	OU-3-MW-18-010320	Total/NA	Water	7470A	666853
MB 460-666853/1-A	Method Blank	Total/NA	Water	7470A	666853
LCS 460-666853/2-A	Lab Control Sample	Total/NA	Water	7470A	666853
460-199892-K-1-C MS	Matrix Spike	Total/NA	Water	7470A	666853
460-199892-K-1-B DU	Duplicate	Total/NA	Water	7470A	666853

Prep Batch: 667216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	3010A	
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	3010A	
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	3010A	
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	3010A	
460-200012-5	OU-3-MW-2-123119	Total/NA	Water	3010A	
460-200012-6	OU-3-MW-4-123119	Total/NA	Water	3010A	
460-200012-7	OU-3-MW-14-123119	Total/NA	Water	3010A	
460-200012-9	FB-123119	Total/NA	Water	3010A	
MB 460-667216/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-667216/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 667216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1 DU	OU-2-MW-1-123019	Total/NA	Water	3010A	

Analysis Batch: 667328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200012-1	OU-2-MW-1-123019	Total/NA	Water	6020B	667216
460-200012-2	OU-2-MW-15-123019	Total/NA	Water	6020B	667216
460-200012-3	OU-2-MW-32-123019	Total/NA	Water	6020B	667216
460-200012-4	OU-2-MW-33-123019	Total/NA	Water	6020B	667216
460-200012-5	OU-3-MW-2-123119	Total/NA	Water	6020B	667216
460-200012-5	OU-3-MW-2-123119	Total/NA	Water	6020B	667216
460-200012-6	OU-3-MW-4-123119	Total/NA	Water	6020B	667216
460-200012-7	OU-3-MW-14-123119	Total/NA	Water	6020B	667216
460-200012-7	OU-3-MW-14-123119	Total/NA	Water	6020B	667216
460-200012-9	FB-123119	Total/NA	Water	6020B	667216
MB 460-667216/1-A ^2	Method Blank	Total/NA	Water	6020B	667216
LCS 460-667216/2-A ^2	Lab Control Sample	Total/NA	Water	6020B	667216
460-200012-1 MS	OU-2-MW-1-123019	Total/NA	Water	6020B	667216
460-200012-1 DU	OU-2-MW-1-123019	Total/NA	Water	6020B	667216

Prep Batch: 667466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200140-1	OU-3-MW-18-010320	Total/NA	Water	3010A	
MB 460-667466/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-667466/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-200146-I-3-C MS ^2	Matrix Spike	Total/NA	Water	3010A	
460-200146-I-3-B DU ^2	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 667608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200140-1	OU-3-MW-18-010320	Total/NA	Water	6020B	667466
MB 460-667466/1-A ^2	Method Blank	Total/NA	Water	6020B	667466
LCS 460-667466/2-A ^2	Lab Control Sample	Total/NA	Water	6020B	667466
460-200146-I-3-C MS ^2	Matrix Spike	Total/NA	Water	6020B	667466
460-200146-I-3-B DU ^2	Duplicate	Total/NA	Water	6020B	667466

Lab Chronicle

Client: AKRF Inc
Job ID: 460-200012-1
Project/Site: Concord/Adelaar/EPR

Client Sample ID: OU-2-MW-1-123019
Lab Sample ID: 460-200012-1
Date Collected: 12/30/19 12:30
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 14:52	CJM	TAL EDI
Total/NA	Prep	3510C			666424	01/04/20 07:34	DXD	TAL EDI
Total/NA	Analysis	8270D		1	666470	01/04/20 19:21	YAH	TAL EDI
Total/NA	Prep	3510C			666393	01/03/20 15:33	ATF	TAL EDI
Total/NA	Analysis	8081B		1	666613	01/06/20 15:21	JHP	TAL EDI
Total/NA	Prep	3510C			666395	01/03/20 15:39	ATF	TAL EDI
Total/NA	Analysis	8082A		1	666668	01/07/20 01:02	JHP	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 10:54	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:20	RBS	TAL EDI

