Periodic Review Report

Former American Linen Supply Company Facility
822 Seneca Street, Buffalo, New York
BCP Site No. C915241

May 24, 2022, to May 24 2023 Certifying Period

June 2023
Rev. July 2023

B0126-023-001

Prepared For:

Mill Race Commons, LLC

Prepared By:

BENCHMARK

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PERIODIC REVIEW REPORT
for the
FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
(SITE NO. C915241)

822 SENECA STREET
BUFFALO, NEW YORK

June 2023 (May 24, 2022 to May 24, 2023 reporting period) B0126-023-001
Revised July 2023

Prepared for:

Mill Race Commons, LLC
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PERIODIC REVIEW REPORT

Former American Linen Supply Company Facility

BCP Site No. C915241

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Former American Linen Supply Company Facility

BCP Site No. C915241

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1.0 INTRODUCTION

Benchmark Civil/Environmental Engineering and Geology, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) on behalf of Mill Race Commons, LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915241 (i.e. the "Site"), located in the City of Buffalo, Erie County, New York (see Figure 1).

This PRR and the associated Institutional and Engineering Control (IC/EC) Certification Forms (see Appendix A) have been prepared for the May 24, 2022 – May 24, 2023 reporting period in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1).

1.1 Site Background

The Site, which is the location of the Former American Linen Supply Company Facility located at 822 Seneca Street in the City of Buffalo, Erie County, New York, is identified as Section 122.27, Block 1, and Lot 4 on the City of Buffalo Tax Map. The Site is comprised of one (1) parcel totaling approximately 2.9 acres. The Site is bordered by Seymour Street and residential properties to the north; Seneca Street, a residential property, and a vacant former industrial property which has recently been redeveloped with a mixed-use commercial/residential building to the south; Lord Street and commercial/industrial properties to the east; and vacant commercial and residential properties to the west.

Previous reports indicate that the Site was improved with a two-story industrial building utilized as a book binding and printing facility from 1910 to 1978. In 1978, AmeriPride purchased the Site and utilized the first floor and portions of the basement of the existing building as a uniform dry cleaning and industrial laundry facility, formerly known as the American Linen Supply Company. Tetrachloroethylene (PCE) was used as part of the drying cleaning process between 1978 and 1985. The second floor of the building and portions of the basement were utilized by Thorner Sydney Press until 1997.

After dry cleaning and laundry operations ceased in 2004, a temporary vehicle maintenance shop utilized the Site until July 2005. The Site has been vacant since late July 2005, and the vacant industrial building was demolished by AmeriPride between 2011 and 2012. In 2014, Mill Race Commons, LLC purchased the vacant Site. The Site currently

consists of greenspace (soil cover system) within the eastern portion and an asphalt paved parking lot with landscaped areas in the western portion.

1.2 Compliance

No violations of the Site Management Plan (SMP) or associated Institutional and Engineering Control (IC/EC) and monitoring requirements were identified during the subject monitoring period.

It should be noted, a small patch of the soil cover and grass located in the central portion of the of the eastern half of the Site required repair and reseeding during the reporting period. Approximately 2 cubic yards (cy) of topsoil previously approved for import by the Department and used on-Site was placed in the area for cover repair activities on May, 21, 2023 to maintain compliance with DER-10 regulations (see Figure 2 and photo log).

2.0 SITE OVERVIEW

On May 17, 2011, AmeriPride Services Inc. (AmeriPride) entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC to investigate and remediate the contaminated Site. The Site was investigated and remediated under the NYSDEC BCP and in accordance with the approved May 2011 Remedial Investigation Work Plan (RIWP) and the approved May 2014 Alternatives Analysis Report and Remedial Action Work Plan (AAR/RAWP) (Refs. 2 & 3). The Site received a Certificate of Completion (COC) from the NYSDEC in December 2014.

2.1 Existing Conditions

During the Site visit on April 10, 2023, the Site vegetated soil and hardscape cover system was inspected and observed. No evidence of erosion, cracking or breaches was observed on the hardscape covered areas, and a good stand of vegetation was present across the soil-covered areas of the property.

A small patch of soil cover/grass near the center of the lawn area was noted as barren. As such, approximately 2 cubic yards of topsoil tested for previous cover system modifications and approved for import by the Department was placed in the area and reseeded on May 21, 2023.

The Site was reinspected on June 8, 2023. Although seed has not yet germinated due to dry weather conditions, it was visibly present in the freshly-placed topsoil. Accordingly, the site was determined to be in compliance with the IC/EC requirements. Photo verification is provided in Appendix B.

2.1.1 Site Cover System Update

During the reporting period it was noted that the Site Plan (Figure 2) mistakenly identified some areas within the asphalt lot as landscaped. These areas were hatched on construction drawings using a hatch pattern similar to that used for the landscape hatch, but in fact were meant to convey areas within the paved lot that were striped and excluded from parking (e.g., setbacks from fencing and at lot corners). Landscaping comprised of a mix of low-lying shrubbery and trees in mulched beds remains along the northern portion of the parking area and northern property boundary. Figure 2 and the Site photo log provided in Appendix B depict existing conditions.

2.2 Remedial Program Chronology

A Phase I Environmental Site Assessment (ESA), Initial Phase II Subsurface Investigation, Supplemental Phase II, and site-wide groundwater monitoring were completed between 2004 and 2009, prior to entry into the BCP in 2011. Findings of the previous investigations were used to support the approved May 2011 RIWP.

2.2.1 Remedial Investigation

From November 2011 through December 2012, a Remedial Investigation (RI) was performed to characterize the nature and extent of soil, groundwater, and soil vapor contamination at the Site. Remedial investigation sample locations are shown on Figure 2. RI activities included:

- Soil Investigation – borings, test pits, and surface samples collected from the former parking lot area near the former underground storage tanks, basement sub-slab soil, and beneath slab-on-grade in the former dry-cleaning operation area.
- Groundwater Investigation – groundwater samples were collected from discrete locations and from permanent monitoring wells located both on and off-site.
- Soil Vapor Investigation – Soil vapor samples were collected from four locations across the Site.

Environmental investigations of the Site identified the presence of chlorinated volatile organic compounds (cVOCs) including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC) in soil and groundwater; polycyclic aromatic hydrocarbons (PAHs) and heavy metals including arsenic, copper, lead and mercury in historic fill; and petroleum-related VOCs in soil vapor that required remediation. The SMP identifies the five cVOCs as "Target cVOCs," the presence of which is consistent with the former dry-cleaning operations at the Site.

2.2.2 Remedial Action

Remedial activities were reportedly performed across the Site from 2012 through 2014, in accordance with the approved September 2013 Revised Interim Remedial Measures

Work Plan and August 2014 Revised Alternatives Analysis Report and Remedial Action Work Plan (Ref. 3). The Interim Remedial Measures and Remedial Actions included:

- Excavation and off-site disposal of cVOC impacted soil/fill exceeding Commercial/Industrial SCOs in the former dry cleaning area and impacted "oily" material in the southwest corner of the basement beneath the floor slab.
- Removal of former industrial Site features including basement cisterns, underground storage tanks (USTs), and a sewer vault.
- Construction and maintenance of a soil cover system consisting of at least one-foot of NYSDEC-approved clean cover material over a demarcation layer, in accordance with 6NYCRR Part 375 and NYSDEC DER-10 guidelines.
- Execution and recording of an Environmental Easement (EE) to restrict land use and prevent future exposure to any contamination remaining at the Site.
- Development and implementation of a Site Management Plan (SMP) for long-term management of remaining contamination as required by the EE, which includes: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.
- Periodic certification of the institutional and engineering controls listed above.

After completion of remedial activities, remaining contamination was identified in the subsurface at the Site. Therefore, an SMP (Ref. 4), was prepared on behalf of AmeriPride, in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1). Periodic groundwater monitoring is a requirement of the SMP until the NYSDEC determines that it can be discontinued.

3.0 SITE MANAGEMENT PLAN

An SMP was prepared for the Site and approved by the Department in October 2014 (Ref. 4). The SMP was updated and submitted in November 2021 to reflect NYSDEC-approved cover system changes that were completed earlier that year as well as changes to the monitoring program. The SMP includes Institutional and Engineering Control (IC/EC) Requirements, a Monitoring Plan, and an Operation and Maintenance (OM&M) Plan. A brief description of the SMP components is presented below.

3.1 IC/EC Compliance

Because remaining contaminated soil/fill and groundwater exists at the Site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment.

3.1.1 Institutional Controls (ICs) Requirements

The Site is subject to the following ICs:

- Compliance with the EE;
- The controlled property may only be used for commercial and/or industrial use as defined by the NYSDEC;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management and the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- All future activities on the property that will disturb the remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

- Operations, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP; and
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the EE.

ICs identified in the EE may not be discontinued without an amendment to or extinguishment of the EE.

3.1.2 Engineering Controls (ECs) Requirements

A cover system was installed at the site to prevent exposure to remaining contamination above the commercial use and protection of groundwater soil cleanup objectives (SCOs) in soil/fill.

