

28 September 2022

Michael Squire, Project Manager
NYS Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway, 11th Floor
Albany, NY 12233-7014

Subject: Accelerated Periodic Review Report, 1 July 2021 to 31 August 2022
Former Drive & Park, Inc. Site
Brownfield Cleanup Program #C314111
28 IBM Road, Poughkeepsie, New York

Dear Mr. Squire,

EKI Environment & Water, Inc. is pleased to submit this Accelerated Periodic Review Report for the above-referenced site on behalf of Antar Holdings Corp. in follow-up to our 14 September 2022 phone call regarding reduced monitoring.

Please contact me at (650) 292-9100 if you have any questions regarding this report.

Very truly yours,

EKI ENVIRONMENT & WATER, INC.



Robert W. Plybon, PE
Project Engineer

Attachments

Accelerated Periodic Review Report 01 July 2021 to 31 August 2022, Former Drive & Park, Inc. Site, Brownfield Cleanup Program #C314111, 28 IBM Road, Poughkeepsie, New York. EKI Environment & Water, Inc., dated September 2022.

cc: Steven Nesheiwat, Esq., Antar Holdings Corp.
Edward P. Conti, EKI Environment & Water, Inc.



Accelerated Periodic Review Report

01 July 2021 to 31 August 2022

**Former Drive & Park, Inc. Site
Brownfield Cleanup Program #C314111**

**28 IBM Road
Poughkeepsie, NY**

Prepared for:

**Antar Holdings Corp.
224 Church Street
Poughkeepsie, NY 12601**

**September 2022
EKI C20071.00**

ACCELERATED PERIODIC REVIEW REPORT
01 July 2021 to 31 August 2022
Former Drive & Park, Inc. Site
Brownfield Cleanup Program #C314111
 28 IBM Road
 Poughkeepsie, NY

Prepared for:
 Antar Holdings Corp.
 224 Church Street
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Table of Contents

1	EXECUTIVE SUMMARY	1
2	SITE OVERVIEW.....	3
2.1	Site Location and Description	3
2.2	Site History	3
2.3	Change of Ownership and Use	4
2.4	Remedial History	5
2.4.1	<i>Remedial Actions</i>	<i>5</i>
2.4.2	<i>Remaining Onsite Soil Contamination Following Remediation</i>	<i>5</i>
2.4.3	<i>Remedial Goals and Institutional and Engineering Controls</i>	<i>6</i>
3	REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS.....	8
3.1	Groundwater Monitoring	8
3.1.1	<i>Groundwater Sampling Procedures and Analytical Methods.....</i>	<i>8</i>
3.1.2	<i>Groundwater Analytical Results.....</i>	<i>9</i>
3.1.3	<i>Long-Term Groundwater Monitoring Trends.....</i>	<i>9</i>
4	CONCLUSIONS.....	11
5	REFERENCES.....	13

FIGURES

- Figure 1. Site Location Map
- Figure 2. Site Detail Map
- Figure 3. BTEX at MW-1, 1991 – 2021
- Figure 4. BTEX at MW-12, 1992 – 2021

TABLES

- Table 1. Monitoring Program Summary
- Table 2. Summary of Post-Excavation Chemical Analysis Results for Groundwater
- Table 3. Trend Analysis at MW-1
- Table 4. Trend Analysis at MW-12

LIST OF APPENDICES

- Appendix A. Laboratory Analytical Reports and Chain-of-Custody Records for Groundwater Samples
- Appendix B. Statistical Trend Analysis Methodology

1 EXECUTIVE SUMMARY

The site is located at 28 IBM Road in the Town of Poughkeepsie, New York and is the location of a gasoline release from an underground storage tank that was first reported in 1986. Impacted soil and groundwater were found to extend onto the adjacent property to the south of the site. The site was accepted into the Brownfield Cleanup Program in 2005, and impacted soil and groundwater were excavated from the site and the adjacent property to the south in 2005 and 2006. A Certificate of Completion for the site was issued in December 2010.

Conditions of the Certificate of Completion include execution and recording of an environmental easement to restrict land use and prevent future exposure to contamination remaining at the site, and implementation of a *Site Management Plan* (SMP; AMEC Geomatrix, 2010) for long-term management of remaining contamination.

This *Accelerated Periodic Review Report* covers the reporting period from 1 July 2021 to 31 August 2022. Previously, four periodic review reports have been submitted for the site, covering the 18-month period ending 30 June 2012 (Integral, 2012), the 36-month period ending 30 June 2015 (Integral, 2015), the 36-month period ending 30 June 2018 (EKI, 2018), and the 36-month period ending 30 June 2021 (2021 PRR; EKI, 2021).

During this accelerated reporting period, groundwater samples were collected on 26 August 2021 and 8 November 2021. The last SMP-required site inspection and groundwater sampling event was performed on 5 May 2021, as described in the 2021 PRR (EKI, 2021).

The results of site monitoring indicate that the requirements for groundwater monitoring in the SMP are satisfied and that groundwater monitoring can be discontinued. Additionally, at the conclusion of site remediation, the concentrations of benzene, toluene, ethylbenzene, and xylenes in onsite soil were not found to exceed their Cleanup Track 1 SCOs with only one exception, where the concentration of benzene was found to exceed its groundwater protection SCO in a soil sample collected on 5 August 2009. In this one case, the concentration of benzene detected was below the SCO for residential use (2.9 mg/kg), restricted residential use (4.8 mg/kg), commercial use (44 mg/kg), industrial use (89 mg/kg) and protection of ecological resources (70 mg/kg). Groundwater monitoring has shown that the concentrations of benzene in groundwater have declined substantially since 2009. In onsite wells MW-1, MW-201, and MW-203, benzene has not been detected at or above its analytical reporting limit since 2017, indicating that benzene concentrations in onsite soil no longer present a groundwater protection concern.

However, Antar will continue site monitoring, including groundwater monitoring and site cover system inspections, and reporting at the reduced scope and frequency described below:

- Groundwater monitoring, including measuring depth to groundwater and collecting samples for analysis, in the two wells where groundwater quality standards are still

occasionally exceeded (MW-1 and MW-12) will continue at a reduced frequency of once every 21 calendar quarters (i.e., 63 months).

- Site inspections, including inspections of the site cover system, will be performed at a reduced frequency of once every 21 calendar quarters.
- Period Review Reports will be prepared at a reduced frequency of once every 21 calendar quarters.
- Site certifications will be submitted at a reduced frequency of every 21 calendar quarters.

Groundwater monitoring will not continue at wells MW-201, MW-203, and MW-110. These wells, as well as wells MW-7, MW-103, MW-104, and MW-202, will be abandoned.

The next groundwater monitoring and site inspection event will occur in approximately August 2026. The results of site inspections and groundwater monitoring will be reported in the next routine PRR covering the period from 1 September 2022 to 30 September 2026, which will be submitted to NYSDEC by 15 November 2026. The next site certification will be submitted with the PRR at that time.

2 SITE OVERVIEW

2.1 Site Location and Description

The site is located at 28 IBM Road in the Town of Poughkeepsie, County of Dutchess, New York and is identified as Block 6060-4, Lot 903139, on the Poughkeepsie Tax Map. The approximately 2.7-acre site is bounded by IBM Road to the north, commercial property and a wetland to the south, commercial and residential properties to the east, and Barnegat Road to the west (see Figure 1 and Figure 2).

The site contains one two-story office building with several attached garage bays. On 28 March 2022, the site was purchased by Antar Holdings Corp. (Antar) and is currently vacant.

The site is mostly covered by the building and associated asphalt-paved parking areas. There are several small vegetated and/or landscaped areas along the perimeter and a wooded area at the southeast corner of the parcel (see Figure 2).

2.2 Site History

A Gulf gasoline service station was located at the north end of the site from approximately 1953 to 1973, at the intersection of IBM Road and Barnegat Road (Geomatrix, 2004a). Investigations conducted in the area of the former Gulf gasoline service station have not indicated soil and/or groundwater contamination resulting from operations conducted.

The site was used by Drive & Park, Inc. to rent cars from approximately 1965 until it was sold to Avis Rent A Car System, Inc. (Avis) in 1991. Drive & Park, Inc. operated two steel underground storage tanks (USTs) of unknown size from approximately 1965 to 1986. The tanks were removed in 1986 and a release of gasoline was reported to the New York State Department of Environmental Conservation (NYSDEC) by Drive & Park, Inc. (NYSDEC issued spill number 86-05706). In 1987, two 5,000-gallon USTs were installed in place of, and at the same location as, those removed in 1986.

At the time of the release, the site was owned by Broad Act Corporation and used by Drive & Park, Inc. Avis purchased the property in 1991, five years after the leaking UST system was removed.

Avis installed groundwater monitoring wells in 1992 and collected groundwater samples for analysis from the wells in 1992 and 1997. Analytical data for groundwater samples collected from the monitoring wells indicated that the release had extended onto the adjacent property to the south.

In 1998, the two USTs that were installed in 1987 were removed. The 1998 removal of the two USTs was witnessed by a NYSDEC representative, and it was determined that there was no evidence of a release from the gasoline USTs installed in 1987, although existing soil

contamination from the USTs removed in 1986 was observed. After removal of these USTs, NYSDEC closed spill number 86-05706, although Avis was not informed of the case closure. Avis continued to monitor the site.

In March 2003, Avis collected groundwater samples from eight existing monitoring wells on the site and from three monitoring wells on the adjacent property. Analytical results in groundwater were similar to previous sampling events conducted in 1992 and 1997. However, floating free product (gasoline) was found in one onsite monitoring well near the former USTs. Floating free product, other than sheen, had not been previously reported at the site.

Avis conducted high-vacuum extraction at the site from mid-April 2003 until September 2003 to recover floating free product from the impacted monitoring well. In September 2003, extraction was discontinued when measurable floating free product was no longer observed. The monitoring well was monitored at least semiannually between September 2003 and September 2005.

Upon discovery of the floating free product, Avis met with representatives from NYSDEC in September 2003 to discuss the status of the site. NYSDEC concurred with Avis that the contamination was related to the 1986 release, and therefore, reopened spill number 86-05706. Avis conducted a soil boring investigation in November 2003, and no areas of recoverable, floating free product were located. Avis collected discrete-depth groundwater samples on the adjacent property to the south to evaluate the extent of impacted groundwater. No floating free product was observed; however, one location contained dissolved petroleum constituents. Dissolved petroleum constituents were not found to extend below the building on the adjacent property. The results of the investigation were presented to NYSDEC in the *November 2003 Soil and Groundwater Investigation Report*, dated April 2004 (Geomatrix, 2004b).

Avis applied for entry to the Brownfield Cleanup Program in April 2004 and was accepted; a Brownfield Site Cleanup Agreement was executed in July 2005. Site closure under Cleanup Track 4 was achieved and a Certificate of Completion for the site was issued in December 2010. The site was purchased by Antar on 28 March 2022.

2.3 Change of Ownership and Use

The site was purchased by Antar on 28 March 2022. Antar intends to perform maintenance on above-ground site structures before leasing portions of the site to multiple commercial tenants, including potentially to an automobile rental agency to rent, store, and wash automobiles. Antar does not anticipate that any underground site improvements will be necessary during the planned site maintenance.

2.4 Remedial History

2.4.1 Remedial Actions

The site was remediated in accordance with the NYSDEC-approved *Interim Remedial Measure Work Plan* dated November 2005 (Geomatrix, 2005). The following is a summary of the remedial actions performed at the site:

- Removal of floating free product from the surface of the water table in the area of the former Drive & Park, Inc. USTs using high vacuum extraction;
- Excavation of approximately 23,900 tons of soil exceeding unrestricted-use soil cleanup objectives, to depths ranging from approximately 8 to 15 feet (ft) below ground surface (bgs);
- Construction and maintenance of a site cover system consisting of at least 3 ft of clean soil or an impermeable surface to prevent human exposure to remaining contaminated soil at the site;
- Extraction and treatment of approximately 622,452 gallons of groundwater during excavation activities;
- Placement of oxygen releasing compound in backfill material to enhance biodegradation of remaining petroleum hydrocarbons;
- Restoration of the site and neighboring property with clean backfill, landscaping, and asphalt to pre-excavation conditions;
- Execution and recording of an environmental easement to restrict land use and prevent future exposure to contamination remaining at the site, and;
- Development and implementation of a *Site Management Plan* (SMP; AMEC Geomatrix, 2010) for long-term management of remaining contamination as required by the environmental easement, which includes plans for 1) institutional and engineering controls, 2) monitoring, and 3) reporting.