Client Sample ID: OU-2-MW-15-123019
Lab Sample ID: 460-200012-2
Date Collected: 12/30/19 10:55
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 14:27	CJM	TAL EDI
Total/NA	Prep	3510C			666424	01/04/20 07:34	DXD	TAL EDI
Total/NA	Analysis	8270D		1	666470	01/04/20 20:24	YAH	TAL EDI
Total/NA	Prep	3510C			666393	01/03/20 15:33	ATF	TAL EDI
Total/NA	Analysis	8081B		1	666613	01/06/20 15:37	JHP	TAL EDI
Total/NA	Prep	3510C			666395	01/03/20 15:39	ATF	TAL EDI
Total/NA	Analysis	8082A		1	666668	01/07/20 01:20	JHP	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 11:38	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:44	RBS	TAL EDI

Client Sample ID: OU-2-MW-32-123019
Lab Sample ID: 460-200012-3
Date Collected: 12/30/19 15:05
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 14:02	CJM	TAL EDI
Total/NA	Prep	3510C			666424	01/04/20 07:34	DXD	TAL EDI
Total/NA	Analysis	8270D		1	666470	01/04/20 20:45	YAH	TAL EDI
Total/NA	Prep	3510C			666393	01/03/20 15:33	ATF	TAL EDI
Total/NA	Analysis	8081B		1	666613	01/06/20 15:52	JHP	TAL EDI
Total/NA	Prep	3510C			666395	01/03/20 15:39	ATF	TAL EDI
Total/NA	Analysis	8082A		1	666668	01/07/20 01:37	JHP	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 11:40	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:46	RBS	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Client Sample ID: OU-2-MW-33-123019
Lab Sample ID: 460-200012-4
Date Collected: 12/30/19 08:55
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 13:36	CJM	TAL EDI
Total/NA	Prep	3510C			666424	01/04/20 07:34	DXD	TAL EDI
Total/NA	Analysis	8270D		1	666470	01/04/20 21:05	YAH	TAL EDI
Total/NA	Prep	3510C			666393	01/03/20 15:33	ATF	TAL EDI
Total/NA	Analysis	8081B		1	666613	01/06/20 16:08	JHP	TAL EDI
Total/NA	Prep	3510C			666395	01/03/20 15:39	ATF	TAL EDI
Total/NA	Analysis	8082A		1	666668	01/07/20 01:54	JHP	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 11:43	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:47	RBS	TAL EDI

Client Sample ID: OU-3-MW-2-123119
Lab Sample ID: 460-200012-5
Date Collected: 12/31/19 13:10
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 11:45	MDC	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		10	667328	01/09/20 11:54	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:49	RBS	TAL EDI

Client Sample ID: OU-3-MW-4-123119
Lab Sample ID: 460-200012-6
Date Collected: 12/31/19 09:55
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 11:56	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:51	RBS	TAL EDI

Client Sample ID: OU-3-MW-14-123119
Lab Sample ID: 460-200012-7
Date Collected: 12/31/19 15:15
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 12:42	MDC	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		10	667328	01/09/20 12:54	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:53	RBS	TAL EDI

Lab Chronicle

Client: AKRF Inc
Job ID: 460-200012-1
Project/Site: Concord/Adelaar/EPR

Client Sample ID: TB-123119
Lab Sample ID: 460-200012-8
Date Collected: 12/31/19 00:00
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 11:04	CJM	TAL EDI

