PERIODIC REVIEW REPORT
REPORTING PERIOD: DECEMBER 11, 2019 THROUGH APRIL 11, 2021

202 FRANKLIN STREET
OLEAN, NEW YORK
NYSDEC SITE NO. C905043

This Periodic Review Report (PRR) was prepared in accordance with the provisions of the document *DER-10 Technical Guidance for Site Investigation and Remediation* (DER-10). This is the first PRR submitted for New York State Department of Environmental Conservation (NYSDEC) Site No. C905043 located at 202 Franklin Street, City of Olean, Cattaraugus County, New York (the Site). This document presents a summary of site characterization and remedial activities conducted at the Site pursuant to obtaining a Certificate of Completion issued on December 11, 2019, and the site management activities completed in the period between December 11, 2019 and April 11, 2021 (the reporting period). The site management requirements are outlined in the document titled *202 Franklin Street, Cattaraugus County, City of Olean, New York, Site Management Plan, NYSDEC Site Number: C905043*, dated December 2019 (the SMP).

This report includes the following elements:

- Site background information;
- identification of the remedial goals established for the Site;
- a description of the institutional controls (ICs) and engineering controls (ECs) for the Site;
- a review of monitoring protocols and results;
- a description of site inspections and groundwater monitoring; an evaluation of the remedy performance, effectiveness and protectiveness; and,
- conclusions and recommendations based on the work completed to date.

I. Executive Summary

A. Site Conditions, Contamination and Remedial History

- The Site consists of an approximate 5.16-acre parcel of land of which a 1.83-acre portion is developed as a paved parking lot that services the industrial facility located adjacent to the south (i.e., 211 Franklin Street). The remaining portion of the Site (i.e., approximately 3.3 acres) is vacant land. (refer to the Project Locus Map included as Figure 1).
- Silence Dogood, LLC entered into the Brownfield Cleanup Program (BCP) administered by the NYSDEC in accordance with Brownfield Cleanup Agreement (BCA) Index # C905043-05-14, which was executed on May 22, 2014, to investigate and remediate the Site. As outlined in the BCA, Silence Dogood, LLC is a Volunteer with respect to the requirements of the BCP.

- A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the Site. The July 2017 RI report identified the following conditions at the Site, prior to remediation: impacts to surface soil and subsurface soil/fill from various polycyclic aromatic hydrocarbons (PAHs) and metals; and impacts to site-related groundwater from metals, in addition to petroleum-related impacts to the groundwater on the western portion of the Site that originated from an off-site location.

- The Site was remediated in accordance with the provisions of a Decision Document (DD), issued by the NYSDEC dated August 31, 2017. The DD included Remedial Action Objectives for public health protection pertaining to Site related soil and groundwater. The DD also specified the selected remedy for the Site, as Track 4 Restricted (Commercial) Use with site-specific soil cleanup objectives. See Section II.B. of this PRR for a summary of the remedial actions completed under the DD.

- Day Environmental, Inc. (DAY) prepared the SMP on behalf of Silence Dogood, LLC, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP, were implemented at the Site beginning on December 11, 2019.

- A certificate of completion (COC) was issued for NYSDEC Site #C905043 on December 11, 2019, documenting completion of the remedial program. The COC identified ongoing requirements for the Site, including compliance with the SMP, periodic reporting through PRRs, and periodic certification of the Engineering Controls (EC) and Institutional Controls (IC) that are required at the Site.

B. Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued operation and monitoring of the EC (i.e., the site-wide cover system); and post-remediation media (i.e., groundwater) sampling and testing. Monitoring data from the work completed to date shows that the remedial program is currently meeting, and has the ability to achieve, the remedial objectives for the Site.

C. Compliance

No areas of non-compliance with the SMP were identified during the reporting period. As such, no steps are currently deemed necessary to correct areas of non-compliance.

During the annual inspection of the site-wide cover system that occurred on June 25, 2020 sparse vegetative cover was observed over portions of the soil cover, generally located to the north of the Employee Parking Lot. . The condition of the vegetative cover should be re-assessed in the upcoming reporting period, and the area should be re-seeded, if necessary.