Remedial activities were completed from April to September 2003 (free product removal), and December 2005 through June 2006 (excavation, groundwater extraction, oxygen releasing compound placement, construction of the soil and asphalt components of the site cover system, and restoration).

2.4.2 Remaining Onsite Soil Contamination Following Remediation

Following the conclusion of site remediation described in Section 2.4.1, benzene was detected in soil onsite at a concentration above the Cleanup Track 1 (unrestricted use) soil cleanup objective

(SCO) in one sample collected on 5 August 2009 (see Section 1.4.3 of AMEC Geomatrix, 2010), as described below:

- Soil containing a concentration of benzene (0.092 milligrams per kilogram [mg/kg]) above the SCO for groundwater protection (0.060 mg/kg) remained onsite in one location at the bottom of the former excavation at a depth of approximately 12 to 14 feet below ground surface. The concentration of benzene detected was below the SCO for residential use (2.9 mg/kg), restricted residential use (4.8 mg/kg), commercial use (44 mg/kg), industrial use (89 mg/kg) and protection of ecological resources (70 mg/kg).

Concentrations of benzene, toluene, ethylbenzene, and xylenes exceeding the Cleanup Track 1 SCOs were not found in any other soil samples onsite.

2.4.3 Remedial Goals and Institutional and Engineering Controls

The remediation goals for the site are to prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards and to prevent human exposure to contaminants remaining in soil. To achieve these goals, the following institutional and engineering controls were established:

Institutional Controls

- Compliance with an environmental easement and the SMP by the grantor and the grantor's successors and assigns. The environmental easement requires that the grantor and the grantor's successors and assigns comply with the conditions of the SMP; the SMP included the following restrictions:
 - The property may only be used for commercial/industrial use provided that the long-term engineering and institutional controls included in the SMP are employed.
 - All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP.
 - The use of groundwater underlying the property is prohibited without treatment rendering it safe for the intended use.
 - The property may not be used for a higher level of use such as unrestricted use or restricted residential use without additional investigation, and possibly remediation, and amendment of the Environmental Easement, as approved by NYSDEC.
 - Vegetable gardens and farming on the property are prohibited.
 - The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that 1) controls employed at the controlled property are unchanged from the previous certification or that any changes to the controls were approved by NYSDEC; and, 2) nothing has occurred that impairs the ability of the controls to protect public health and the environment or that

constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such controlled property at any time to evaluate the continued maintenance of any and all controls. This certification shall be submitted every 3 years, or in an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

- All engineering controls must be operated and maintained as specified in the SMP.
- All engineering controls on the site must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to management of the site must be reported at the frequency and in a manner defined in the SMP.

Engineering Controls

- **Site Cover System**—Exposure to remaining contamination in soil/fill at the site is prevented by a cover system placed over the site. Concentrations of contaminants in soil do not exceed soil cleanup objectives for residential, restricted residential, commercial, or industrial uses, or for the protection of ecological resources; the concentration of benzene in only one soil sample exceeded the soil cleanup objective for protection of groundwater. This site cover system is composed of a minimum of 3 ft of clean soil in the area of the interim remedial investigation, a concrete slab beneath the building, and asphalt pavement in the parking area.
- **Monitored Natural Attenuation**—Groundwater quality is monitored at selected existing onsite and offsite monitoring wells to evaluate the natural attenuation of residual benzene, toluene, ethylbenzene, and total xylenes.

The current monitoring program is summarized in Table 1. Proposed changes to institutional and engineering controls are described in Section 4.

3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The site remedy is described in Section 2.3. Accelerated groundwater monitoring beyond the requirements of the SMP was performed twice during the reporting period to further evaluate conditions in groundwater. The findings of the accelerated groundwater monitoring are summarized below:

- Concentrations of contaminants in onsite and offsite groundwater monitoring wells are stable and are either below NYSDEC standards or have become asymptotic; and
- No free product was observed in onsite or offsite monitoring wells.

This *Accelerated Periodic Review Report* covers the reporting period from 1 July 2021 to 31 August 2022. Previously, four periodic review reports have been submitted for the site, covering the 18-month period ending 30 June 2012 (Integral, 2012), the 36-month period ending 30 June 2015 (Integral, 2015), the 36-month period ending 30 June 2018 (EKI, 2018), and the 36-month period ending 30 June 2021 (2021 PRR; EKI, 2021).

3.1 Groundwater Monitoring

3.1.1 Groundwater Sampling Procedures and Analytical Methods

Groundwater samples were collected from onsite monitoring wells MW-1, MW-201, and MW-203, and offsite monitoring wells MW-12 and MW-110. Monitoring well locations are shown in Figure 2. Groundwater samples were collected from the monitoring wells on 26 August 2021 and 8 November 2021.

Before samples were collected, depth-to-water was measured using an electronic water level meter. Each well was then purged using a peristaltic pump with a short (approximately 1-foot) section of new silicone tubing¹ connected to new polyethylene down-hole tubing. During purging, purge water was inspected visually and field parameters (temperature, pH, dissolved oxygen, oxidation reduction potential, and conductivity) were measured using a calibrated YSI 600 XLM water quality meter equipped with a flow-through cell and recorded. After the field parameters stabilized, groundwater samples were collected by slowly pumping groundwater through the new tubing into laboratory-supplied sample containers. Well MW-110 went dry during purging and was allowed to recharge to at least 80 percent of its initial water volume before sampling. The groundwater samples were labeled and stored temporarily in chilled ice chests for transport under chain-of-custody procedures to Eurofins TestAmerica of Amherst,

¹ The 2021 PRR (EKI, 2021) incorrectly stated that each well was purged and sampled using a peristaltic pump with new Teflon-lined Tygon tubing and new polyethylene tubing during February 2020 and May 2021 sampling events; instead, a short (approximately 1-foot) section of new silicone tubing connected to new polyethylene down-hole tubing was used during those sampling events.

New York, a New York State Department of Health-certified analytical laboratory. Copies of the laboratory analytical reports and chain-of-custody records are included in Appendix A.

Groundwater samples collected from the five monitoring wells were analyzed for benzene, toluene, ethylbenzene, and total xylenes using U.S. Environmental Protection Agency (U.S. EPA) Method 8260C.

3.1.2 Groundwater Analytical Results

Benzene, toluene, ethylbenzene, and/or xylenes were detected in samples collected from two of the five monitoring wells sampled during the reporting period (MW-1 and MW-12). A summary of the post-excavation chemical analysis results for benzene, toluene, ethylbenzene, and total xylenes in the sampled monitoring wells is presented in Table 2.

Benzene was detected above the NYSDEC groundwater quality standard in the sample collected from well MW-12 in August 2021. Benzene was not detected at or above the laboratory reporting limit² in the groundwater samples from MW-1, MW-110, MW-201, or MW-203 during the reporting period and also was not detected in the sample collected from MW-12 in November 2021.

Toluene was detected below the NYSDEC groundwater quality standard in the sample collected from well MW-12 in August 2021. Toluene was not detected at or above the laboratory reporting limit in the groundwater samples from MW-1, MW-110, MW-201, or MW-203 during the reporting period and also was not detected in the sample collected from MW-12 in November 2021.

Ethylbenzene was detected above the NYSDEC groundwater quality standard in the samples collected from well MW-1 in November 2021 and MW-12 in August 2021. Ethylbenzene was detected above the laboratory reporting limit but below the NYSDEC groundwater quality standard in the sample collected from MW-12 in November 2021. Ethylbenzene was not detected at or above the laboratory reporting limit in the groundwater samples from MW-110, MW-201, or MW-203 during the reporting period.

Total xylenes were detected above the NYSDEC groundwater quality standard at MW-1 in the November 2021 sampling event and below the NYSDEC groundwater quality standard at MW-12 in the August 2021 sampling event. Total xylenes were not detected at or above the laboratory reporting limit in the groundwater samples from MW-110, MW-201, or MW-203 during the reporting period and also were not detected in the samples collected from MW-1 in August 2021 and from MW-12 in November 2021.

3.1.3 Long-Term Groundwater Monitoring Trends

Groundwater monitoring has occurred at well MW-1 since 1991 and well MW-12 since 1992. Wells MW-110, MW-201, and MW-203, which were installed after wells MW-1 and MW-12,

² The laboratory method detection limit is reported for benzene non-detections in samples collected from monitoring well MW-1 during the reporting period due to elevated laboratory reporting limits for those samples.

have been monitored since 2005 (MW-110) and 2006 (MW-201 and MW-203). Groundwater monitoring results since 2006 are shown in Table 2; prior data were summarized in the *Remedial Investigation and Interim Remedial Measure Implementation Report* (Geomatrix, 2007).

In the last four samples collected since October 2018 (i.e., samples collected in February 2020, May 2021, August 2021, and November 2021, covering all four seasons of Winter, Spring, Summer, and Autumn), concentrations of benzene, toluene, ethylbenzene, or total xylenes have only been found to exceed NYSDEC groundwater quality standards in wells MW-1 and MW-12. Long term concentrations of benzene, toluene, ethylbenzene, and total xylenes at monitoring wells MW-1 and MW-12 are plotted on Figure 3 and Figure 4, respectively. To aid in data visualization, the y-axes of Figure 3 and Figure 4 are shown in log-scale.

Concentrations of benzene, toluene, ethylbenzene, and total xylenes at MW-1 and MW-12 decreased significantly following completion of remediation in 2006. For example, prior to remediation the maximum concentration of total xylenes at MW-1 was 5,300 micrograms per liter (ug/L) in May 1992 (Geomatrix, 2007) and has since declined to 12 ug/L as of November 2021. Similarly, prior to remediation the maximum concentration of total xylenes at MW-12 was 2,970 ug/L in November 2003 (Geomatrix, 2007) and has since declined below the reporting limit (<4.0 ug/L) as of November 2021. Similar order of magnitude decreases have occurred for concentrations of benzene, ethylbenzene, and toluene at wells MW-1 and MW-12.

To determine whether concentrations of benzene, ethylbenzene, toluene, and total xylenes are continuing to decrease, trend analysis is performed using the Mann-Kendall statistical trend analysis methodology, which is described in Appendix B. Trends at wells MW-1 and MW-12 are calculated for analytes that have been detected in the last four samples collected at each well. The statistical trend analyses are presented in Table 3 (ethylbenzene and xylenes at MW-1) and Table 4 (benzene, toluene, ethylbenzene, and xylenes at MW-12). In each table, the chemical concentrations measured in groundwater samples collected from individual wells since 2006 are listed, based on data presented in Table 2. The last 10 data points for each data set (spanning ten years of data) are used in the statistical analysis to assess recent trends for evaluating the progress of natural attenuation, as described in Appendix B.

As shown in Table 3 and Table 4, no statistically significant trends are observed for any of the analytes or either of the wells where trend analysis was performed, indicating that concentrations of the analytes detected at MW-1 and MW-12 in the last four sampling events have reached asymptotic conditions.

4 CONCLUSIONS

As of August 2022, the concentrations of benzene, toluene, ethylbenzene, and total xylenes either did not exceed their NYSDEC groundwater quality standards, or were asymptotic at concentrations near their NYSDEC groundwater quality standards, in samples collected from the five wells used for groundwater monitoring. The SMP states the following:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. (AMEC Geomatrix, 2010)

The results of site monitoring indicate that the requirements for groundwater monitoring in the SMP are satisfied and that groundwater monitoring can be discontinued.