The cover system is comprised of a minimum of 12 inches of clean soil, asphalt pavement or concrete cover. Specifically, the cover system consists of the following:

- Pavement Area – the majority of the areas that were formerly parking lots and driveways associated with the former dry cleaner are presently covered with asphalt and/or concrete. Landscape beds comprised of 12 inches of soils underlain by demarcation layer and vegetated with a mix of low-lying shrubbery and trees in mulched beds are present on the northern portion of this area.
- Former Building Slab Area – the area that was the slab-on-grade portion of the former building as well as a former driveway area leading to Seneca Street are improved with a demarcation layer consisting of geotextile fabric placed over remaining historic fill and native soils above which is a minimum of 12 inches of clean soil. The area was seeded for aesthetic purposes and erosion control.
- Former Building Basement Area – the area that was the location of the basement of the former Site building. The basement was backfilled with up to 10 feet of clean soil. The area was seeded for aesthetic purposes and erosion control.

3.1.3 Site Inspection & IC/EC Compliance

On April 10, 2023, Benchmark's Certifying Professional Engineer performed a Site visit and assessment. During this visit, the Site covered by this PRR was found to be substantially compliant with the IC/EC requirements, although a minor repair was required to reestablish the lawn in a small area near the center of the vegetated lot. This work was undertaken in May of 2023 and the site was reinspected by Benchmark's Certifying Professional Engineer on June 8, 2023, at which time the site was fully compliant with IC/EC requirements. Appendix A includes the completed PE-certified IC/EC Form for the Site. Appendix B includes a photographic log of the Site at the time of the inspection.

3.2 Monitoring Plan Compliance

The Monitoring Plan presented in the SMP describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected site media presented below. The Monitoring Plan consists of three (3) major components, including cover system monitoring, groundwater monitoring, and soil vapor/indoor air monitoring. Monitoring programs are summarized in Table 1 below and described in the following Sections.

Table 1: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Cover System	Annual Inspection	N/A	Visual only
Groundwater	Semi-annual for 2 years (completed November 21, 2016); annual events conducted in 2017 and 2018, 2020, 2021, and 2023**	Groundwater	Target cVOCs (PCE, TCE, cis-1,2-DCE, VC)
Soil Vapor/Indoor Air	If two (2) consecutive groundwater monitoring events indicate increase in Target CVOC concentrations at MW-102R, then soil vapor and indoor air sampling may be warranted at the 798 Seneca Street residence and will be discussed with the NYSDEC and NYSDOH	Soil Vapor & Indoor Air	Target cVOCs (PCE, TCE, cis-1,2-DCE, VC)

* The frequency of events will be conducted as specified in the SMP until otherwise approved by NYSDEC and NYSDOH.

** The 2023 sampling event was conducted on January 12, 2023, for this May 24, 2022 to May 24, 2023 reporting period.

3.2.1 Cover System Monitoring

In accordance with the SMP, the cover system must be maintained at all times, and must be replaced in the event it is breached as described in the Excavation Work Plan in Appendix B of the SMP (Ref. 4). The cover will be inspected on an annual basis. If frequent areas of distress are noted, they will be repaired based on the following conditions.

- Asphalt Cover Monitoring – A brief summary of the key maintenance concerns and the respective corrective actions is provided below:
  - *Half-inch or greater cracks or pot holes exposing the sub-base will be sealed or repaired to restore the asphalt cover.*
  - *Vegetation will be removed and the associated impact, hole, or crack will be sealed or repaired to restore the asphalt cover.*

- Vegetative Soil Cover Monitoring – A brief summary of the key maintenance concerns and the respective corrective actions is provided below:
  - *Areas where erosion problems (i.e., rills or gullies) are observed will be repaired by re-grading the localized area, adding the required fill material and/or topsoil, and reseeding/replanting as necessary.*
  - *If burrowing animals are observed breaching the soil cover, as evidenced by exposed fill material, they will be eradicated by a licensed exterminator.*

Based on the Site reconnaissance performed on April 10, 2023, the asphalt and vegetative soil cover system at the Site was substantially compliant with the IC/EC requirements; however, a small portion of the soil cover area within the eastern portion of the Site was barren of grass cover and some minor soil loss. As such, approximately 2 cubic yards of topsoil which was previously approved by the Department and used on-Site for the existing cover material and which had remained in storage by the Site owner was imported on May 21, 2023. The soil was spread within the barren area and seeded. The Site was reinspected on June 8, 2023 to verify the repair. The Site was determined to be fully compliant with the IC/EC requirements. Phot verification is provided in Appendix B.

The newly constructed improvements to the cover system, described in the 2021 PRR, have significantly improved the condition of the asphalt and impervious cover at the Site which existed prior to that time, and remain well-maintained.

3.2.2 Groundwater Monitoring

Groundwater monitoring was performed on a semi-annual basis for a period of two years post-COC, with the final semi-annual event completed on November 21, 2016. Annual monitoring events were conducted on July 11, 2017 and December 14, 2018. The SMP required that groundwater sampled from all nine (9) wells be analyzed for Target cVOCs including PCE, TCE, cis-1,2-DCE, and VC. The network of monitoring wells has been installed to monitor both up-gradient and down-gradient groundwater conditions at the Site. Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance. The monitoring well network is summarized in Table 2 below.

Table 2: Monitoring Well Network Summary

Well ID	Location	Casing Diameter	Screen Depth (fbgs)	Analytes Tested
MW-101*	On-Site	2 inch	13.2-18.2	Target cVOCs
MW-102R	On-Site	2 inch	6.5-11.5	
MW-103	On-Site	2 inch	7.3-12.3	
MW-104	On-Site	2 inch	8.1-13.1	
MW-105	On-Site	2 inch	9.2-14.2	
MW-106	On-Site	2 inch	9.4-14.4	
MW-301	Off-Site	2 inch	13.5-18.5	
MW-302	Off-Site	2 inch	12.8-17.5	
MW-303	Off-Site	2 inch	11.1-15.8	

* MW-101 was decommissioned in June 2020.

Based upon overall improvement in groundwater quality and indication that target cVOCs are not migrating offsite, the March 27, 2019 report requested permission to limit the number of wells sampled to the three downgradient wells (i.e., MW-102R, MW-105, and MW-106), and to reduce the frequency of monitoring to once every 3 years. The NYSDEC issued correspondence on April 23, 2019 which approved the requested reduction in well sampling locations but required continued annual sampling at those locations.

During this reporting period, samples were collected from MW-102R, MW-105, and MW-106 by Haley & Aldrich of New York (Haley & Aldrich) on January 12, 2023. The groundwater monitoring results are presented in the "2022-2023 Groundwater Monitoring Summary Report" completed by Haley & Aldrich, dated April 15, 2023 and revised July 6, 2023 (see Appendix C).

Cis-1,2-dichloroethylene (cis-1,2-DCE) was detected at a concentration of 2.7 µg/L and vinyl chloride (VC) was detected at a concentration of 7 µg/L at MW-102R. The

NYSDEC groundwater standards and comparison criterion are 5 µg/L and 2 µg/L respectively. The slight detections of cis-1,2-DCE and VC identified at MW-102R in the January 12, 2023 samples are generally consistent with prior results and may reflect some seasonal variability. Note that the subject Groundwater Monitoring Summary Report addresses a question concerning the need for redevelopment of the wells, which Haley & Aldrich concludes is not necessary.

During the subject reporting period groundwater monitoring wells MW-102R, MW-105, and MW-106 were sounded and sampled by Haley & Aldrich in accordance with NYSDEC requirements and the Department-approved SMP. The Groundwater Monitoring Summary Report includes trendlines and data summaries for the sampled wells; the data show that the upgradient well (MW-102R) analytical results remain below the NYSDEC groundwater quality standards except for VC which is slightly above its respective standard. The report concludes that the source wells (MW-105 and MW-106) analytical results continue to be above the NYSDEC criteria for cis-1,2-DCE and/or VC; however, concentrations of CVOCs in source area wells MW-105 and MW-106 are consistent with the previous sampling events and have remained consistent or decreasing since 2013.

3.2.3 Soil Vapor/Air Monitoring

Per the SMP, potential evaluation of indoor air and sub-slab vapor in the adjacent residence at 798 Seneca Street may be considered in the future if the property continues to be used as a residence and concentrations of cVOCs in MW-102R indicate an increasing trend.

Based on the most recent groundwater monitoring results, summarized in Appendix C, further evaluation of indoor air and sub-slab vapor in the adjacent residence at 798 Seneca Street does not appear to be required at this time.

3.3 O&M Compliance

The Site remedy does not rely on any mechanical systems (e.g., sub-slab depressurization systems, groundwater pump and treat, or air sparge/soil vapor extraction systems) to protect public health and the environment, therefore an Operation and Maintenance (O&M) Plan is not required for the Site.

4.0 CONCLUSIONS

Based on our April 10, 2023 site reconnaissance visit, the January 2023 groundwater monitoring event results, and cover system repairs completed on May 21, 2023, our conclusions are as follows:

- The Site covered by this PRR is fully compliant with the IC/EC requirements.
- Indoor air sampling at the 798 Seneca Street residence does not appear to be required at this time.
- Groundwater results are generally consistent with prior sample results as of the January 2023 sampling event.
- No groundwater use, changes of use or excavations occurred during the Certifying Period.

5.0 DECLARATION/LIMITATION

This report has been prepared for the exclusive use of Mill Race Commons, LLC. The contents of this report are limited to information available at the time of the site inspection. Data provided by others as referenced herein is assumed to be accurate and reliable. The findings herein may be relied upon only at the discretion of Mill Race Commons, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Civil/Environmental Engineering and Geology, PLLC.