Client Sample ID: FB-123119
Lab Sample ID: 460-200012-9
Date Collected: 12/31/19 16:00
Matrix: Water
Date Received: 01/02/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666327	01/03/20 11:29	CJM	TAL EDI
Total/NA	Prep	3510C			666424	01/04/20 07:34	DXD	TAL EDI
Total/NA	Analysis	8270D		1	666470	01/04/20 21:26	YAH	TAL EDI
Total/NA	Prep	3510C			666393	01/03/20 15:33	ATF	TAL EDI
Total/NA	Analysis	8081B		1	666613	01/06/20 16:24	JHP	TAL EDI
Total/NA	Prep	3510C			666395	01/03/20 15:39	ATF	TAL EDI
Total/NA	Analysis	8082A		1	666668	01/07/20 02:11	JHP	TAL EDI
Total/NA	Prep	3010A			667216	01/09/20 04:45	GMC	TAL EDI
Total/NA	Analysis	6020B		2	667328	01/09/20 12:32	MDC	TAL EDI
Total/NA	Prep	7470A			666375	01/03/20 12:06	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666401	01/03/20 13:58	RBS	TAL EDI

Client Sample ID: OU-3-MW-18-010320
Lab Sample ID: 460-200140-1
Date Collected: 01/03/20 12:00
Matrix: Water
Date Received: 01/06/20 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			667466	01/09/20 23:35	GAE	TAL EDI
Total/NA	Analysis	6020B		2	667608	01/10/20 12:26	MDC	TAL EDI
Total/NA	Prep	7470A			666853	01/07/20 11:29	RBS	TAL EDI
Total/NA	Analysis	7470A		1	666887	01/07/20 14:13	RBS	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Job ID: 460-200012-1
Project/Site: Concord/Adelaar/EPR

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total

Method Summary

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: Concord/Adelaar/EPR

Job ID: 460-200012-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-200012-1	OU-2-MW-1-123019	Water	12/30/19 12:30	01/02/20 16:00	
460-200012-2	OU-2-MW-15-123019	Water	12/30/19 10:55	01/02/20 16:00	
460-200012-3	OU-2-MW-32-123019	Water	12/30/19 15:05	01/02/20 16:00	
460-200012-4	OU-2-MW-33-123019	Water	12/30/19 08:55	01/02/20 16:00	
460-200012-5	OU-3-MW-2-123119	Water	12/31/19 13:10	01/02/20 16:00	
460-200012-6	OU-3-MW-4-123119	Water	12/31/19 09:55	01/02/20 16:00	
460-200012-7	OU-3-MW-14-123119	Water	12/31/19 15:15	01/02/20 16:00	
460-200012-8	TB-123119	Water	12/31/19 00:00	01/02/20 16:00	
460-200012-9	FB-123119	Water	12/31/19 16:00	01/02/20 16:00	
460-200140-1	OU-3-MW-18-010320	Water	01/03/20 12:00	01/06/20 19:20	

Chain of Custody Record 410836

eurofins | Environment Testing TestAmerica

1/10/2020

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: TAL-8210

Client Contact	Project Manager: Ryan Zoroff	Site Contact: Steve Simard	Date: 12/31/19	COC No:
Company Name: AECOM, Inc.	Tel/Email: RZiroff@aecom.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 440 Park Ave S.	Analysis Turnaround Time			Sampler:
City/State/Zip: NY NY 10016	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 203-246-1560	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Concord / Adelaar / EPR				Job / SDG No.: 200012
Site:				
P O # 40376				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC	SVOC	PCB	Pest. 8260	Metals	Sample Specific Notes:
OU-2-MW-1-123019 ★	12/31/19	1230	G	GW	10		Y	X	X	X	X	X	1
OU-2-MW-15-123019	↓	1055	↓	↓	↓			X	X	X	X	X	2
OU-2-MW-32-123019		1505						X	X	X	X	X	3
OU-2-MW-33-123019		855						X	X	X	X	X	4
OU-3-MW-2-123119	12/31/19	1310			1							X	5
OU-3-MW-4-123119	↓	955	↓	↓	↓							X	6
OU-3-MW-14-123119	↓	1515	↓	↓	↓							X	7
TB-123119	12/31/19	—	G	Aq	2			X					8
FB-123119	12/31/19	1600	G	Aq	10			X	X	X	X	X	9