Additionally, at the conclusion of site remediation, the concentrations of benzene, toluene, ethylbenzene, and xylenes in onsite soil were not found to exceed their Cleanup Track 1 SCOs with only one exception (see Section 2.4.2), where the concentration of benzene was found to exceed its groundwater protection SCO in a soil sample collected on 5 August 2009. In this one case, the concentration of benzene detected was below the SCO for residential use (2.9 mg/kg), restricted residential use (4.8 mg/kg), commercial use (44 mg/kg), industrial use (89 mg/kg) and protection of ecological resources (70 mg/kg). Groundwater monitoring has shown that the concentrations of benzene in groundwater have declined substantially since 2009. In onsite wells MW-1, MW-201, and MW-203, benzene has not been detected at or above its analytical reporting limit since 2017, indicating that benzene concentrations in onsite soil no longer present a groundwater protection concern.

However, Antar will continue site monitoring, including groundwater monitoring and site cover system monitoring, and reporting at the reduced scope and frequency described below and in Table 1:

- Groundwater monitoring, including measuring depth to groundwater and collecting samples for analysis, in the two wells where groundwater quality standards are still occasionally exceeded (MW-1 and MW-12) will continue at a reduced frequency of once every 21 calendar quarters (i.e., 63 months).
- Site inspections, including inspections of the site cover system, will be performed at a reduced frequency of once every 21 calendar quarters.
- Period Review Reports will be prepared at a reduced frequency of once every 21 calendar quarters.
- Site certifications will be submitted at a reduced frequency of 21 calendar quarters.

Groundwater monitoring will not continue at wells MW-201, MW-203, and MW-110. These wells, as well as wells MW-7, MW-103, MW-104, and MW-202, will be abandoned.

The next groundwater monitoring and site inspection event will occur in approximately August 2026. The results of site inspections and groundwater monitoring will be reported in the next routine PRR covering the period from 1 September 2022 to 30 September 2026, which will be submitted to NYSDEC by 15 November 2026. The next site certification will be submitted with the PRR at that time.



5 REFERENCES

AMEC Geomatrix, 2010. *Site Management Plan, Former Drive & Park, Inc. Site*, AMEC Geomatrix, Inc., dated 28 December 2010.

EKI, 2018. *Periodic Review Report, 01 July 2015 to 30 June 2018 Former Drive & Park, Inc. Site, Brownfield Cleanup Program #C314111, 28 IBM Road, Poughkeepsie, New York*. EKl Environment & Water, Inc., Burlingame, CA, dated August 2018.

EKI, 2021. *Periodic Review Report, 01 July 2018 to 30 June 2021 Former Drive & Park, Inc. Site, Brownfield Cleanup Program #C314111, 28 IBM Road, Poughkeepsie, New York*. EKl Environment & Water, Inc., Burlingame, CA, dated August 2021.

Geomatrix, 2004a. *Brownfield Cleanup Program Application, Former Drive & Park, Inc. Site*, Geomatrix Consultants, Inc., dated 20 April 2004.

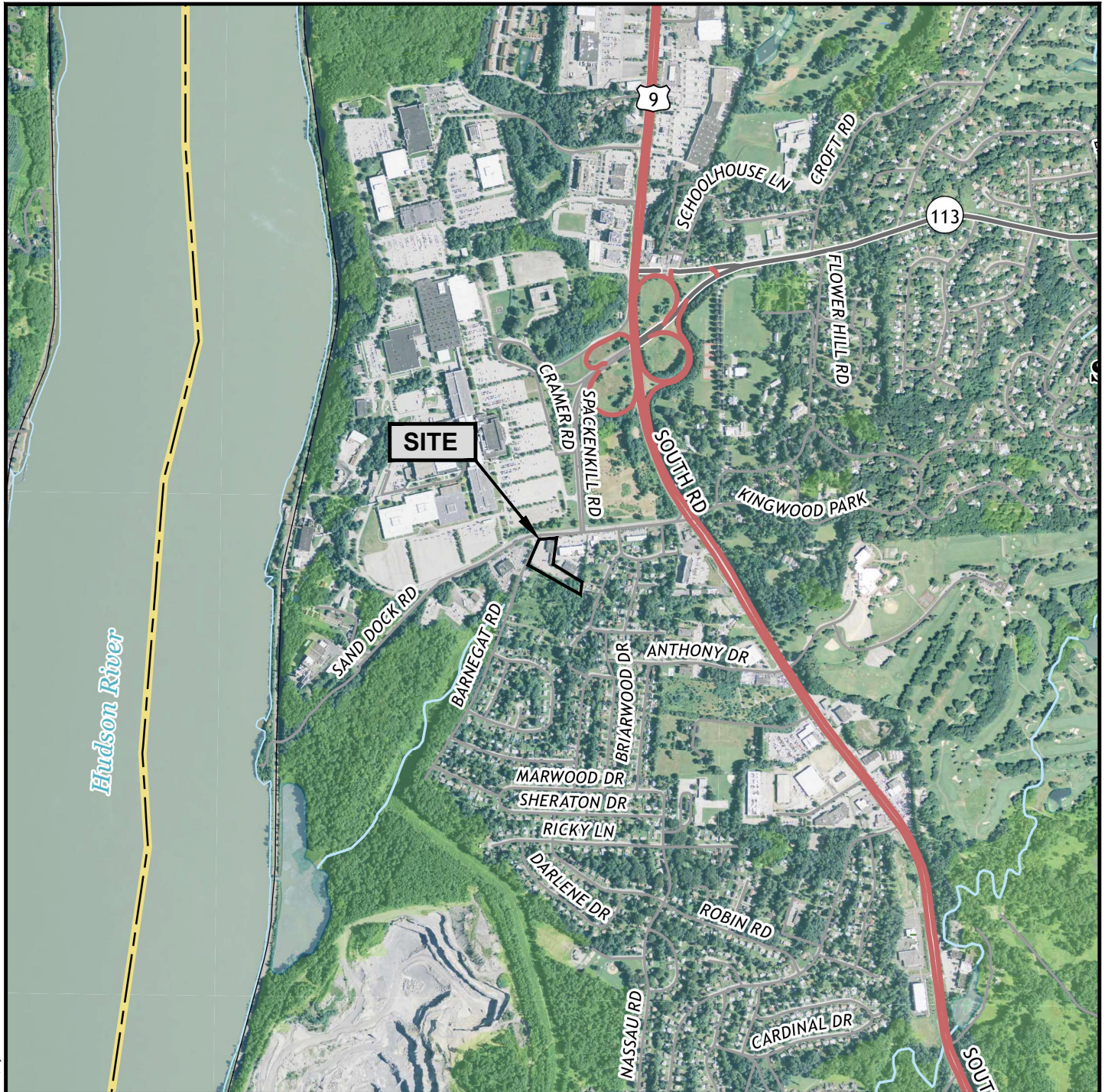
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Geomatrix, 2005. *Interim Remedial Measure Work Plan*, Geomatrix Consultants, Inc., dated November 2005.

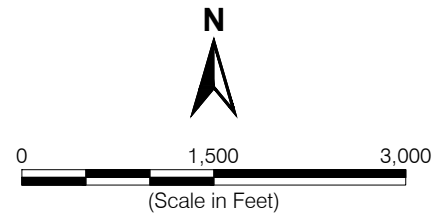
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Integral, 2015. *Periodic Review Report, July 1, 2012, to June 30, 2015, Former Drive & Park, Inc. Site, Brownfield Cleanup Program #C314111, 28 IBM Road, Poughkeepsie, New York*, Integral Consulting Inc., Larkspur, CA, dated August 2015.



Basemap source: U.S.G.S. GeoPDF, Poughkeepsie, NY, 2016.



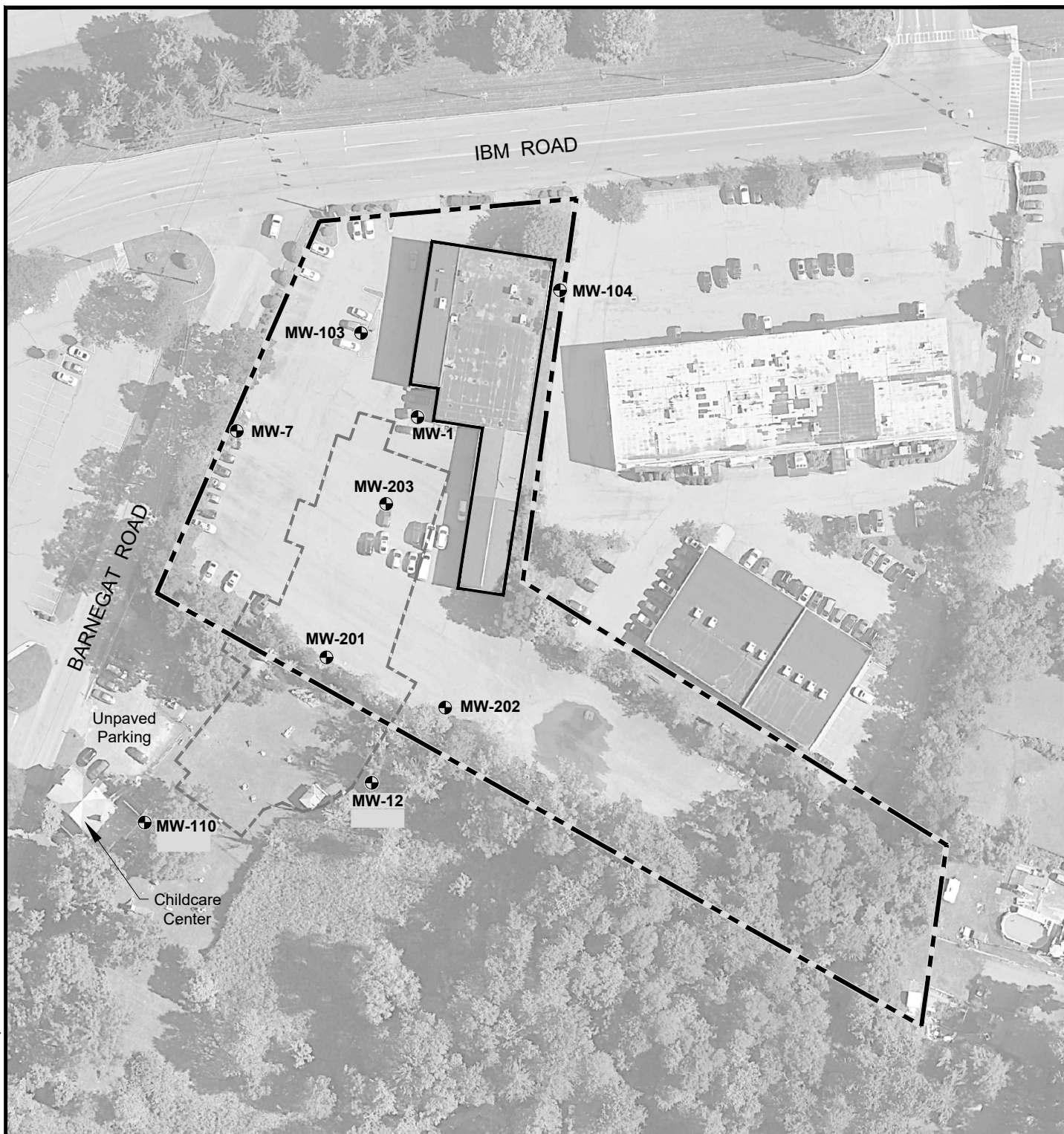
Site Location Map

eki environment
& water





28 IBM Road
Poughkeepsie, New York
September 2022
EKI C20071.00

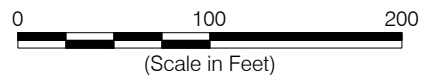
Figure 1

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Legend:

-  Approximate Site Boundary
-  Site Facility
-  Approximate Extent of Excavation
-  Groundwater Monitoring Well Location