6.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation*. May 2010.
2. Haley & Aldrich of New York. *Report on Remedial Investigations and Interim Remedial Measure Completion for the Former American Linen Supply Company Facility, Buffalo, New York, BCP Site No. C915241*. May 2013.
3. Haley & Aldrich of New York. *Revised Alternatives Analysis Report & Remedial Action Work Plan for the Former American Linen Supply Company Facility, Buffalo, New York, BCP Site No. C915241*. May 2014.
4. Haley & Aldrich of New York. *Site Management Plan for the Former American Linen Supply Company Facility, Buffalo, New York, BCP Site No. C915241*. October 2014. Revised by Mill Race Commons, LLC October 2021.
5. New York State Department of Health (NYSDOH). *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. October 2006.

FIGURES

FIGURE 1

F:\CAD\Benchmark\Kavinoky\822 Seneca Street\PRR\2023\Figure 1; Site Location & Vicinity Map.dwg, cschuster

SCALE: 1 INCH = 5,000 FEET
SCALE IN FEET
(approximate)

BENCHMARK

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0126-023-001

DATE: JUNE 2023

DRAFTED BY: CMS

SITE LOCATION & VICINITY MAP

PERIODIC REVIEW REPORT

FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
(SITE NO. C915241)
BUFFALO, NEW YORK

PREPARED FOR

MILL RACE COMMONS, LLC

F:\CAD\Benchmark\Kavinoky\822 Seneca Street\PRR\2023\Figure 2- Site Plan.dwg, cschuster

SEYMOUR ST

TP-3
TP-4
TP-7
TP-6
MW-1
(NOT FOUND)
FMR. 1,000 GAL
ALCOHOL UST
(REMOVED)
TP-5
SV-4
FMR. 10,000 GAL
GASOLINE UST
(REMOVED)
TP-2
TP-1
MW-101
(DECOMMISSIONED)
MW-2
SV-3
TP-8
MILL RACE COMMONS, LLC

VACANT LOT (ASPHALT & GRASS)
822 SENECA STREET
(SBL 122.27-1-4)

APPROXIMATE LOCATION
OF SOIL COVER REPAIR

798 SENECA STREET
TP-1
SV-2
FMR. 1,500 GAL
WASTE OIL UST
(CLOSED IN-PLACE)
FMR. 2 x 20,000 GAL
DIESEL USTs
(CLOSED IN-PLACE)
TP-9
TP-12
SV-1
TP-10
TP-11
MW-102R
STORM WATER
VAULT
MW-3
MW-105
MW-106
MW-103
MW-104
MW-301
MW-303
SENECA ST
LORD ST

N

60' 0' 60' 120'

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

LEGEND:

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- UTILITY - STORM SEWER
- UTILITY - STORM SEWER CATCH BASIN
- ASPHALT FINAL COVER - EXISTING
- ASPHALT FINAL COVER - NEW
- SOIL FINAL COVER
- LANDSCAPING FINAL COVER
- FORMER UST LOCATION
- MW-1 MONITORING WELL (BY OTHER, 2005)
- MW-103 MONITORING WELL (H&A RI, 2013)
- MW-101 DECOMMISSIONED MONITORING WELL (BENCHMARK, 2020)
- TP-1 TEST PIT (H&A RI, 2013)
- SV-1 (SV) SOIL VAPOR (H&A RI, 2012)

DATE: JUNE 2023
DRAFTED BY: CMS

BENCHMARK
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0126-023-001

SITE PLAN

PERIODIC REVIEW REPORT
FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
(SITE NO. C915241)
BUFFALO, NEW YORK
PREPARED FOR
MILL RACE COMMONS, LLC

FIGURE 2

APPENDIX A

IC-EC CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C915241

Site Name Former American Linen Supply Company Facility

Site Address: 822 Seneca Street Zip Code: 14210
City/Town: Buffalo
County: Erie
Site Acreage: 2.917

Reporting Period: May 24, 2022 to May 24, 2023

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

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915241 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
122.27-1-4	Mill Race Commons, LLC	Soil Management Plan Monitoring Plan Site Management Plan Ground Water Use Restriction Landuse Restriction IC/EC Plan

1. Prohibition of use of groundwater.
2. Landuse Restriction for Commercial or Industrial use.
3. Soil Management or Excavation Work Plan for any future intrusive work.
4. Soil Vapor Intrusion Evaluation for any proposed structures.
5. Monitoring Plan for Cover System and Groundwater. Soil Vapor/Indoor monitoring at 798 Seneca Street property, if warranted.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
122.27-1-4	Cover System

Cover System is comprised of a minimum 12 inches of clean soil, asphalt pavement, or concrete cover.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☑	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☑	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C915241

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Gary Kriner (print name) at Mill Race Commons, LLC, 726 Exchange Street, Suite 412, Buffalo NY 14210 (print business address),

am certifying as Owner's Representative (Owner or Remedial Party)

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

Gary Kriner, TREASURER — 6/12/23

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

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Thomas Forbes, P.E. at Benchmark Civil/Environmental Engineering & Geology., PLLC 2558 Hamburg Tpk, Buffalo, NY 14218,

print name — print business address

am certifying as a Qualified Environmental Professional for the Owner

(Owner or Remedial Party)

STATE OF NEW YORK
THOMAS H. FORBES
No. 70950-1
LICENSED PROFESSIONAL ENGINEER

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

6-12-23

Date

APPENDIX B

SITE PHOTOGRAPH LOG

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
1	04/10/23

Direction Photo Taken:
N

Description:
Barren soil area prior to cover system repair activities.

Photo No.	Date
2	04/10/23

Direction Photo Taken:
SE

Description:
Soil Cover (looking toward Lord Street)

Prepared By: CMS

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
3	04/10/23

Direction Photo Taken:
SW

Description:
Asphalt Cover (looking toward Seneca Street)

Photo No.	Date
4	04/10/23

Direction Photo Taken:
S

Description:
Soil Cover (looking toward Seneca Street and Lord Street)

Prepared By: CMS

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
5	04/10/23

Direction Photo Taken:
W-NW

Description:
Soil and Asphalt Cover

Photo No.	Date
6	04/10/23

Direction Photo Taken:
S

Description:
Soil Cover (looking toward Seneca Street and Lord Street)

Prepared By: CMS

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
7	04/10/23

Direction Photo Taken:
SW

Description:
Asphalt Cover

Photo No.	Date
8	04/10/23

Direction Photo Taken:
N-NE

Description:
Asphalt Cover (looking toward Seymour Street)

Prepared By: CMS

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
9	04/10/23

Direction Photo Taken:
W-NW

Description:
Landscaping along northern property boundary

Photo No.	Date
10	06/08/23

Direction Photo Taken:
S

Description:
Soil Cover System repair area.

Prepared By: CMS

BENCHMARK

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Mill Race Commons, LLC	822 Seneca Street, Buffalo, NY	B0126-023-001

Photo No.	Date
11	06/08/23

Direction Photo Taken:
S

Description:
Soil Cover System repair area.

Prepared By: CMS

APPENDIX C

2022-2023 GROUNDWATER MONITORING SUMMARY REPORT

HALEY & ALDRICH OF NEW YORK
200 Town Centre Drive
Suite 2
Rochester, NY 14623
585.359.9000

15 April 2023
Revised: 6 July 2023
File No. 127836-010

Aramark Union & Career Apparel, LLC
8130 S. Meridian Street, Suite 1a
Indianapolis, Indiana 46217

Attention: Rebecca Armbruster
Director, Environmental Compliance

Subject: 2022-2023 Groundwater Monitoring Summary Report
Former American Linen Supply Co. Facility
BCP Site Number: C915241
822 Seneca Street
Buffalo, New York

Dear Ms. Armbruster:

Haley & Aldrich of New York (Haley & Aldrich) is submitting this 2022-2023 Groundwater Monitoring Summary Report summarizing the results from the annual groundwater sampling event conducted in January 2023 at the Former American Linen Supply Co. facility site located at 822 Seneca Avenue, in Buffalo, New York (the "Site"). The Site was investigated and remediated under the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP). The Site received a Certificate of Completion (COC) from the NYSDEC in December 2014. The groundwater monitoring described herein was completed in accordance with the updated Former American Linen Supply Co. Facility Site Management Plan, dated November 2021 (SMP), and the site access agreement dated 13 January 2014 between AmeriPride Services, Inc. (now Aramark Uniform & Career Apparel, LLC, the Responsible Party under the BCP, and the previous property owner) and Mill Race Commons, LLC (the current property owner as of 2014) and the revised sampling scope approved by the NYSDEC via letter dated 23 April 2019 (hereinafter referred to as the "Revised Sampling Scope"). The Revised Sampling Scope limits future annual groundwater monitoring at the Site to wells MW-102R, MW-105, and MW-106.

Prior to remediation, the Site was most recently operated as an industrial laundry. Dry cleaning ceased at the property in 1985. Operation of the laundry ceased in 2005. Remedial investigations and subsequent remedial actions were undertaken between 2011 and 2014. Contaminants of concern identified included dry-cleaning solvent-related compounds in soil, groundwater, and soil vapor, specifically the following target chlorinated volatile organic compounds (Target CVOCs): tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). Annual groundwater monitoring is currently a requirement of the SMP.