It is noted that the groundwater sample collected from monitoring well MW-E on June 25, 2020 contained various metals at higher concentrations than those measured during the RI. The reason for the increase in concentrations of metals in the June 25, 2020 groundwater sample collected from MW-E, and if these increases represent a trend is unknown. As such, the results of subsequent annual groundwater monitoring will be evaluated to determine if the increases represent an upward trend, or anomalous results,

and may also assist in the determination of the source of these constituents (if they persist).

D. Recommendations

1. The requirements identified in the SMP for the Site were met during the reporting period, and no modifications are required at this time to bring the plan into compliance.

2. It is recommended that the frequency of future PRRs remain as identified in the SMP (i.e., submitted every year subsequent to this report, such that the next PRR covers the reporting period April 12, 2021 through April 11, 2022).

3. Since residual contamination remains at the Site, it is recommended that site management requirements be continued.

II. Site Overview

A. Site Location, Site Features and Nature and Extent of Contamination

The Site is located in City of Olean, Cattaraugus County, New York and is identified as Section 94.040 Block 1 and Lot 3 on the Cattaraugus County Tax Map. The Site is bound by the Interstate I-86 right-of-way (ROW) to the north, Franklin Street to the south, an athletic field to the east, and a railroad ROW to the west. A Property Survey Map of the Site is included in Attachment A of this document.

The properties adjoining the Site and, in the neighborhood, surrounding the Site primarily include residential, and industrial properties. The properties immediately south of the Site include Franklin Street followed by industrial properties; the properties immediately north of the Site include the Interstate I-86 ROW; the properties immediately east of the Site include a park followed by residential properties; and the properties to the west of the Site include a railroad ROW followed by commercial and industrial properties.

The Site consists of an approximate 5.16-acre parcel of land of which a 1.83-acre portion is developed as a paved parking lot that services the industrial facility located adjacent to the south (i.e., 211 Franklin Street). The Site is zoned industrial and the southeastern portion is currently utilized as the Employee Parking Lot by SolEpoxy Inc. (i.e., the tenant at 211 Franklin Street); the remaining portion of the Site (i.e., approximately 3.3 acres) is vacant land.

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the Site. The results of this study are described in the following report:

- *Remedial Investigation Alternatives Analysis Report, 202 Franklin Street, City of Olean, Cattaraugus County, New York, BCP Site Number: C905043,* dated July 14, 2017

The July 2017 RI identified the following conditions at the Site, prior to remediation:

- Impacts to surface soil from: various polycyclic aromatic hydrocarbons (PAHs) and metals including arsenic.

- Impacts to subsurface soil/fill from various PAHs and metals including: arsenic, barium, cadmium, copper, and lead.

- Impacts to site-related groundwater from metals, including antimony, arsenic, barium, and selenium; and petroleum-related impacts to the groundwater on the western portion of the Site, which originated from an off-site location.

B. Chronology

A chronology of Remedial Actions performed at the Site is presented below.

- Silence Dogood, LLC entered into the BCP administered by (NYSDEC) in accordance with Brownfield Cleanup Agreement Index # C905043-05-14, which was executed on May 22, 2014, to investigate and remediate the Site. As outlined in the BCA, Silence Dogood, LLC is a Volunteer with respect to the requirements of the BCP.

- The Site was remediated under a Decision Document (DD), issued by the NYSDEC and dated August 31, 2017. The DD included Remedial Action Objectives for public health protection pertaining to Site related soil and groundwater. The DD specified the selected remedy for the Site, as Track 4 Restricted (Commercial) Use with site-specific soil cleanup objectives. Elements of the remedy included:

  - excavation of approximately 289 tons of soil/fill containing metal waste and lesser amounts of ash, slag, cinders, construction/demolition debris, tar, etc. from an approximate 6,540 square-foot area located in the northeast portion of the Site, and transport of the material to Waste Management's Chafee Landfill (Chafee, New York) for disposal.

  - permanent closure, excavation, removal and disposal of an 8,000-gallon UST and residual contents from the subsurface adjacent to the southwest corner of the Employee Parking Lot at the Site.