Site Detail Map

Notes:

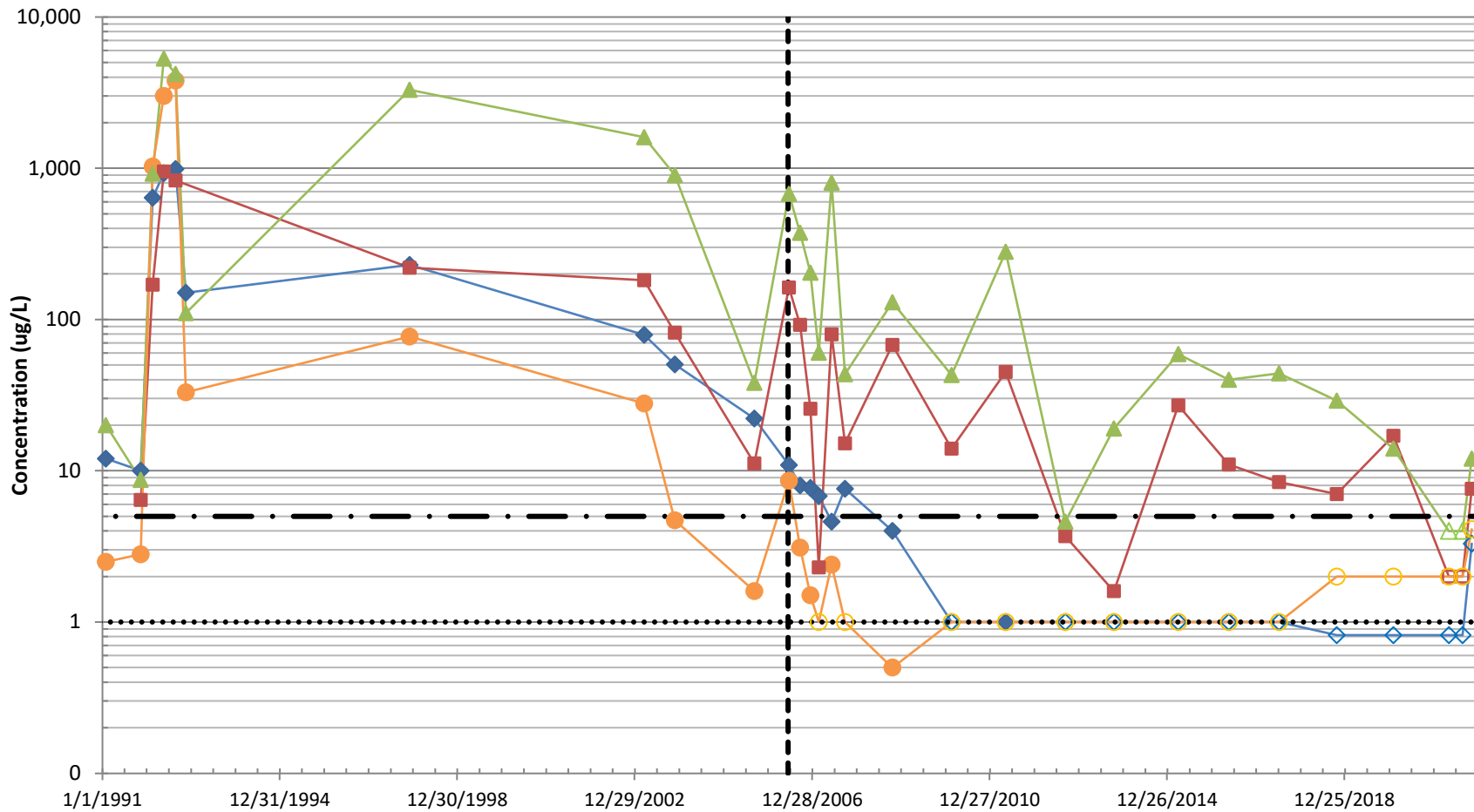
1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 18 September 2019.



28 IBM Road
Poughkeepsie, New York
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EKI C20071.00

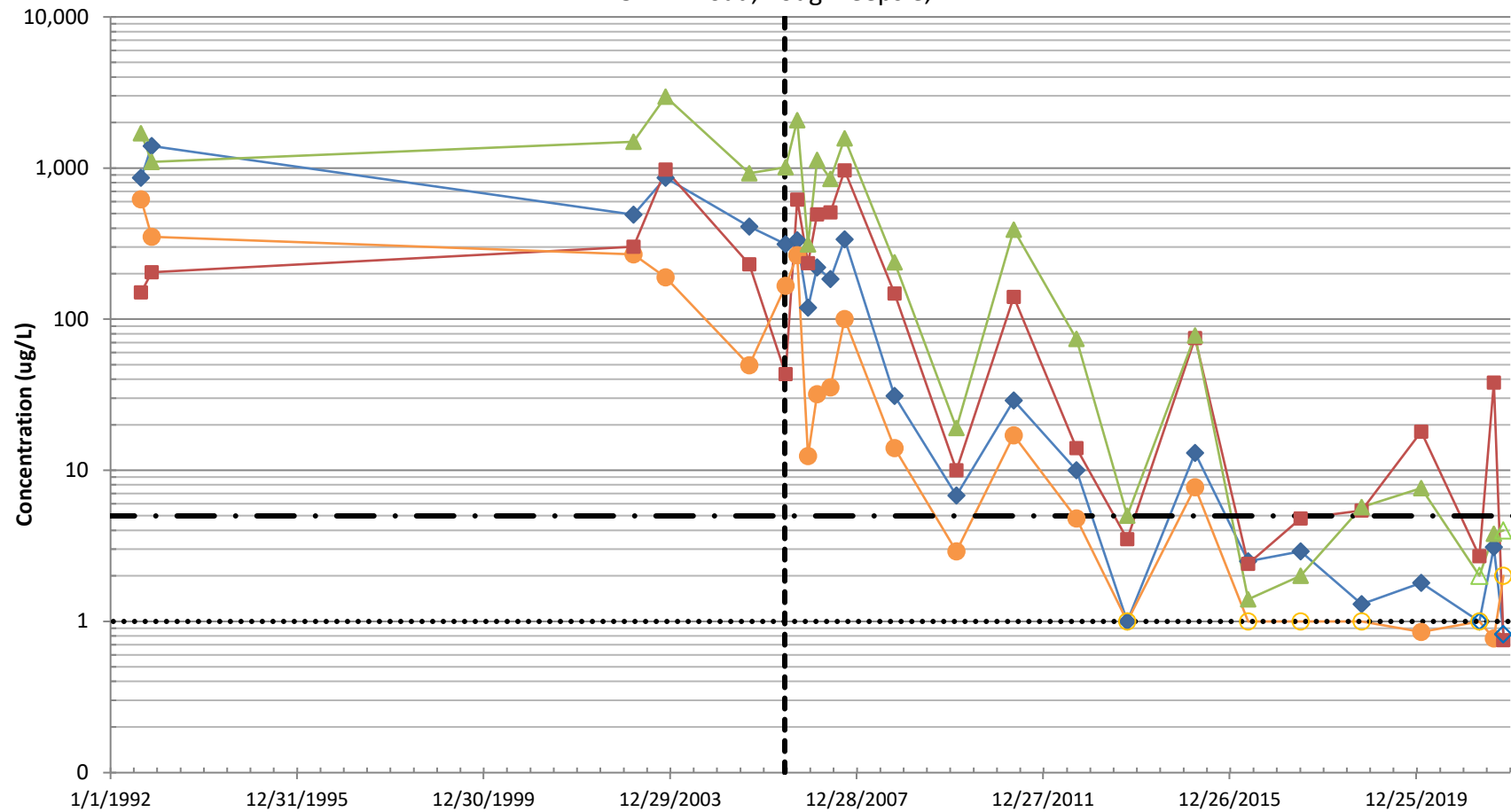
Figure 2

Figure 3
BTEX at MW-1, 1991-2021
 Former Drive & Park, Inc. Site
 28 IBM Road, Poughkeepsie, NY



Notes:
 a. Non-detected analytes are plotted at their laboratory reporting limits.
 Laboratory reporting limits are not known for ethylbenzene non-detect results from samples collected on 1/31/1991 and 11/18/1992. Those results are therefore not plotted.

Figure 4
BTEX at MW-12, 1992-2021
 Former Drive & Park, Inc. Site
 28 IBM Road, Poughkeepsie, NY



Notes:

- a. Where duplicate samples were collected, results from the duplicate sample with the highest detected concentration is shown.
- b. Non-detected analytes are plotted at their laboratory reporting limits.

- ◆ Benzene Detections
- Ethylbenzene Detections
- ◇ Benzene Non-Detects
- △ Xylene Non-Detects
- Water Quality Standard (Benzene)
- Toluene Detections
- Toluene Non-Detects
- Completion of Remediation
- • Water Quality Standard (Toluene, Ethylbenzene, Xylenes)

Table 1
Monitoring Program Summary
Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Monitoring Program	Current Frequency	Requested Frequency	Current Matrix	Requested Matrix	Analysis
Groundwater Monitoring Program	Every five calendar quarters	Every 21 calendar quarters	Groundwater in three onsite wells (MW-1, MW-201 and MW-203) and two offsite wells (MW-12 and MW-110) Water level measurements in all site-related wells	Groundwater in one onsite well (MW-1) and one offsite well (MW-12) Water level measurements in wells MW-1 and MW-12	Benzene, toluene, ethylbenzene, and total xylenes Depth to Water
Cover System Monitoring	Every five calendar quarters	Every 21 calendar quarters	Inspect Cover System		