This report presents the annual groundwater monitoring results related to samples collected in January 2023 and provides an assessment of the results in accordance with the annual reporting requirements in Section 3.3 of the SMP and the Revised Sampling Scope approved by the NYSDEC.

Groundwater Sampling Events and Methodology

Groundwater sampling was performed by Haley & Aldrich on behalf of Aramark Uniform & Career Apparel, LLC (Aramark) on 12 January 2023, in accordance with Section 3.3 of the SMP and the Revised Sampling Scope. Groundwater depths were measured at monitoring wells MW-102R, MW-103, MW-104, MW-105, MW-106, and MW-303. Groundwater samples were collected from wells MW-102R, MW-105, and MW-106, and submitted for chemical analysis. Monitoring wells previously included in the monitoring well network included MW-101, MW-301, and MW-302. MW-101 was decommissioned by Benchmark Environmental Engineering & Science, PLLC on 8 June 2020. MW-301 was apparently paved over and has not been located since 2021, and MW-302 was removed from the program in 2016. Well locations and site features are detailed on the attached Groundwater Monitoring Well Network plan, Figure 1.

GROUNDWATER LEVEL READINGS AND WELL ASSESSMENT

At the start of the sampling event, the depth to groundwater was measured in the wells listed above and recorded on field forms included in Appendix A. The depth to groundwater measurements were used to prepare groundwater elevation contours, which are shown on Figure 2. Groundwater appears to be flowing in a south-southeast direction, which is generally consistent with historical data. Slight bends toward the tops of the polyvinyl chloride (PVC) riser pipes of MW-102R and MW-106 were noted by field staff during this sampling event. Field staff noted a soft bottom in three wells MW-102R, MW-103, and MW-106. A slight bend in the riser pipe of MW-102R was noted that does not effect purging and sampling. During the reporting period surface work had been completed to the surrounding sidewalk at MW-303. MW-303 was partially covered with a thin layer of cement which was removed to access the well. A crack in the outer ring of the road box of MW-303 was observed but the inner vault appeared dry. Each well can be appropriately, gauged, purged, and sampled with no issues; therefore, no repairs are necessary at this time.

GROUNDWATER SAMPLING AND ANALYSIS

Each sampled well was purged using a disposable polypropylene bailer until three well volumes were removed. Turbidity was measured during purging and final turbidity measurements were well below 50 NTU except for MW-105, which could not be measured due to excessive turbidity. However, sediment was not observed to be accumulating at the bottom of MW-105 evidenced by the “hard” bottom prior to purging. The well conditions do not indicate that re-development is necessary at this time. Samples were collected into laboratory-supplied glassware immediately following purging. Groundwater Sampling Record forms are included in Appendix A.

Samples were stored on ice and relinquished to Alpha Analytical Laboratories courier at the end of the day. Samples were analyzed for the NYSDEC Target Compound List (TCL) for volatile organic compounds (VOCs) by EPA Method 8260D, and the laboratory analytical data report is included in Appendix B. Target CVOCs (PCE, TCE, cis-1,2-DCE, and VC) are summarized in Table I and discussed herein. The data were validated per the quality assurance/quality control requirements in the SMP. The groundwater data were found to be 100 percent usable as qualified in the data usability summary report (DUSR) included in Appendix C. The analytical data is scheduled to be submitted to the NYSDEC electronically per their EQuIS filing requirements by 31 March 2023. Analytical results were compared to NYSDEC groundwater criteria per the SMP, and further discussed in the Results Section below.

WASTE MANAGEMENT

Purge water collected during the January 2023 sampling event was containerized and staged onsite in a 55-gallon steel, open-top drum. A request for "contained-in" determination was submitted to the NYSDEC on 17 February 2023, and a determination was received on 24 February 2023 that the purge water does not have to be managed as hazardous waste. The purge water drum was removed from the Site by Environmental Service Group of Tonawanda, New York on 3 March 2023 and transported to American Recyclers Company (ARC) in Tonawanda, New York. ARC transported the materials to Covanta Niagara in Niagara Falls, New York for incineration. Waste disposal documentation is included in Appendix D.

Results

A summary of the Target CVOC sampling results can be found on Table I, which also includes the results of previous sampling events. The January 2023 results are described below:

- **Upgradient Well (MW-102R):** Cis-1,2-DCE was detected at a concentration of 2.7 micrograms per liter (µg/L) and VC was detected at a concentration of 7 µg/L. The NYSDEC groundwater standard and comparison criterion are 5 µg/L and 2 µg/L respectively. A trend figure for MW-102R is provided on Figure 3.
- **Source Wells (MW-105, MW-106):** Concentrations of cis-1,2-DCE (19 µg/L in MW-105) and/or VC (5.6 µg/L in MW-105 and 5.7 µg/L in MW-106) continue to be detected in the groundwater from MW-105 and MW-106 at concentrations above NYSDEC criteria. Concentrations of CVOCs in these wells are consistent with the previous sampling event. Concentrations of CVOCs in source area wells MW-105 and MW-106 have remained consistent or decreasing since 2013. Overall trends from these wells are shown on Figure 4.

Please do not hesitate to contact the undersigned with questions.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

Santa E. McKenna
Assistant Project Manager

Glenn M. White
Sr. Client Leader

c: Mill Race Commons, LLC; Attn: Joseph Petrella, Gary Kriner
Kavinoky Cook LLP; Attn: Deborah Chadsey, Esq.
Haley & Aldrich; Attn: Janice Szucs

Attachments:

Table I – Summary of Analytical Results, Groundwater Wells
Figure 1 – Groundwater Monitoring Well Network
Figure 2 – Groundwater Elevation Contours – January 2023
Figure 3 – Groundwater Concentration Trend for MW-102/MW-102R
Figure 4 – Groundwater Concentration Trends (MW-105 and MW-106)
Appendix A – Field Forms and Inspection Records
Appendix B – Laboratory Analytical Data Report
Appendix C – Data Usability Summary Report
Appendix D – Waste Disposal Documentation

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TABLE

TABLE I
SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER WELLS
FORMER AMERICAN LINEN SUPPLY
BUFFALO, NEW YORK
BCP SITE #C915241

Location		MW-102/MW-102R														
Sample Date	NYSDEC TOGS 1.1.1 Class GA	12/11/2012	12/31/2013	05/05/2015	11/23/2015	05/13/2016	11/21/2016	07/11/2017	12/14/2018	12/14/2018 (Dup)	03/13/2020	11/12/2020	01/21/2021	5/11/2021	11/19/2021	1/12/2023
Sample Depth (bgs)		12 - 17 (ft)														
Volatile Organic Compounds (ug/L)																
cis-1,2-Dichloroethene	5	**220**	**14**	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	**19**	**70**	0.77 J	0.9 J	2.7
Tetrachloroethene	5	**5.7**	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	0.55	0.32 J	0.52	0.34 J
Trichloroethene	5	**20.5**	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	0.94	ND (0.5)	ND (0.18)	0.33 J
Vinyl chloride	2	**54.9**	**60**	**2.8**	**2.8**	ND (0.07)	**5**	0.64 J	**3**	**2.8**	**2.9**	**75**	**35**	0.32 J	1.8	**7**

Notes and Abbreviations:
1. "ND" indicates analyte not detected above the method
2. **Bold** values exceed the standard/guidance value.
3. Results were compared to the New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Class GA dated June 1998 modified per the April 2000 addendum (TOGS 1.1.1).

TABLE I
SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER WELLS
FORMER AMERICAN LINEN SUPPLY
BUFFALO, NEW YORK
BCP SITE #C915241

Location	NYSDEC TOGS 1.1.1 Class GA	MW-105											
Sample Date		12/13/2012	12/27/2013	05/05/2015	11/23/2015	05/13/2016	11/21/2016	07/11/2017	12/14/2018	03/13/2020	11/12/2020	11/19/2021	1/12/2023
Sample Depth (bgs)		10.6 - 15.6 (ft)											
Volatile Organic Compounds (ug/L)													
cis-1,2-Dichloroethene	5	**99.2 J**	**49**	**37**	**61**	**43**	**59**	**33**	**38**	**23**	**32**	**28**	**19**
Tetrachloroethene	5	**21.5 J**	1	0.49 J	**7.1**	1.8	3.3	1	0.65	1	2.3	1.8	1.6
Trichloroethene	5	**14.1 J**	1.3	0.5	4.1	1.8	3.9	1.6	1.4	1.3	2.9	1.6	1.8
Vinyl chloride	2	**4.6 J**	0.54 J	0.41 J	**3**	**2.8**	**6.6**	**6.2**	**6.6**	**7.8**	**8.4**	**5.2**	**5.6**