5-Day RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1 2 4

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Keep SDG open Part 375, Cat B ★ Perform MS/MSD on OU-2-MW-1-123019

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	1/2/20		TAL	1/2/20 13:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL	1/2/20 16:00		TAEdi	1/2/20 1600
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.1 2.2 3.1 3.4 TAT 4

460-200012 Chain of Custody

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 200012

Number of Coolers: 2 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.5 °C	2.8 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	3.1 °C	3.4 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2											
1MS				<2											
1DUP				<2											
2				<2											
3				<2											
4				<2											
5				<2											
6				<2											
7				<2											
9				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 1/2/20

Chain of Custody Record

410837 eurofins | Environment Testing TestAmerica

NYC

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210 2/10/2020

Client Contact	Project Manager: Bryan Zierdt	Site Contact: Steve Schmid	Date: 1/3/20	COC No:
Company Name: AICRF, Inc.	Tel/Email: bzierdt@aicrf.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 440 Park Ave S.	Analysis Turnaround Time			Sampler:
City/State/Zip: NY NY 10016	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 203-246-1566	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Concord / Adelaar / EPR	☑ 1 week			Job / SDG No.: 200140
Site:	☐ 2 days			
P O # 40376	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Metals	Sample Specific Notes:
OU3-MW-18-D10320	1/3/20	1200	G	GW	1			X	1

5-Day RUSH

460-200140 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Close SDG, Part 375, Cat B

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AICRF	1/6/20 @			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		1/6/20 1420		THRA	1/7/20 1920
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.6/2.9 IR#11

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 200140

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 ℃	2.9 ℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ **Date:** 1/16/20

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-200012-1

Login Number: 200012
List Number: 1
Creator: Jara, Kelly D

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-200012-1

Login Number: 200140
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	

APPENDIX C

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C353014**

Site Name Adelaar

Site Address: Concord Road Zip Code: 12751
City/Town: Kiamesha Lake
County: Sullivan
Site Acreage: 12.534

Reporting Period: April 28, 2019 to April 28, 2020

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	X	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C353014	**Box 3**
Description of Institutional Controls	

Parcel	Owner	Institutional Control
15-1-14.4	EPR Concord II, L.P.	

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

15-1-50.1	EPR Concord II, L.P.	

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

15-1-50.2	EPR Concord II, L.P.	

Ground Water Use Restriction
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The controlled property may be used for Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The controlled property is not to be used for Residential purposes as define in 6 NYCRR Part 375-1.8(g)(2)(i).

The use of groundwater beneath the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Sullivan County Department of Health, and prior written notification and

permission from the Department.

All future development of the controlled property must be conducted in accordance with the Department-approved Site Management Plan.

Reporting of required site monitoring to the Department as outlined in the Site Management Plan. This includes an annual site-wide inspection to assess basic site conditions; inspection of the cover system at OU-2; and groundwater monitoring at OU-2 and OU-3.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
15-1-14.4	Monitoring Wells
15-1-50.1	Cover System Monitoring Wells

A cover system is in place at OU-2 over the consolidated landfill area in the southern portion of the site. The cover system consists of a minimum 12 inches of clean soil placed over an orange demarcation layer. The cover system is in place only on a portion of tax lot 15-1-50.1.

15-1-50.2	Monitoring Wells

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C353014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Craig L. Evans (print name) at 909 Walnut, Suite 200, Kansas City, MO 64106 (print business address),

am certifying as Vice President of EPR TRS Holdings, Inc., general partner of EPR Concord II, L.P., Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

May 28, 2020
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Craig L. Evans (print name) at 909 Walnut., Suite 200, Kansas City, MO 64106 (print business address),

am certifying as a for the Vice President for EPR TRS Holdings, Inc., general partner of EPR Concord II, L.P. (Owner or Remedial Party)
Owner

Signature of , for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	May 28, 2020 Date