Table 2
Summary of Post-excavation Chemical Analysis Results for Groundwater

Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Well ID	Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-1	MW-1-062106	06/21/06	<u>10.9</u>	<u>8.6 J</u>	<u>163</u>	<u>676</u>
	MW-1-092206	09/22/06	<u>8</u>	<u>3.1</u>	<u>92.3</u>	<u>374</u>
	MW-1-121506	12/15/06	<u>7.7</u>	<u>1.5</u>	<u>25.7</u>	<u>204</u>
	MW-1-022207	02/22/07	<u>6.8</u>	<1.0	<u>2.3</u>	<u>60.3</u>
	MW-1-060707	06/07/07	<u>4.6</u>	<u>2.4</u>	<u>79.7</u>	<u>804</u>
	MW-1-092707	09/27/07	<u>7.6</u>	<1.0	<u>15.2</u>	<u>43.5</u>
	MW-1-102108	10/21/08	<u>4 J</u>	<u>0.5 J</u>	<u>68 J</u>	<u>130 J</u>
	MW-1-021810	02/18/10	<1.0	<1.0	<u>14</u>	<u>43</u>
	MW-1-051111	05/11/11	<u>1.0</u>	<1.0	<u>45</u>	<u>280</u>
	MW-1-091312	09/13/12	<1.0	<1.0	<u>3.7</u>	<u>4.6</u>
	MW-1-101713	10/17/13	<1.0	<1.0	<u>1.6</u>	<u>19</u>
	MW-1-033115	03/31/15	<1.0	<1.0	<u>27</u>	<u>59</u>
	MW-1	05/19/16	<1.0	<1.0	<u>11</u>	<u>40</u>
	MW-1-070617	07/06/17	<1.0	<1.0	<u>8.4</u>	<u>44</u>
	MW-1-102518	10/25/18	<0.82 ^b	<2.0	<u>7</u>	<u>29</u>
	MW-1-020320	02/03/20	<0.82 ^b	<2.0	<u>17</u>	<u>14</u>
	MW-1-050521	05/05/21	<0.82 ^b	<2.0	<2.0	<4.0
	MW-1-082621 ^c	08/26/21	<0.82 J ^b	<2.0 J	<2.0 J	<4.0 J
	MW-1-110821	11/08/21	<3.3 ^b	<4.1 ^b	<u>7.6 J</u>	<u>12 J</u>
MW-12	MW-12-062106 / DUP ^d	06/21/06	<u>313</u>	<u>166 J</u>	<u>43.2</u>	<u>1,010</u>
	MW-12-092106 / DUP ^d	09/21/06	<u>333</u>	<u>265</u>	<u>618</u>	<u>1,820</u>
	MW-12-121406 / DUP ^d	12/14/06	<u>119</u>	<u>12.4</u>	<u>235</u>	<u>312</u>
	MW-12-022207 / DUP ^d	02/22/07	<u>220 J</u>	<u>31.8</u>	<u>493 J</u>	<u>1,130 J</u>
	MW-12-060707 / DUP ^d	06/07/07	<u>184</u>	<u>35.3</u>	<u>509</u>	<u>846</u>
	MW-12-027707 / DUP ^d	09/27/07	<u>337</u>	<u>99.9</u>	<u>963</u>	<u>1,570</u>
	MW-12-102108 / DUP ^d	10/21/08	<u>31 J</u>	<u>14 J</u>	<u>148 J</u>	<u>238 J</u>
	MW-12-021810 / DUP ^d	02/18/10	<u>6.8</u>	<u>2.9</u>	<u>10</u>	<u>19</u>
	MW-12-051211/DUP ^d	05/11/11	<u>29</u>	<u>17</u>	<u>140</u>	<u>390</u>
	MW-12-091312/DUP ^d	09/13/12	<u>10</u>	<u>4.8 J</u>	<u>14</u>	<u>74</u>
	MW-12-101713/DUP ^d	10/17/13	<u>1.0</u>	<1.0	<u>3.5</u>	<u>5.0</u>
	MW-12-033115/DUP ^d	03/31/15	<u>13.0</u>	<u>7.7</u>	<u>75</u>	<u>78</u>
	MW-12/DUP ^d	05/19/16	<u>2.5</u>	<1.0	<u>2.4</u>	<u>1.4 J</u>
	MW-12-070617/DUP ^d	07/06/17	<u>2.9</u>	<1.0	<u>4.8</u>	<u>2.0</u>
	MW-12-102518/DUP ^d	10/25/18	<u>1.3</u>	<1.0	<u>5.4</u>	<u>5.7</u>
	MW-12-020320/DUP ^d	02/03/20	<u>1.8</u>	<u>0.85 J</u>	<u>18</u>	<u>7.6</u>
	MW-12-050521/DUP ^d	05/05/21	<1.0	<1.0	<u>2.7</u>	<2.0
	MW-12-082621/DUP ^{c, d}	08/26/21	<u>3.1 J</u>	<u>0.77 J</u>	<u>38 J</u>	<u>3.8 J</u>
	MW-12-110821/DUP ^d	11/08/21	<0.82 ^b	<2.0	<u>0.75 J</u>	<4.0
MW-110	MW-110-062106	06/21/06	<1.0	<1.0 UJ	<1.0	<3.0
	MW-110-092106	09/21/06	<1.0	<1.0	<1.0	<3.0
	MW-110-121406	12/14/06	<1.0	<1.0	<1.0	<3.0
	MW-110-022207	02/22/07	<1.0	<1.0	<1.0	<3.0
	MW-110-060707	06/07/07	<1.0	<1.0	<1.0	<3.0
	MW-110-092707	09/27/07	<1.0	<1.0	<1.0	<3.0
	MW-110-102108	10/21/08	<1	<1	<1	<2
	MW-110-021810	02/18/10	<1.0	<1.0	<1.0	<2.0
	MW-110-051111	05/11/11	<1.0	<1.0	<1.0	<2.0
	MW-110-091312	09/13/12	<1.0	<1.0	<1.0	<2.0
	MW-110-101713	10/17/13	<1.0	<1.0	<1.0	<2.0
	MW-110-033115	03/31/15	<1.0	<1.0	<1.0	<2.0
	MW-110	05/19/16	<1.0	<1.0	<1.0	<2.0
	MW-110-070617	07/06/17	<1.0	<1.0	<1.0	<2.0
	MW-110-102518	10/25/18	<1.0	<1.0	<1.0	<2.0
	MW-110-020320	02/03/20	<1.0	<1.0	<1.0	<2.0
	MW-110-050521	05/05/21	<1.0	<1.0	<1.0	<2.0
	MW-110-082621 ^c	08/26/21	<1.0 J	<1.0 J	<1.0 J	<2.0 J
	MW-110-110821	11/08/21	<1.0	<1.0	<1.0	<2.0

Table 2
Summary of Post-excavation Chemical Analysis Results for Groundwater

Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Well ID	Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-201	MW-201-062106	06/21/06	8.7	<1.0 UJ	<1.0	<3.0
	MW-201-092106	09/21/06	<1.0	<1.0	<1.0	<3.0
	MW-201-121406	12/14/06	<1.0	<1.0	<1.0	<3.0
	MW-201-022307	02/23/07	<1.0	<1.0	<1.0	<3.0
	MW-201-060607	06/06/07	<1.0	<1.0	<1.0	<3.0
	MW-201-092607	09/26/07	<1.0	<1.0	<1.0	<3.0
	MW-201-102108	10/21/08	<1	<1	<1	<2
	MW-201-021810	02/18/10	<1.0	<1.0	<1.0	<2.0
	MW-201-051111	05/11/11	<1.0	<1.0	<1.0	<2.0
	MW-201-091312	09/13/12	<1.0	<1.0	<1.0	<2.0
	MW-201-101713	10/17/13	<1.0	<1.0	<1.0	<2.0
	MW-201-033115	03/31/15	<1.0	<1.0	<1.0	<2.0
	MW-201	05/19/16	<1.0	<1.0	<1.0	<2.0
	MW-201-070617	07/06/17	<1.0	<1.0	<1.0	<2.0
	MW-201-102518	10/25/18	<2.0	<2.0	<2.0	<4.0
	MW-201-020320	02/03/20	<1.0	<1.0	<1.0	<2.0
	MW-201-050521	05/05/21	<1.0	<1.0	<1.0	<2.0
	MW-201-082621 ^c	08/26/21	<1.0 J	<1.0 J	<1.0 J	<2.0 J
	MW-201-110821	11/08/21	<1.0	<1.0	<1.0	<2.0
MW-203	MW-203-062106	06/21/06	3.1	<1.0 UJ	<1.0	9.6
	MW-203-092106	09/21/06	73.9	<1.0	<1.0	<3.0
	MW-203-121406	12/14/06	88.4	<1.0	5.0	9.4
	MW-203-022207	02/22/07	94.8	<1.0	14	18.2
	MW-203-060707	06/07/07	46.8	2.4	16.4	12.4
	MW-203-092707	09/27/07	60.5	1.4	65.2	<3.0
	MW-203-102108	10/21/08	97 J	<3	2 J	3 J
	MW-203-021810	02/18/10	27	<1.0	<1.0	<2.0
	MW-203-051111	05/11/11	25	1.7	120	26
	MW-203-091312	09/13/12	<1.0	<1.0	<1.0	<2.0
	MW-203-101713	10/17/13	<1.0	<1.0	<1.0	<2.0
	MW-203-033115	03/31/15	5.8	0.53 J	<1.0	<2.0
	MW-203	05/19/16	<1.0	<1.0	<1.0	<2.0
	MW-203-070617	07/06/17	5.0	<1.0	<1.0	<2.0
	MW-203-102518	10/25/18	<1.0	<1.0	<1.0	<2.0
	MW-203-020320	02/03/20	<1.0	<1.0	<1.0	<2.0
	MW-203-050521	05/05/21	<1.0	<1.0	<1.0	<2.0
	MW-203-082621 ^c	08/26/21	<1.0 J	<1.0 J	<1.0 J	<2.0 J
	MW-203-110821	11/08/21	<1.0	<1.0	<1.0	<2.0
NYSDEC Groundwater Quality Standard ^d			1	5	5	5

Table 2
Summary of Post-excavation Chemical Analysis Results for Groundwater

Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Notes:

µg/L = micrograms per liter

bold = detected concentration

bold underlined = detected concentration exceeds water quality standard

< = compound was not detected at or above the laboratory reporting limit indicated

J = estimated

NYSDEC = New York State Department of Environmental Conservation

UJ = The analyte was not detected at or above the laboratory reporting limit shown. The reporting limit is estimated.

^aAll samples analyzed using EPA Method 8260B or 8260C.

^bMethod detection limits are reported for analyte non-detections where reporting limits are greater than NYSDEC groundwater quality standards.

^cThe analytical laboratory recorded an elevated temperature (20.6 degrees Celsius) upon receipt of samples collected on 26 August 2021 due to a shipping delay. Results for these samples are flagged as estimated due to a potential low bias.

^dResults provided are from the duplicate sample with the highest detected concentrations.

^eNYSDEC groundwater quality standards for benzene, toluene, ethylbenzene, and total xylenes from NYSDEC, 6 NYCRR Part 703: Surface Water and Groundwater Quality Standards and Effluent Limitations, August 4, 1999.

Table 3
Trend Analysis at MW-1
Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Location:		MW-1		
	Date	Ethylbenzene ug/L	Date	Total Xylenes ug/L
	6/21/06	163	6/21/06	676
	9/22/06	92.3	9/22/06	374
	12/15/06	25.7	12/15/06	204
	2/22/07	2.3	2/22/07	60.3
	6/7/07	79.7	6/7/07	804
	9/27/07	15.2	9/27/07	43.5
	10/21/08	68	10/21/08	130
	2/18/10	14	2/18/10	43
	5/11/11	45	5/11/11	280
1	9/13/12	3.7	9/13/12	4.6
2	10/17/13	1.6	10/17/13	19
3	3/31/15	27	3/31/15	59
4	5/19/16	11	5/19/16	40
5	7/6/17	8.4	7/6/17	44
6	10/25/18	7	10/25/18	29
7	2/3/20	17	2/3/20	14
8	5/5/21	<2.0	5/5/21	<4.0
9	8/26/21	<2.0	8/26/21	<4.0
10	11/8/21	7.6	11/8/21	12
n		10		10
S-Statistic		-8		-16
Sig. Level		0.05		0.05
Min "S" (a)		21		21
Trend		No Trend		No Trend

Notes

- (a) The minimum "S" is the lowest absolute value of the S-statistic for which the probability is below the indicated significance level.
- (b) Trends are calculated using the last 10 data points.
- (c) For the purposes of trend analysis, non-detect results are treated as zero concentrations.

Abbreviations

ug/L: micrograms per liter

References

Gilbert, 1987. *Statistical Methods for Environmental Pollution Monitoring*, Richard O. Gilbert, Pacific Northwest Laboratory, John Wiley & Sons, Inc., New York, 1987.

Table 4
Trend Analysis at MW-12
Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Location:		MW-12						
	Date	Benzene ug/L	Date	Toluene ug/L	Date	Ethylbenzene ug/L	Date	Total Xylenes ug/L
1	6/21/06	313	6/21/06	166	6/21/06	43.2	6/21/06	1010
	9/21/06	333	9/21/06	265	9/21/06	618	9/21/06	1820
	12/14/06	119	12/14/06	12.4	12/14/06	235	12/14/06	312
	2/22/07	220	2/22/07	31.8	2/22/07	493	2/22/07	1130
	6/7/07	184	6/7/07	35.3	6/7/07	509	6/7/07	846
	9/27/07	337	9/27/07	99.9	9/27/07	963	9/27/07	1570
	10/21/08	31	10/21/08	14 J	10/21/08	148	10/21/08	238
	2/18/10	6.8	2/18/10	2.9	2/18/10	10	2/18/10	19
	5/11/11	29	5/11/11	17	5/11/11	140	5/11/11	390
	9/13/12	10	9/13/12	4.8	9/13/12	14	9/13/12	74
2	10/17/13	1	10/17/13	<1.0	10/17/13	3.5	10/17/13	5
3	3/31/15	13	3/31/15	7.7	3/31/15	75	3/31/15	78
4	5/19/16	2.5	5/19/16	<1.0	5/19/16	2.4	5/19/16	1.4
5	7/6/17	2.9	7/6/17	<1.0	7/6/17	4.8	7/6/17	2
6	10/25/18	1.3	10/25/18	<1.0	10/25/18	5.4	10/25/18	5.7
7	2/3/20	1.8	2/3/20	0.85	2/3/20	18	2/3/20	7.6
8	5/5/21	<1.0	5/5/21	<1.0	5/5/21	2.7	5/5/21	<2.0
9	8/26/21	3.1	8/26/21	0.77	8/26/21	38	8/26/21	3.8
10	11/8/21	<0.82	11/8/21	<2.0	11/8/21	0.75	11/8/21	<4.0
n		10		10		10		10
S-Statistic		-16		-8		-5		-18
Sig. Level		0.05		0.05		0.05		0.05
Min "S" (a)		21		21		21		21
Trend		No Trend		No Trend		No Trend		No Trend

Notes

- (a) The minimum "S" is the lowest absolute value of the S-statistic for which the probability is below the indicated significance level.
- (b) Trends are calculated using the last 10 data points.
- (c) For the purposes of trend analysis, non-detect results are treated as zero concentrations.