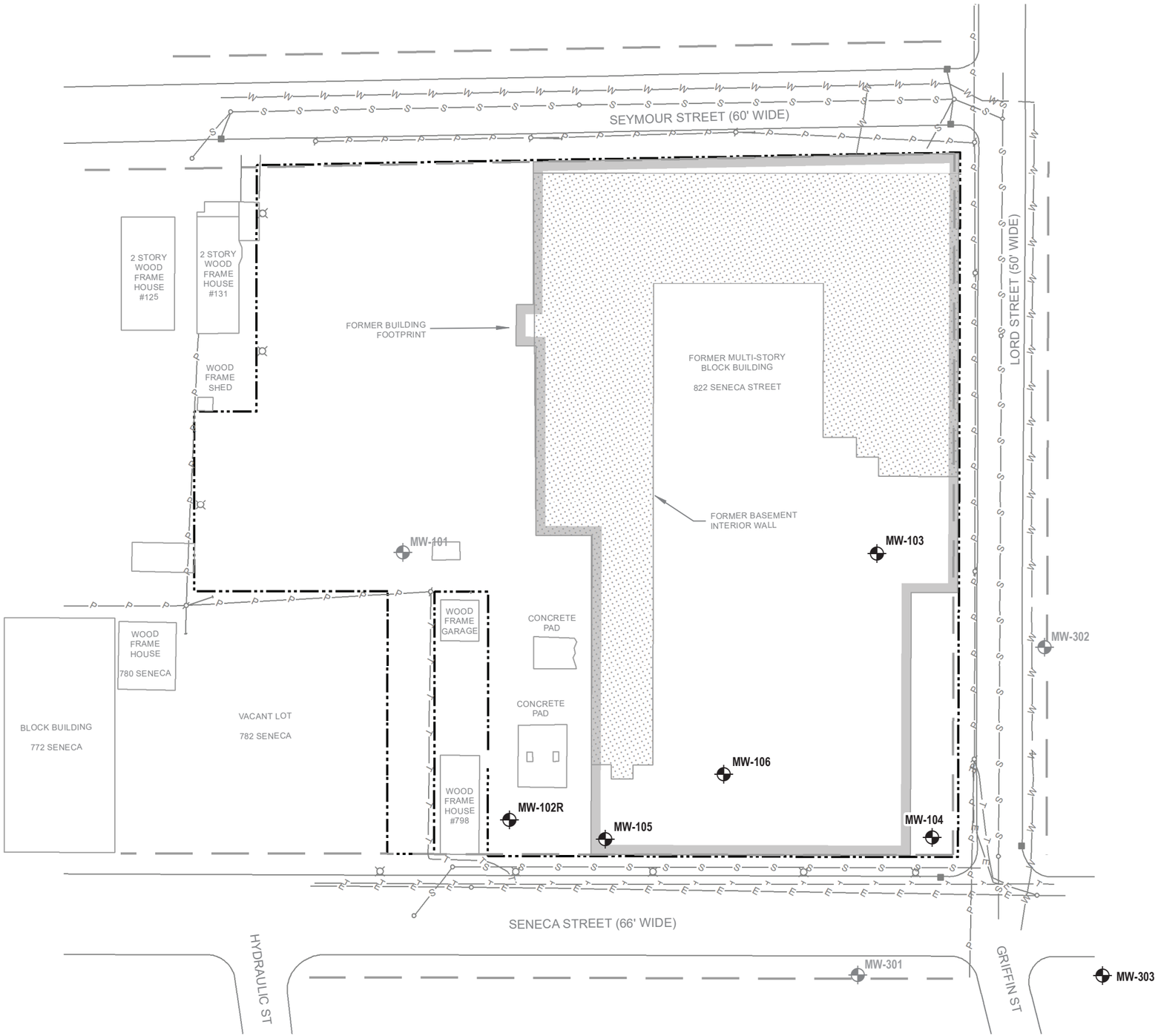
Notes and Abbreviations:
1. "ND" indicates analyte not detected above the method
2. **Bold** values exceed the standard/guidance value.
3. Results were compared to the New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Class GA dated June 1998 modified per the April 2000 addendum (TOGS 1.1.1).

TABLE I
SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER WELLS
FORMER AMERICAN LINEN SUPPLY
BUFFALO, NEW YORK
BCP SITE #C915241

Location		MW-106																		
Sample Date	NYSDEC TOGS 1.1.1	12/14/2012	12/26/2013	05/05/2015	11/23/2015	11/23/2015 (Dup)	05/13/2016 (Dup)	05/13/2016	11/21/2016 (Dup)	11/21/2016	07/11/2017	12/14/2018	03/13/2020	03/13/2020 (Dup)	11/12/2020	11/12/2020 (Dup)	11/19/2021	11/19/2021 (Dup)	1/12/2023	1/12/2023 (Dup)
Sample Depth (bgs)	Class GA	14.2 - 19.2 (ft)																		
Volatile Organic Compounds (ug/L)																				
cis-1,2-Dichloroethene	5	**160 J**	ND (7)	**11**	**13**	**12**	**7.9**	**8 J+**	3.4	4.1	4.9	4.1	1.7 J	1.8 J	1.6 J	1.6 J	2.1 J	2.2 J	2.0 J	2.0 J
Tetrachloroethene	5	**58.4**	ND (1.8)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Trichloroethene	5	**47.4**	ND (1.7)	0.35 J	0.4 J	0.41 J	0.33 J	0.31 J+	ND (0.18)	ND (0.18)	0.2 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Vinyl chloride	2	**99.7**	**12**	**17**	**26**	**23**	**9.2 J**	ND (0.07) J	**5.8**	**6.4**	**8.4**	**9**	**4.7**	**4.9**	**5**	**4.8**	**4**	**4**	**2.0 J**	**5.7**

Notes and Abbreviations:
1. "ND" indicates analyte not detected above the method
2. **Bold** values exceed the standard/guidance value.
3. Results were compared to the New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Class GA dated June 1998 modified per the April 2000 addendum (TOGS 1.1.1).

FIGURES



LEGEND

- MONITORING WELL
- MONITORING WELL - DESTROYED
- SITE BOUNDARY
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- UNDERGROUND WATER

NOTES:

1. MONITORING WELLS MW-101, MW-102R, MW-103, MW-104, MW-105, AND MW-106 INSTALLED IN 2012.
2. MONITORING WELLS MW-301, MW-302, AND MW-303 INSTALLED IN 2013.
3. MONITORING WELL MW-101 WAS DECOMISSIONED IN 2020. MW-301 WAS LIKLEY PAVED OVER DURING 2021 CONSTRUCTION ACTIVITIES. MW-302 WAS DESTROYED.
4. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.
5. BASEMENT DIMENSIONS ARE APPROXIMATE.
6. BASE MAP SOURCE: HOFFMAN LAND SURVEYING, 1 JANUARY 2014.