Abbreviations

ug/L: micrograms per liter

References

Gilbert, 1987. *Statistical Methods for Environmental Pollution Monitoring*, Richard O. Gilbert, Pacific Northwest Laboratory, John Wiley & Sons, Inc., New York, 1987.

Appendix A

Laboratory Analytical Reports and Chain-of-Custody Records for Groundwater Samples

An Appendix to:

Accelerated Periodic Review Report
01 July 2021 to 31 August 2022

Former Drive & Park, Inc. Site
Poughkeepsie, New York

September 2022

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-188954-1

Client Project/Site: AVIS Rent A Car - Poughkeepsie, NY

For:

EKI Environment & Water Inc
577 Airport Blvd
Suite 500
Burlingame, California 94010

Attn: Bobby Plybon



Authorized for release by:

9/2/2021 2:50:24 PM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835

Brian.Fischer@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	12
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18



Definitions/Glossary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Job ID: 480-188954-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-188954-1

Comments

No additional comments.

Receipt

The samples were received on 8/31/2021 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.6° C.

Receipt Exceptions

Cooler received outside of acceptable temperature range due to delay in shipping: MW-1-082621 (480-188954-1), MW-110-082621 (480-188954-2), MW-12-082621 (480-188954-3), MW-1212-082621 (480-188954-4), MW-201-082621 (480-188954-5), MW-201-082621 (480-188954-5[MS]), MW-201-082621 (480-188954-5[MSD]), MW-203-082621 (480-188954-6) and TRIP BLANK (480-188954-7).

GC/MS VOA

Method 8260C: Surrogate recovery for the following samples were outside control limits: MW-12-082621 (480-188954-3) and MW-1212-082621 (480-188954-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-1-082621 (480-188954-1). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Client Sample ID: MW-1-082621

Lab Sample ID: 480-188954-1

No Detections.

Client Sample ID: MW-110-082621

Lab Sample ID: 480-188954-2

No Detections.

Client Sample ID: MW-12-082621

Lab Sample ID: 480-188954-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.1		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.77	J	1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	38		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.8		2.0	0.66	ug/L	1		8260C	Total/NA
Xylenes, Total	3.8		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	46		2.0	1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1212-082621

Lab Sample ID: 480-188954-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.71	J	1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	34		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.3		2.0	0.66	ug/L	1		8260C	Total/NA
Xylenes, Total	3.3		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	41		2.0	1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-201-082621

Lab Sample ID: 480-188954-5

No Detections.

Client Sample ID: MW-203-082621

Lab Sample ID: 480-188954-6

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-188954-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Client Sample ID: MW-1-082621

Lab Sample ID: 480-188954-1

Date Collected: 08/26/21 10:33

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			09/01/21 04:28	2
Toluene	ND		2.0	1.0	ug/L			09/01/21 04:28	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/01/21 04:28	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			09/01/21 04:28	2
o-Xylene	ND		2.0	1.5	ug/L			09/01/21 04:28	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/01/21 04:28	2
Total BTEX	ND		4.0	2.0	ug/L			09/01/21 04:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		80 - 120		09/01/21 04:28	2
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/01/21 04:28	2
4-Bromofluorobenzene (Surr)	92		73 - 120		09/01/21 04:28	2
Dibromofluoromethane (Surr)	102		75 - 123		09/01/21 04:28	2

Client Sample ID: MW-110-082621

Lab Sample ID: 480-188954-2

Date Collected: 08/26/21 08:45

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/01/21 04:52	1
Toluene	ND		1.0	0.51	ug/L			09/01/21 04:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/01/21 04:52	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/01/21 04:52	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 04:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/01/21 04:52	1
Total BTEX	ND		2.0	1.0	ug/L			09/01/21 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		09/01/21 04:52	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/01/21 04:52	1
4-Bromofluorobenzene (Surr)	91		73 - 120		09/01/21 04:52	1
Dibromofluoromethane (Surr)	102		75 - 123		09/01/21 04:52	1

Client Sample ID: MW-12-082621

Lab Sample ID: 480-188954-3

Date Collected: 08/26/21 09:30

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.1		1.0	0.41	ug/L			09/01/21 05:15	1
Toluene	0.77	J	1.0	0.51	ug/L			09/01/21 05:15	1
Ethylbenzene	38		1.0	0.74	ug/L			09/01/21 05:15	1
m-Xylene & p-Xylene	3.8		2.0	0.66	ug/L			09/01/21 05:15	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 05:15	1
Xylenes, Total	3.8		2.0	0.66	ug/L			09/01/21 05:15	1
Total BTEX	46		2.0	1.0	ug/L			09/01/21 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	85		80 - 120		09/01/21 05:15	1
1,2-Dichloroethane-d4 (Surr)	140	S1+	77 - 120		09/01/21 05:15	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Client Sample ID: MW-12-082621

Lab Sample ID: 480-188954-3

Date Collected: 08/26/21 09:30

Matrix: Water

Date Received: 08/31/21 11:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		73 - 120		09/01/21 05:15	1
Dibromofluoromethane (Surr)	97		75 - 123		09/01/21 05:15	1

Client Sample ID: MW-1212-082621

Lab Sample ID: 480-188954-4

Date Collected: 08/26/21 09:30

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.6		1.0	0.41	ug/L			09/01/21 05:37	1
Toluene	0.71	J	1.0	0.51	ug/L			09/01/21 05:37	1
Ethylbenzene	34		1.0	0.74	ug/L			09/01/21 05:37	1
m-Xylene & p-Xylene	3.3		2.0	0.66	ug/L			09/01/21 05:37	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 05:37	1
Xylenes, Total	3.3		2.0	0.66	ug/L			09/01/21 05:37	1
Total BTEX	41		2.0	1.0	ug/L			09/01/21 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		09/01/21 05:37	1
1,2-Dichloroethane-d4 (Surr)	127	S1+	77 - 120		09/01/21 05:37	1
4-Bromofluorobenzene (Surr)	89		73 - 120		09/01/21 05:37	1
Dibromofluoromethane (Surr)	96		75 - 123		09/01/21 05:37	1

Client Sample ID: MW-201-082621

Lab Sample ID: 480-188954-5

Date Collected: 08/26/21 08:00

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/01/21 06:00	1
Toluene	ND		1.0	0.51	ug/L			09/01/21 06:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/01/21 06:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/01/21 06:00	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 06:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/01/21 06:00	1
Total BTEX	ND		2.0	1.0	ug/L			09/01/21 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		09/01/21 06:00	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		09/01/21 06:00	1
4-Bromofluorobenzene (Surr)	94		73 - 120		09/01/21 06:00	1
Dibromofluoromethane (Surr)	102		75 - 123		09/01/21 06:00	1

Client Sample ID: MW-203-082621

Lab Sample ID: 480-188954-6

Date Collected: 08/26/21 11:25

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/01/21 06:23	1
Toluene	ND		1.0	0.51	ug/L			09/01/21 06:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Client Sample ID: MW-203-082621

Lab Sample ID: 480-188954-6

Date Collected: 08/26/21 11:25

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			09/01/21 06:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/01/21 06:23	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 06:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/01/21 06:23	1
Total BTEX	ND		2.0	1.0	ug/L			09/01/21 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		09/01/21 06:23	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		09/01/21 06:23	1
4-Bromofluorobenzene (Surr)	92		73 - 120		09/01/21 06:23	1
Dibromofluoromethane (Surr)	94		75 - 123		09/01/21 06:23	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-188954-7

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/31/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/01/21 06:47	1
Toluene	ND		1.0	0.51	ug/L			09/01/21 06:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/01/21 06:47	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/01/21 06:47	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 06:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/01/21 06:47	1
Total BTEX	ND		2.0	1.0	ug/L			09/01/21 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		09/01/21 06:47	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/01/21 06:47	1
4-Bromofluorobenzene (Surr)	94		73 - 120		09/01/21 06:47	1
Dibromofluoromethane (Surr)	99		75 - 123		09/01/21 06:47	1

Surrogate Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-188954-1	MW-1-082621	89	97	92	102
480-188954-2	MW-110-082621	90	101	91	102
480-188954-3	MW-12-082621	85	140 S1+	89	97
480-188954-4	MW-1212-082621	90	127 S1+	89	96
480-188954-5	MW-201-082621	91	99	94	102
480-188954-5 MS	MW-201-082621	95	95	95	93
480-188954-5 MSD	MW-201-082621	94	92	98	95
480-188954-6	MW-203-082621	92	106	92	94
480-188954-7	TRIP BLANK	90	98	94	99
LCS 480-594833/6	Lab Control Sample	94	93	96	93
MB 480-594833/8	Method Blank	95	101	94	102

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

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

Lab Sample ID: MB 480-594833/8

Matrix: Water

Analysis Batch: 594833

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/01/21 00:35	1
Toluene	ND		1.0	0.51	ug/L			09/01/21 00:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/01/21 00:35	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/01/21 00:35	1
o-Xylene	ND		1.0	0.76	ug/L			09/01/21 00:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/01/21 00:35	1
Total BTEX	ND		2.0	1.0	ug/L			09/01/21 00:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		09/01/21 00:35	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/01/21 00:35	1
4-Bromofluorobenzene (Surr)	94		73 - 120		09/01/21 00:35	1
Dibromofluoromethane (Surr)	102		75 - 123		09/01/21 00:35	1

Lab Sample ID: LCS 480-594833/6

Matrix: Water

Analysis Batch: 594833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.2		ug/L		97	71 - 124
Toluene	25.0	23.2		ug/L		93	80 - 122
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	76 - 122
o-Xylene	25.0	23.8		ug/L		95	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Lab Sample ID: 480-188954-5 MS

Matrix: Water

Analysis Batch: 594833

Client Sample ID: MW-201-082621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	23.2		ug/L		93	71 - 124
Toluene	ND		25.0	22.7		ug/L		91	80 - 122
Ethylbenzene	ND		25.0	22.5		ug/L		90	77 - 123
m-Xylene & p-Xylene	ND		25.0	22.6		ug/L		91	76 - 122
o-Xylene	ND		25.0	22.5		ug/L		90	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

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

Lab Sample ID: 480-188954-5 MSD

Matrix: Water

Analysis Batch: 594833

Client Sample ID: MW-201-082621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	21.8		ug/L		87	71 - 124	6	13
Toluene	ND		25.0	21.2		ug/L		85	80 - 122	7	15
Ethylbenzene	ND		25.0	21.6		ug/L		86	77 - 123	4	15
m-Xylene & p-Xylene	ND		25.0	21.9		ug/L		88	76 - 122	3	16
o-Xylene	ND		25.0	21.4		ug/L		86	76 - 122	5	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123

QC Association Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

GC/MS VOA

Analysis Batch: 594833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188954-1	MW-1-082621	Total/NA	Water	8260C	
480-188954-2	MW-110-082621	Total/NA	Water	8260C	
480-188954-3	MW-12-082621	Total/NA	Water	8260C	
480-188954-4	MW-1212-082621	Total/NA	Water	8260C	
480-188954-5	MW-201-082621	Total/NA	Water	8260C	
480-188954-6	MW-203-082621	Total/NA	Water	8260C	
480-188954-7	TRIP BLANK	Total/NA	Water	8260C	
MB 480-594833/8	Method Blank	Total/NA	Water	8260C	
LCS 480-594833/6	Lab Control Sample	Total/NA	Water	8260C	
480-188954-5 MS	MW-201-082621	Total/NA	Water	8260C	
480-188954-5 MSD	MW-201-082621	Total/NA	Water	8260C	

Lab Chronicle

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Client Sample ID: MW-1-082621

Lab Sample ID: 480-188954-1

Date Collected: 08/26/21 10:33

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	594833	09/01/21 04:28	CRL	TAL BUF

Client Sample ID: MW-110-082621

Lab Sample ID: 480-188954-2

Date Collected: 08/26/21 08:45

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 04:52	CRL	TAL BUF

Client Sample ID: MW-12-082621

Lab Sample ID: 480-188954-3

Date Collected: 08/26/21 09:30

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 05:15	CRL	TAL BUF

Client Sample ID: MW-1212-082621

Lab Sample ID: 480-188954-4

Date Collected: 08/26/21 09:30

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 05:37	CRL	TAL BUF

Client Sample ID: MW-201-082621

Lab Sample ID: 480-188954-5

Date Collected: 08/26/21 08:00

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 06:00	CRL	TAL BUF

Client Sample ID: MW-203-082621

Lab Sample ID: 480-188954-6

Date Collected: 08/26/21 11:25

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 06:23	CRL	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-188954-7

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/31/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	594833	09/01/21 06:47	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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
8260C		Water	Total BTEX

Method Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-188954-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-188954-1	MW-1-082621	Water	08/26/21 10:33	08/31/21 11:30
480-188954-2	MW-110-082621	Water	08/26/21 08:45	08/31/21 11:30
480-188954-3	MW-12-082621	Water	08/26/21 09:30	08/31/21 11:30
480-188954-4	MW-1212-082621	Water	08/26/21 09:30	08/31/21 11:30
480-188954-5	MW-201-082621	Water	08/26/21 08:00	08/31/21 11:30
480-188954-6	MW-203-082621	Water	08/26/21 11:25	08/31/21 11:30
480-188954-7	TRIP BLANK	Water	08/26/21 00:00	08/31/21 11:30

**Environment Testing
America**

480-188954 Chain of Custody

Login Sample Receipt Checklist

Client: EKI Environment & Water Inc

Job Number: 480-188954-1

Login Number: 188954

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No: Water present in cooler; indicates evidence of melted ice
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	20.6 #1 ICE
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192161-1

Client Project/Site: AVIS Rent A Car - Poughkeepsie, NY

For:

EKI Environment & Water Inc
577 Airport Blvd
Suite 500
Burlingame, California 94010

Attn: Bobby Plybon



Authorized for release by:

11/17/2021 1:49:53 PM

John Beninati, Project Manager
john.beninati@eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19



Definitions/Glossary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Job ID: 480-192161-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-192161-1

Comments

No additional comments.

Receipt

The samples were received on 11/10/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method 8260C: The surrogate recovery for the blank associated with analytical batch 480-604674 was outside the upper control limits.

Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: MW-201-110821 (480-192161-4) and TRIP BLANK (480-192161-7). These samples did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-1-110821 (480-192161-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-12-110821 (480-192161-2). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Client Sample ID: MW-1212-110821

Lab Sample ID: 480-192161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.75	J	1.0	0.74	ug/L	1		8260C	Total/NA

Client Sample ID: MW-12-110821

Lab Sample ID: 480-192161-2

No Detections.

Client Sample ID: MW-110-110821

Lab Sample ID: 480-192161-3

No Detections.

Client Sample ID: MW-201-110821

Lab Sample ID: 480-192161-4

No Detections.

Client Sample ID: MW-1-110821

Lab Sample ID: 480-192161-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	7.6	J	8.0	5.9	ug/L	8		8260C	Total/NA
m-Xylene & p-Xylene	12	J	16	5.3	ug/L	8		8260C	Total/NA
Xylenes, Total	12	J	16	5.3	ug/L	8		8260C	Total/NA
Total BTEX	20		16	8.0	ug/L	8		8260C	Total/NA

Client Sample ID: MW-203-110821

Lab Sample ID: 480-192161-6

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-192161-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Client Sample ID: MW-1212-110821

Lab Sample ID: 480-192161-1

Date Collected: 11/08/21 09:35

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 15:54	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 15:54	1
Ethylbenzene	0.75	J	1.0	0.74	ug/L			11/12/21 15:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 15:54	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 15:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 15:54	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		11/12/21 15:54	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/12/21 15:54	1
4-Bromofluorobenzene (Surr)	101		73 - 120		11/12/21 15:54	1
Dibromofluoromethane (Surr)	103		75 - 123		11/12/21 15:54	1

Client Sample ID: MW-12-110821

Lab Sample ID: 480-192161-2

Date Collected: 11/08/21 09:35

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			11/15/21 13:36	2
Toluene	ND		2.0	1.0	ug/L			11/15/21 13:36	2
Ethylbenzene	ND		2.0	1.5	ug/L			11/15/21 13:36	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			11/15/21 13:36	2
o-Xylene	ND		2.0	1.5	ug/L			11/15/21 13:36	2
Xylenes, Total	ND		4.0	1.3	ug/L			11/15/21 13:36	2
Total BTEX	ND		4.0	2.0	ug/L			11/15/21 13:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		11/15/21 13:36	2
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/15/21 13:36	2
4-Bromofluorobenzene (Surr)	97		73 - 120		11/15/21 13:36	2
Dibromofluoromethane (Surr)	103		75 - 123		11/15/21 13:36	2

Client Sample ID: MW-110-110821

Lab Sample ID: 480-192161-3

Date Collected: 11/08/21 09:02

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 16:39	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 16:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/12/21 16:39	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 16:39	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 16:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 16:39	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		11/12/21 16:39	1
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		11/12/21 16:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Client Sample ID: MW-110-110821

Lab Sample ID: 480-192161-3

Date Collected: 11/08/21 09:02

Matrix: Water

Date Received: 11/10/21 10:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		73 - 120		11/12/21 16:39	1
Dibromofluoromethane (Surr)	111		75 - 123		11/12/21 16:39	1

Client Sample ID: MW-201-110821

Lab Sample ID: 480-192161-4

Date Collected: 11/08/21 08:13

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 17:01	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 17:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/12/21 17:01	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 17:01	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 17:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 17:01	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	124	S1+	80 - 120		11/12/21 17:01	1
1,2-Dichloroethane-d4 (Surr)	137	S1+	77 - 120		11/12/21 17:01	1
4-Bromofluorobenzene (Surr)	133	S1+	73 - 120		11/12/21 17:01	1
Dibromofluoromethane (Surr)	142	S1+	75 - 123		11/12/21 17:01	1

Client Sample ID: MW-1-110821

Lab Sample ID: 480-192161-5

Date Collected: 11/08/21 10:57

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		8.0	3.3	ug/L			11/15/21 13:58	8
Toluene	ND		8.0	4.1	ug/L			11/15/21 13:58	8
Ethylbenzene	7.6	J	8.0	5.9	ug/L			11/15/21 13:58	8
m-Xylene & p-Xylene	12	J	16	5.3	ug/L			11/15/21 13:58	8
o-Xylene	ND		8.0	6.1	ug/L			11/15/21 13:58	8
Xylenes, Total	12	J	16	5.3	ug/L			11/15/21 13:58	8
Total BTEX	20		16	8.0	ug/L			11/15/21 13:58	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		11/15/21 13:58	8
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/15/21 13:58	8
4-Bromofluorobenzene (Surr)	101		73 - 120		11/15/21 13:58	8
Dibromofluoromethane (Surr)	103		75 - 123		11/15/21 13:58	8

Client Sample ID: MW-203-110821

Lab Sample ID: 480-192161-6

Date Collected: 11/08/21 10:24

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 17:46	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 17:46	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Client Sample ID: MW-203-110821

Lab Sample ID: 480-192161-6

Date Collected: 11/08/21 10:24

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			11/12/21 17:46	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 17:46	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 17:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 17:46	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		11/12/21 17:46	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/12/21 17:46	1
4-Bromofluorobenzene (Surr)	111		73 - 120		11/12/21 17:46	1
Dibromofluoromethane (Surr)	106		75 - 123		11/12/21 17:46	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-192161-7

Date Collected: 11/08/21 00:00

Matrix: Water

Date Received: 11/10/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 18:08	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 18:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/12/21 18:08	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 18:08	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 18:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 18:08	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 120		11/12/21 18:08	1
1,2-Dichloroethane-d4 (Surr)	120		77 - 120		11/12/21 18:08	1
4-Bromofluorobenzene (Surr)	121	S1+	73 - 120		11/12/21 18:08	1
Dibromofluoromethane (Surr)	118		75 - 123		11/12/21 18:08	1

Surrogate Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-192161-1	MW-1212-110821	100	109	101	103
480-192161-2	MW-12-110821	100	109	97	103
480-192161-3	MW-110-110821	102	114	110	111
480-192161-4	MW-201-110821	124 S1+	137 S1+	133 S1+	142 S1+
480-192161-4 MS	MW-201-110821	99	105	102	103
480-192161-4 MSD	MW-201-110821	100	99	101	101
480-192161-5	MW-1-110821	102	103	101	103
480-192161-6	MW-203-110821	105	102	111	106
480-192161-7	TRIP BLANK	115	120	121 S1+	118
LCS 480-604674/4	Lab Control Sample	105	108	116	110
LCS 480-604925/5	Lab Control Sample	102	101	100	102
MB 480-604674/6	Method Blank	109	115	121 S1+	117
MB 480-604925/8	Method Blank	101	104	100	104

Surrogate Legend

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

QC Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

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

Lab Sample ID: MB 480-604674/6

Matrix: Water

Analysis Batch: 604674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/12/21 15:21	1
Toluene	ND		1.0	0.51	ug/L			11/12/21 15:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/12/21 15:21	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/12/21 15:21	1
o-Xylene	ND		1.0	0.76	ug/L			11/12/21 15:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/12/21 15:21	1
Total BTEX	ND		2.0	1.0	ug/L			11/12/21 15:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120		11/12/21 15:21	1
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		11/12/21 15:21	1
4-Bromofluorobenzene (Surr)	121	S1+	73 - 120		11/12/21 15:21	1
Dibromofluoromethane (Surr)	117		75 - 123		11/12/21 15:21	1

Lab Sample ID: LCS 480-604674/4

Matrix: Water

Analysis Batch: 604674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.2		ug/L		105	71 - 124
Toluene	25.0	25.5		ug/L		102	80 - 122
Ethylbenzene	25.0	26.9		ug/L		108	77 - 123
m-Xylene & p-Xylene	25.0	27.1		ug/L		109	76 - 122
o-Xylene	25.0	26.8		ug/L		107	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	110		75 - 123

Lab Sample ID: MB 480-604925/8

Matrix: Water

Analysis Batch: 604925

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/15/21 11:56	1
Toluene	ND		1.0	0.51	ug/L			11/15/21 11:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/15/21 11:56	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/15/21 11:56	1
o-Xylene	ND		1.0	0.76	ug/L			11/15/21 11:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/15/21 11:56	1
Total BTEX	ND		2.0	1.0	ug/L			11/15/21 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		11/15/21 11:56	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		11/15/21 11:56	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

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

Lab Sample ID: MB 480-604925/8

Matrix: Water

Analysis Batch: 604925

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		73 - 120		11/15/21 11:56	1
Dibromofluoromethane (Surr)	104		75 - 123		11/15/21 11:56	1