0 60 120
SCALE IN FEET

HALEY ALDRICH

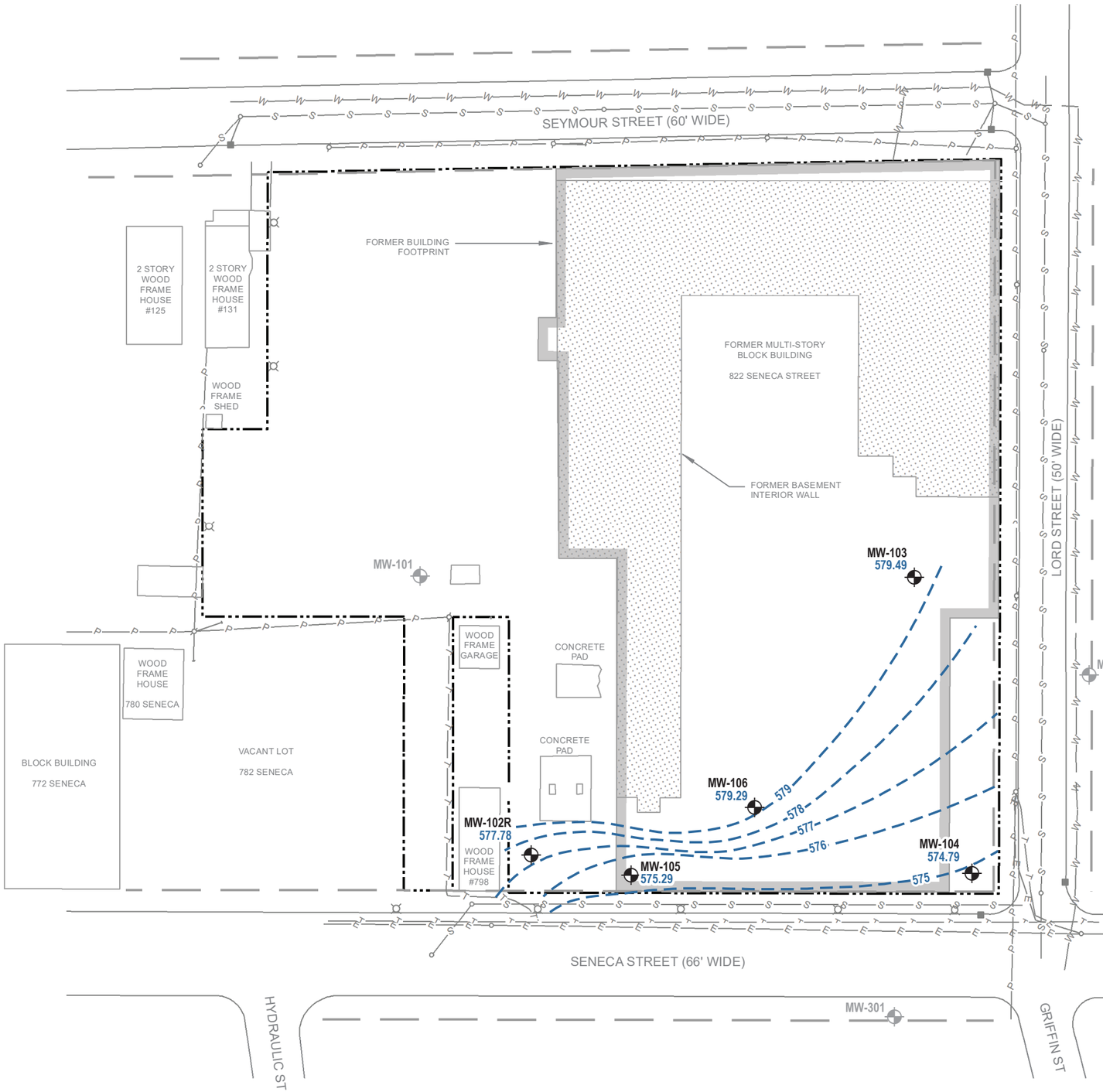
FORMER AMERICAN LINEN SUPPLY COMPANY
822 SENECA STREET
BUFFALO, NEW YORK

GROUNDWATER MONITORING WELL NETWORK

JUNE 2023

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\137319 (AmeriPride, 8 Lord Street, Buffalo)\GIS\Maps\2023_06\127836_010_0001_GW_WELL_NETWORK.mxd — USER: anichols — LAST SAVED: 6/28/2023 4:41:37 PM



LEGEND

- MONITORING WELL, WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- MONITORING WELL - DESTROYED
- GROUNDWATER POTENTIOMETRIC CONTOUR ELEVATION, 1-FOOT INTERVAL, IN FEET ABOVE MEAN SEA LEVEL
- SITE BOUNDARY
- P — OVERHEAD POWER
- S — SANITARY SEWER
- T — UNDERGROUND TELEPHONE
- E — UNDERGROUND ELECTRIC
- W — UNDERGROUND WATER

NOTES:

1. GROUNDWATER DEPTHS MEASURED IN JANUARY 2023 BY HALEY & ALDRICH PERSONNEL.

2. MONITORING WELL MW-101 WAS DECOMISSIONED IN 2020. MW-301 WAS LIKLEY PAVED OVER DURING 2021 CONSTRUCTION ACTIVITIES. MW-302 WAS DESTROYED.

3. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.

4. BASE MAP SOURCE: HOFFMAN LAND SURVEYING, 1 JANUARY 2014.

N

0 60 120

SCALE IN FEET

HALEY ALDRICH

FORMER AMERICAN LINEN SUPPLY COMPANY
822 SENECA STREET
BUFFALO, NEW YORK

GROUNDWATER ELEVATION CONTOURS - JANUARY 2023

JUNE 2023

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\37319 (AmeriPride, 8 Lord Street, Buffalo)\GIS\Maps\2023_06\127836_010_0002_GROUNDWATER_ELEVATION_CONTOURS_JANUARY_2023.mxd — USER: anichols — LAST SAVED: 6/28/2023 4:42:25 PM

Figure 3 - Groundwater Concentration Trend for MW-102/MW-102R

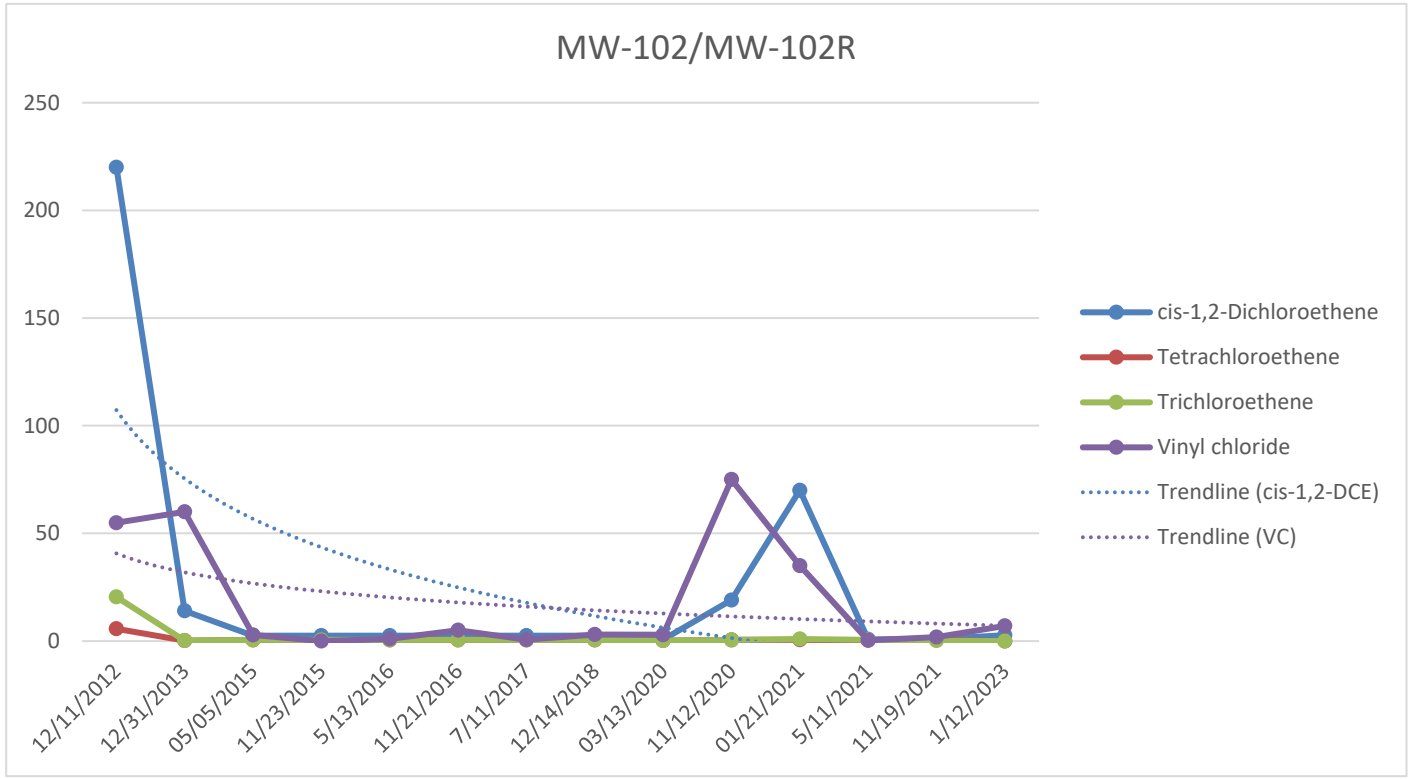
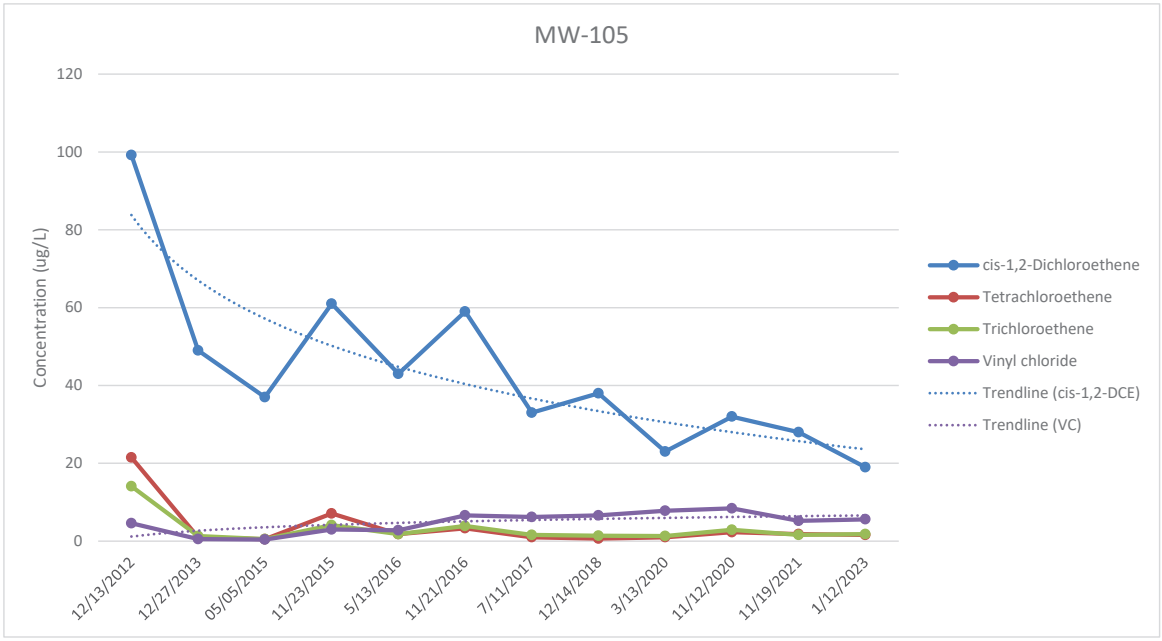
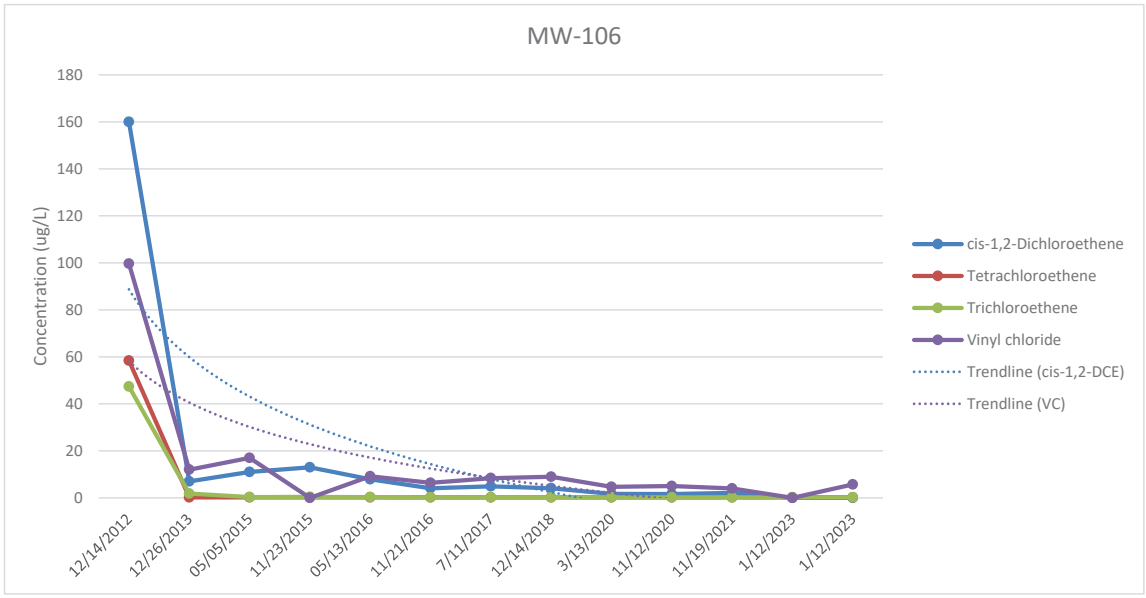