Lab Sample ID: LCS 480-604925/5

Matrix: Water

Analysis Batch: 604925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.8		ug/L		99	71 - 124
Toluene	25.0	25.0		ug/L		100	80 - 122
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	76 - 122
o-Xylene	25.0	25.7		ug/L		103	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-192161-4 MS

Matrix: Water

Analysis Batch: 604925

Client Sample ID: MW-201-110821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.4		ug/L		106	71 - 124
Toluene	ND		25.0	25.9		ug/L		104	80 - 122
Ethylbenzene	ND		25.0	26.8		ug/L		107	77 - 123
m-Xylene & p-Xylene	ND		25.0	26.9		ug/L		108	76 - 122
o-Xylene	ND		25.0	27.0		ug/L		108	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: 480-192161-4 MSD

Matrix: Water

Analysis Batch: 604925

Client Sample ID: MW-201-110821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	21.5	F2	ug/L		86	71 - 124	20	13
Toluene	ND		25.0	22.3		ug/L		89	80 - 122	15	15
Ethylbenzene	ND		25.0	22.7	F2	ug/L		91	77 - 123	17	15
m-Xylene & p-Xylene	ND		25.0	22.6	F2	ug/L		91	76 - 122	17	16
o-Xylene	ND		25.0	22.4	F2	ug/L		89	76 - 122	19	16

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

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

Lab Sample ID: 480-192161-4 MSD

Matrix: Water

Analysis Batch: 604925

Client Sample ID: MW-201-110821

Prep Type: Total/NA

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

QC Association Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

GC/MS VOA

Analysis Batch: 604674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192161-1	MW-1212-110821	Total/NA	Water	8260C	
480-192161-3	MW-110-110821	Total/NA	Water	8260C	
480-192161-4	MW-201-110821	Total/NA	Water	8260C	
480-192161-6	MW-203-110821	Total/NA	Water	8260C	
480-192161-7	TRIP BLANK	Total/NA	Water	8260C	
MB 480-604674/6	Method Blank	Total/NA	Water	8260C	
LCS 480-604674/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 604925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192161-2	MW-12-110821	Total/NA	Water	8260C	
480-192161-5	MW-1-110821	Total/NA	Water	8260C	
MB 480-604925/8	Method Blank	Total/NA	Water	8260C	
LCS 480-604925/5	Lab Control Sample	Total/NA	Water	8260C	
480-192161-4 MS	MW-201-110821	Total/NA	Water	8260C	
480-192161-4 MSD	MW-201-110821	Total/NA	Water	8260C	

Lab Chronicle

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Client Sample ID: MW-1212-110821

Lab Sample ID: 480-192161-1

Date Collected: 11/08/21 09:35

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	604674	11/12/21 15:54	LCH	TAL BUF

Client Sample ID: MW-12-110821

Lab Sample ID: 480-192161-2

Date Collected: 11/08/21 09:35

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	604925	11/15/21 13:36	AXK	TAL BUF

Client Sample ID: MW-110-110821

Lab Sample ID: 480-192161-3

Date Collected: 11/08/21 09:02

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	604674	11/12/21 16:39	LCH	TAL BUF

Client Sample ID: MW-201-110821

Lab Sample ID: 480-192161-4

Date Collected: 11/08/21 08:13

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	604674	11/12/21 17:01	LCH	TAL BUF

Client Sample ID: MW-1-110821

Lab Sample ID: 480-192161-5

Date Collected: 11/08/21 10:57

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	604925	11/15/21 13:58	AXK	TAL BUF

Client Sample ID: MW-203-110821

Lab Sample ID: 480-192161-6

Date Collected: 11/08/21 10:24

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	604674	11/12/21 17:46	LCH	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-192161-7

Date Collected: 11/08/21 00:00

Matrix: Water

Date Received: 11/10/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	604674	11/12/21 18:08	LCH	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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
8260C		Water	Total BTEX

Method Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: EKI Environment & Water Inc
Project/Site: AVIS Rent A Car - Poughkeepsie, NY

Job ID: 480-192161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192161-1	MW-1212-110821	Water	11/08/21 09:35	11/10/21 10:30
480-192161-2	MW-12-110821	Water	11/08/21 09:35	11/10/21 10:30
480-192161-3	MW-110-110821	Water	11/08/21 09:02	11/10/21 10:30
480-192161-4	MW-201-110821	Water	11/08/21 08:13	11/10/21 10:30
480-192161-5	MW-1-110821	Water	11/08/21 10:57	11/10/21 10:30
480-192161-6	MW-203-110821	Water	11/08/21 10:24	11/10/21 10:30
480-192161-7	TRIP BLANK	Water	11/08/21 00:00	11/10/21 10:30



480-192161 Chain of Custody

Login Sample Receipt Checklist

Client: EKI Environment & Water Inc

Job Number: 480-192161-1

Login Number: 192161

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	EKI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix B

Statistical Trend Analysis Methodology

An Appendix to:

Accelerated Periodic Review Report
01 July 2021 to 31 August 2022

Former Drive & Park, Inc. Site
Poughkeepsie, New York

September 2022

TABLE OF CONTENTS

B-1.	INTRODUCTION	1
B-2.	TREND ANALYSIS FOR CHEMICALS IN GROUNDWATER	1

LIST OF TABLES

Table B-1	Example Trend Analysis: Ethylbenzene at MW-1
Table B-2	Probabilities for the Mann-Kendall Nonparametric Test for Trend (Gilbert, 1987)

B-1. INTRODUCTION

This Appendix B is a part of the *Accelerated Periodic Review Report* for the site located at 28 IBM Road in the Town of Poughkeepsie, New York, Brownfield Cleanup Program #C314111. The *Accelerated Periodic Review Report* presents the results of site monitoring through 31 August 2022.

This Appendix B presents the statistical trend analysis methodology used to evaluate concentrations of chemicals in groundwater at the site.

B-2. TREND ANALYSIS FOR CHEMICALS IN GROUNDWATER

The Mann-Kendall statistical analysis is used to determine long term trends for chemical concentrations measured in groundwater samples collected from individual wells at the site, as described below.

The detected chemical of potential concern (COPC) concentrations measured in groundwater samples collected from individual wells at the site are tabulated in trend analysis tables in the *Accelerated Periodic Review Report*. In these trend analysis tables, analytical results for duplicate samples are averaged to present one value per sampling event for trend analyses. The trend analysis for ethylbenzene at MW-1 is presented in Table B-1. The Mann-Kendall statistical analysis is used to test the following hypotheses for groundwater data for each well listed in these tables:

- The *null hypothesis*: No long-term trend exists in the concentration of COPCs detected in groundwater samples during the time period analyzed; and,
- The *alternative hypothesis*: A long-term trend exists in the concentration of COPCs detected in groundwater samples during the time period analyzed.

The dataset for Mann-Kendall analysis for COPC concentrations in groundwater is limited to the ten most recent sampling events through August 2022 (in this case, spanning the approximately ten-year period from September 2012 to November 2021), as shown in Table B-1.

The first step in the Mann-Kendall test is to calculate the “S” statistic as follows:

- list the dataset in chronological order;
- calculate all possible differences between data points;
- sum the number of positive and negative difference values; and,

- calculate the S statistic as the difference between the total number of positive and total number of negative signs.

The S-statistic for each data set is listed in the trend analysis tables found in the *Accelerated Periodic Review Report*, and as shown in Table B-1.

When S is a large positive number, measured concentrations are generally increasing over time. Similarly, when S is a large negative number, concentrations are generally decreasing. As shown in Table B-1, for example, the S statistic for the ethylbenzene at well MW-1 data is negative 8, which suggests that the concentration of ethylbenzene in groundwater samples collected from MW-1 is decreasing over the last ten sampling events.

The second step in the Mann-Kendall test is to determine the statistical significance of this observed trend. The probability of obtaining the calculated S statistic by random chance can be determined using a lookup table of probabilities. A version of this table is included as Table B-2. For the purpose of determining whether the result is statistically significant, the sign of the S statistic is ignored.

For each dataset of COPC concentrations collected from individual wells, the null hypothesis of no trend is rejected and the alternative hypothesis of a trend is accepted if the appropriate probability value from Table B-2 is less than 0.05 (i.e., less than a 5 percent chance), the selected significance level of the test. In practical terms, this means that if the S statistic calculated for a given well is sufficiently large, then there is a less than one chance in twenty that an S statistic of the observed magnitude could occur by random chance. Given that ten data points are used for the evaluations in the trend analysis tables, the absolute value of the S-statistic must be greater than or equal to 21 for a trend to be statistically significant at the probability level of 0.05.

For ethylbenzene in well MW-1, the number of samples is ten and the calculated S statistic is negative 8 (Table B-1). Using these two parameters, a probability value of between 0.242 and 0.3 can be found in Table B-2. This result represents a probability of between 24.2 and 30 percent that this S statistic could be obtained from ten samples by random chance. Because this probability range is greater than the 0.05 significance level, the null hypothesis is accepted. That is, a statistically significant long-term trend does not exist for ethylbenzene concentrations in well MW-1.

The trends in individual COPC concentrations for the wells at the site are evaluated in the body of the *Accelerated Periodic Review Report*.

Table B-1
Example Trend Analysis: Ethylbenzene at MW-1
Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

Location:	MW-1	
	Date	Ethylbenzene ug/L
	6/21/06	163
	9/22/06	92.3
	12/15/06	25.7
	2/22/07	2.3
	6/7/07	79.7
	9/27/07	15.2
	10/21/08	68
	2/18/10	14
	5/11/11	45
1	9/13/12	3.7
2	10/17/13	1.6
3	3/31/15	27
4	5/19/16	11
5	7/6/17	8.4
6	10/25/18	7
7	2/3/20	17
8	5/5/21	<2.0
9	8/26/21	<2.0
10	11/8/21	7.6
n		10
S-Statistic		-8
Sig. Level		0.05
Min "S" (a)		21
Trend		No Trend

Notes

- (a) The minimum "S" is the lowest absolute value of the S-statistic for which the probability is below the indicated significance level.
- (b) Trends are calculated using the last 10 data points.
- (c) For the purposes of trend analysis, non-detect results are treated as zero concentrations.

Abbreviations

ug/L: micrograms per liter

References

Gilbert, 1987. *Statistical Methods for Environmental Pollution Monitoring*, Richard O. Gilbert, Pacific Northwest Laboratory, John Wiley & Sons, Inc., New York, 1987.

Table B-2
Probabilities for the Mann-Kendall Nonparametric Test for Trend (Gilbert, 1987)

Accelerated Periodic Review Report
Former Drive & Park, Inc. Site
28 IBM Road, Poughkeepsie, New York

S	Values of n				S	Values of n		
	4	5	8	9		6	7	10
0	0.625	0.592	0.548	0.54	1	0.5	0.5	0.5
2	0.375	0.408	0.452	0.460	3	0.360	0.386	0.431
4	0.167	0.242	0.360	0.381	5	0.236	0.281	0.364
6	0.042	0.117	0.274	0.306	7	0.136	0.191	0.300
8		0.042	0.199	0.238	9	0.068	0.119	0.242
10		0.008	0.138	0.179	11	0.028	0.068	0.190
12			0.089	0.136	13	0.0083	0.035	0.146
14			0.054	0.090	15	0.0014	0.015	0.108
16			0.031	0.060	17		0.0054	0.078
18			0.016	0.038	19		0.0014	0.054
20			0.0071	0.022	21		0.00020	0.036
22			0.0028	0.012	23			0.023
24			0.00087	0.0063	25			0.014
26			0.00019	0.0029	27			0.0083
28			0.000025	0.0012	29			0.0046
30				0.00043	31			0.0023
32				0.00012	33			0.0011
34				0.000025	35			0.00047
36				0.0000028	37			0.00018
					39			0.000058
					41			0.000015
					43			0.0000028
					45			0.00000028

References

Gilbert, 1987. *Statistical Methods for Environmental Pollution Monitoring*, Richard O. Gilbert, Pacific Northwest Laboratory, John Wiley & Sons, Inc., New York, 1987.