Figure 4 - Groundwater Concentration Trends (MW-105 and MW-106)





APPENDIX A
Field Forms and Inspection Records

Static Water Levels

Location (Site/Facility Name): 622 Seneca St
Location (Address): Buffalo, NY
Client: Aramark

Date: 1/12/22
Performed By: Kim Bartlett
Job Number: 278316-069

Well ID	Riser Elevation* (NAVD 1988)	Water Level (from Top of Riser)	Well Condition/Notes	Repairs Needed?
MW-102R	582.13	4.35	Soft Bottom/ Bent Inner PVC pipe	Yes
MW-103	582.64	3.15	Soft Bottom	NO
MW-104	582.00	7.21	Hard Bottom	NO
MW-105	582.41	7.12	Hard Bottom	NO
MW-106	582.42	3.13	Soft Bottom	NO
MW-301	582.14	← Can	not Locate →	
MW-303	581.79	6.63	Hard Bottom	Yes, flush maunt & inner ring Broken, Partially Cemented over

* - Riser elevations for MW-301 and MW-303 last surveyed in 2014.
- Riser elevations for MW-103, MW-104, MW-105 and MW-106 last surveyed in 2016.
- Riser elevation for MW-102R last surveyed in 2021.

HALEY ALDRICH

GROUNDWATER SAMPLING RECORD

Page of

PROJECT	Aramark	H&A FILE NO.	127836-009
LOCATION	622 Seneca	PROJECT MGR.	
CLIENT		FIELD REP	K. Bartlett
CONTRACTOR		DATE	11/12/23

GROUNDWATER SAMPLING INFORMATION

Well ID	MW-102R					MW 105					
Depth Of Well (ft.) per Log	4.35					7.12					
Reference Mark	—					—					
Depth to Water from Reference Mark (ft.)	—					—					
Time	11:30 am					12:30pm					
Depth to Product (ft.)	—					—					
Field Measured Depth Of Well (ft.)	13.56					16.03					
Inside Diameter (in.)	2in					2in					
Standing Water Depth (ft.)	4.35					7.12					
Volume Of Water In Well (gallons/liters)	1.48					1.42					
Purging Device	Bailer					Bailer					
Volume of Bailer/Pump Capacity	—					—					
Cleaning Procedure	Dedicated					Dedicated					
Bails Removed/ Volume Removed	3 volumes Removed					3 volumes Removed					
Time Purging Started	1:30					3:10					
Time Purging Stopped	3:05					3:40					
Instrument Used to Monitor Field Parameters	YSI La Motte					YSI La Motte					
Sampling Device	Bailer					Bailer					
Cleaning Procedure	Dedicated					Dedicated					
Color	light Brown to clear					light Brown to clear					
Odor	Sulfur					Sulfur					
TIME SAMPLES TAKEN: VOA	3:00PM					3:35PM					
TIME SAMPLES TAKEN: ABN	—					—					
TIME SAMPLES TAKEN: Metals	—					—					
PARAMETERS: Time	2:00	2:35	3:10			3:15	3:25	3:35			
PARAMETERS: Temp, C (+/-3%)	10.0	12.6	10.3			11.4	12.0	12.4			
PARAMETERS: Conductivity, us/cm (+/- 3%)	0.619	0.652	0.684			3.08	2.74	2.88			
PARAMETERS: Dissolved Oxygen, mg/L (+/- 10%)	0.56	3.81	3.60			3.65	1.62	1.78			
PARAMETERS: pH (+/-0.1)	7.32	7.20	7.30			3.94	7.32	7.33			
PARAMETERS: ORP/eH, mv (+/-10mv)	199.2	163.0	160.0			187.0	151.5	144.1			
PARAMETERS: Turbidity, NTU (<5 NTU)	23.8	17.2	15.2			81.1	overrange (>9				
PARAMETERS: Volume purged, gallons	1.50	3.0	4.50			1.50	3.00	4.50			
PARAMETERS: Drawdown, ft	6.11	7.05	8.15			7.32	8.50	9.32			

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

x 0.16)

HALEY ALDRICH

GROUNDWATER SAMPLING RECORD

Page of

PROJECT	Aramark	H&A FILE NO.	127836 - 009
LOCATION	822 Seneca St	PROJECT MGR.	
CLIENT		FIELD REP	K Bartlett
CONTRACTOR		DATE	1/12/23

GROUNDWATER SAMPLING INFORMATION

Well ID		MW 106											
Depth Of Well (ft.) per Log		313											
Reference Mark		—											
Depth to Water from Reference Mark (ft.)		—											
Time		12:40 pm											
Depth to Product (ft.)		—											
Field Measured Depth Of Well (ft.)		15.78											
Inside Diameter (in.)		2in											
Standing Water Depth (ft.)		3.12											
Volume Of Water In Well (gallons/liters)		2.0											
Purging Device		Bailer											
Volume of Bailer/Pump Capacity		—											
Cleaning Procedure		Dedicated											
Bails Removed/ Volume Removed		3 volumes removed											
Time Purging Started		3:50pm											
Time Purging Stopped		4:10pm											
Instrument Used to Monitor Field Parameters		YSI La Motte											
Sampling Device		Bailer											
Cleaning Procedure		Dedicated											
Color		light Brown to clear											
Odor		sulfur											
TIME SAMPLES TAKEN: VOA		4:10pm											
TIME SAMPLES TAKEN: ABN		—											
TIME SAMPLES TAKEN: Metals		—											
PARAMETERS: Time		3:50	4:00	4:10									
PARAMETERS: Temp, C (+/-3%)		10.4	11.1	11.7									
PARAMETERS: Conductivity, us/cm (+/- 3%)		1.18	1.13	1.13									
PARAMETERS: Dissolved Oxygen, mg/L (+/- 10%)		2.70	1.40	1.52									
PARAMETERS: pH (+/-0.1)		7.19	7.24	7.24									
PARAMETERS: ORP/eH, mv (+/-10mv)		11.4	-46.2	-54.0									
PARAMETERS: Turbidity, NTU (<5 NTU)		17.5	18.5	18.9									
PARAMETERS: Volume purged, gallons		2.00	4.00	6.00									
PARAMETERS: Drawdown, ft		4.78	3.55	4.49									

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

APPENDIX B
Laboratory Analytical Data Reports

ANALYTICAL REPORT

Lab Number:	L2302237
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Janice Szucs
Phone:	(585) 321-4211
Project Name:	ARAMARK
Project Number:	0127836-006-009
Report Date:	01/18/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ARAMARK
Project Number: 0127836-006-009

Lab Number: L2302237
Report Date: 01/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2302237-01	4444-230112-0001	WATER	BUFFALO, NY	01/12/23 00:00	01/13/23
L2302237-02	MW102R-230112-1500	WATER	BUFFALO, NY	01/12/23 15:00	01/13/23
L2302237-03	MW105-230112-1535	WATER	BUFFALO, NY	01/12/23 15:35	01/13/23
L2302237-04	MW106-230112-1610	WATER	BUFFALO, NY	01/12/23 16:10	01/13/23
L2302237-05	4444-230112-0002	WATER	BUFFALO, NY	01/12/23 16:45	01/13/23

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2302237-05: The Client ID was specified by the client.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 01/18/23

ORGANICS

VOLATILES

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

SAMPLE RESULTS

Lab ID: L2302237-01
Client ID: 4444-230112-0001
Sample Location: BUFFALO, NY
Date Collected: 01/12/23 00:00
Date Received: 01/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/16/23 11:31
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: ARAMARK
Lab Number: L2302237
Project Number: 0127836-006-009
Report Date: 01/18/23

SAMPLE RESULTS

Lab ID: L2302237-02
Client ID: MW102R-230112-1500
Sample Location: BUFFALO, NY

Date Collected: 01/12/23 15:00
Date Received: 01/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/17/23 10:43
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	0.34	J	ug/l	0.50	0.18	1
Vinyl chloride	7.0		ug/l	1.0	0.07	1
Trichloroethene	0.33	J	ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	2.7		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

SAMPLE RESULTS

Lab ID: L2302237-03
Client ID: MW105-230112-1535
Sample Location: BUFFALO, NY

Date Collected: 01/12/23 15:35
Date Received: 01/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/17/23 11:03
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	1.6		ug/l	0.50	0.18	1
Vinyl chloride	5.6		ug/l	1.0	0.07	1
Trichloroethene	1.8		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	19		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

SAMPLE RESULTS

Lab ID: L2302237-04
Client ID: MW106-230112-1610
Sample Location: BUFFALO, NY

Date Collected: 01/12/23 16:10
Date Received: 01/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/17/23 11:23
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Vinyl chloride	5.7		ug/l	1.0	0.07	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	2.0	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

SAMPLE RESULTS

Lab ID: L2302237-05
Client ID: 4444-230112-0002
Sample Location: BUFFALO, NY

Date Collected: 01/12/23 16:45
Date Received: 01/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/17/23 11:43
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Vinyl chloride	5.6		ug/l	1.0	0.07	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	2.0	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/16/23 10:39
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1734299-5					
Tetrachloroethene	ND		ug/l	0.50	0.18
Vinyl chloride	ND		ug/l	1.0	0.07
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009
Lab Number: L2302237
Report Date: 01/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/17/23 08:18
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG1734489-5					
Tetrachloroethene	ND		ug/l	0.50	0.18
Vinyl chloride	ND		ug/l	1.0	0.07
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ARAMARK

Project Number: 0127836-006-009

Lab Number: L2302237

Report Date: 01/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1734299-3 WG1734299-4								
Tetrachloroethene	100		100		70-130	0		20
Vinyl chloride	110		110		55-140	0		20
Trichloroethene	94		92		70-130	2		20
cis-1,2-Dichloroethene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ARAMARK

Project Number: 0127836-006-009

Lab Number: L2302237

Report Date: 01/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG1734489-3 WG1734489-4								
Tetrachloroethene	110		110		70-130	0		20
Vinyl chloride	110		110		55-140	0		20
Trichloroethene	99		100		70-130	1		20
cis-1,2-Dichloroethene	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		91		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	95		98		70-130
Dibromofluoromethane	98		99		70-130

Project Name: ARAMARK
Project Number: 0127836-006-009

Lab Number: L2302237
Report Date: 01/18/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2302237-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-04B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-04C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-05A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-05B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2302237-05C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ARAMARK	**Lab Number:**	L2302237
Project Number:	0127836-006-009	**Report Date:**	01/18/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab 1/14/23

ALPHA Job # L2302237

H&A Information
H&A Client:
H&A Address: 200 Town Centre Dr.
Suite 2, Rochester, NY
H&A Phone: 585-359-9000
H&A Fax:
H&A Email: smckenna@haleyaldrich.com

Project Information
Project Name: Aramark
Project Location: Buffalo, NY
Project # 0127836-006-009
(Use Project name as Project #) ☐
Project Manager: Janice Szucs
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE	PCE	Vinylchloride	CIS 1,2 DCE					Sample Specific Comments	Total Bottles
02237-01	4444-230112-0001	1/12/2022	—	WQ	KB		x	x	x	x					TRIP Blank	2
02	MW102R-230112-1500	1/12/2022	15:00	WG	KB		x	x	x	x					Normal	3
03	MW105-230112-1535	1/12/2022	15:35	WG	KB		x	x	x	x						3
04	MW106-230112-1610	1/12/2022	16:10	WG	KB		x	x	x	x						3
05	4444-230112-1645	1/12/2022	16:45	WG	KB		x	x	x	x						3
Container Type							V	V	V	V						
Preservative							B	B	B	B						

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
1/13/23 8am	1/13/23	SECURE STORAGE AAL	1/13/23 11:20
SECURE STORAGE	1/13/23	W MOT AAL	1/13/23 11:20
W MOT AAL	1/13/23 17:00		1/14/23 0830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2022-24-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

APPENDIX C
Data Usability Summary Reports

Haley & Aldrich, Inc.
600 South Meyer Ave
Suite 100
Tucson, AZ 85701
520.289.8621

Data Usability Summary Report

Project Name: Aramark

Project Description: Groundwater Samples

Sample Date: 12 January 2023

Analytical Laboratory: Alpha Analytical – Westborough, MA

Validation Performed by: Santa McKenna

Validation Reviewed by: Katherine Miller

Validation Date: 15 February 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Number L2302237**
2. **Explanations**
3. **Glossary**
4. **Abbreviations**
5. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.

Data reported in this sampling event were reported to the laboratory reporting limit (RL) [OR] the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOP). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQO) for the project and therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number L2302237

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number L2302237, dated 18 January 2023. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods	Holding Time
4444-230112-0001	TB	L2302237-01	1/12/2023	QW	VOCs by USEPA 8260D	7 days unpreserved; 14 days preserved
MW102R-230112-1500	N	L2302237-02	1/12/2023	GW		
MW105-230112-1535	N	L2302237-03	1/12/2023	GW		
MW106-230112-1610	N	L2302237-04	1/12/2023	GW		
4444-230112-0002	FD	L2302237-05	1/12/2023	GW		

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

No sample dilutions were performed for the analysis of the samples in this report.

1.4 SURROGATE RECOVERY COMPLIANCE

Refer to section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control (QC) limits.

1.5 LABORATORY CONTROL SAMPLES

Refer to section E 1.3. Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.6 MATRIX SPIKE SAMPLES

Refer to section E 1.4. The laboratory did not analyze any matrix spike/matrix spike duplicate (MS/MSD) analysis in this SDG.

1.7 BLANK SAMPLE ANALYSIS

Refer to section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

The analysis of the blank samples for field quality control was free of target compounds.

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to section E 1.6. The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

Primary Sample ID	Duplicate Sample ID	Method(s)
MW106-230112-1610	4444-230112-0002	EPA 8260D

1.9 PRECISION AND ACCURACY

Refer to section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the data quality objectives for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
  - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
  - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
  - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
  - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg microgram per kilogram
  - µg/L microgram per liter
  - µg/m^3 microgram per cubic meter
  - mg/kg milligram per kilogram
  - mg/L milligram per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - QW Water Quality
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - WQ Water Quality control matrix
  - WS Surface Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius
  - ± plus or minus
  - ~ approximately
  - x times (multiplier)

4. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
µg/L	micrograms per liter
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	polycyclic aromatic hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factors
RT	Retention Time
SAP	sampling analysis plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Laboratory Standard Operating Procedures
SPE	Solid Phase Extraction
SVOC	Semi-Volatile Organic Compounds
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
amu	atomic mass unit
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compounds
WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E The compound was quantitated above the calibration range.

  D The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ The result is an estimated quantity, but the result may be biased high.

  J- The result is an estimated quantity, but the result may be biased low.

  J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

  NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November 2020.

APPENDIX D
Waste Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 800-535-5053

4. [redacted]

5. Generator's Name and Mailing Address
Seneca St. Site
822 Seneca St
Buffalo, NY 14210

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Environmental Service Group, Inc — 716.695.6720 — U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150

Facility's Phone: 716.695.6720 — U.S. EPA ID Number: NYR000030809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non RCRA Non DOT Regulated , (Purge Water)	001	DM	055	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

ERG:
1 -
2 -
3 -
4 -

Approval #:
1 - B-21580IN
2 -
3 -
4 -

Handling Codes:
1 - None
2 -
3 -
4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)

GENERATOR

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: X Emma Lonergan "as agent of generator" — Signature: Emma Lonergan "as agent of generator" — Month: 3 — Day: 3 — Year: 202

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:

Transporter Signature (for exports only): — Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAMES FEDESON — Signature: [signature] — Month: 03 — Day: 03 — Year: 23

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Ramsville — Signature: [signature] — Month: 03 — Day: 03 — Year: 23

DESIGNATED FACILITY'S COPY

From: Laura Atkin
To: McKenna, Santa
Subject: RE: Cost Estimate for drum pickup and disposal
Date: Monday, June 26, 2023 2:03:59 PM
Attachments: image002.png

CAUTION: External Email

Hello Santa,

American Recyclers Company (ARC) is The Environmental Service Group (ESG) transfer facility. The material comes into ARC and ARC takes ownership of the waste. The material is then bulked under ARC's non-hazardous liquids approval and sent into Covanta Niagara for Incineration.

Sorry for the confusion.

Laura Atkin
☎ 716-695-6720 x 108
Cell 207-800-6000
177 Wales Ave
Tonawanda, NY 14150
latkin@esgenv.com