  - a site cover constructed and maintained to provide a barrier above surface soil containing concentrations that exceed the Restricted Commercial Use soil cleanup objectives (SCOs). The cover consists of asphalt pavement (i.e., over the 1.83-acre portion is developed as a paved parking lot); one-foot thick mulch cover under the driplines of the remaining mature trees (i.e., located along the eastern edge of the Site); one-foot thick stone cover within a surface drainage channel (i.e., located north of the paved parking lot); and/or one-foot thick soil cover over the other exterior portions of the Site. Where the soil/mulch/stone cover was utilized, a minimum of one foot of material was used as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil/mulch/stone cover was placed over a demarcation layer. The upper four inches of placed soil in the soil cover was of sufficient quality to maintain a vegetation layer. Fill material

brought to the Site for use as cover material met the requirements set forth in 6 NYCRR Part 375-6.7(d);

- Imposition of an institutional control in the form of an environmental easement for the controlled property;

- Development and implementation of a SMP; and

- Periodic certification of the institutional and engineering controls

- The remediation of the Site was completed in accordance with a Remedial Action Work Plan (RAWP - dated August 2017) that was approved by the NYSDEC on August 28, 2017 and a RAWP addendum (dated July 17, 2019) that was approved by the NYSDEC on July 24, 2019.

- DAY prepared the SMP on behalf of Silence Dogood, LLC, dated December 2019, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP, were implemented at the Site beginning on December 11, 2019. The SMP includes an Institutional and Engineering Control Plan that identifies use restrictions and engineering controls for the Site, a Monitoring Plan to assess the performance and effectiveness of the Remedy, and details the steps and media-specific requirements necessary to ensure that the institutional and/or engineering controls remain in place and effective.

- A COC was issued for NYSDEC Site #C905043 on December 11, 2019, documenting completion of the remedial program. The COC identified ongoing requirements for the Site, including compliance with the SMP, periodic reporting through PRRs, and periodic certification of the ECs and ICs that are required at the Site.

As presented in the DD, the cleanup goals for the Site are to prevent ingestion/direct contact with contaminated surface and subsurface soil/fill materials, and to prevent exposure to onsite groundwater. Generally, remedial processes are considered complete when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

The Site remedy included:

- the placement, and/or maintenance, of a site-wide cover system (i.e., asphalt pavement; one-foot thick mulch cover; one-foot thick stone cover; and/or one-foot thick soil cover) to prevent direct contact with impacted materials (i.e., surface soil, subsurface soil/fill, etc.), and

- institutional controls to prevent exposure to onsite groundwater.

The effectiveness of this remedy is evaluated by the completion of annual inspections of the cover system and annual post-remediation groundwater sampling.

- On June 25, 2020, DAY representatives completed the annual inspection of the site-wide cover system and collected groundwater samples for the annual post-remediation groundwater monitoring. A copy of the site-wide inspection form (i.e., included as Appendix F of the SMP), completed during the June 25, 2020 inspection, and photographs, taken on July 25, 2020 illustrating the condition of the exterior site cover on that date, were included in a data report titled, Annual Groundwater Monitoring and Cover Inspection, NYSDEC BCP Site No. C905043, 202 Franklin Street Site, Olean, New York, dated September 15, 2020 (September 15, 2020 Data Report), which was transmitted to the NYSDEC on September 15, 2020. A copy of this data report is included as Attachment B.

- The results of the groundwater monitoring completed at the Site are discussed in Section V of this PRR.

IV. IC/EC Compliance Report

A. IC/EC Compliance Report

1. A description of each control, its objective, and how performance of the control is evaluated is provided below.

    - Groundwater Use Restriction: restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Cattaraugus County Department of Health. The effectiveness of this control is evaluated based upon monitoring of groundwater usage at the Site (or lack thereof).

    - Land use Restriction: allows the use and development of the controlled property for commercial and industrial uses as defined by 6 NYCRR Part 375-1.8(g), although land use is subject to local zoning laws. The effectiveness of this control is evaluated based upon monitoring of land usage at the Site.

    - Site Management Plan: The objective of the SMP is to manage remaining contamination present at the Site that is above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, a Site Monitoring and Sampling Plan, an Operation and Maintenance (O&M) Plan and a Soil Management Plan (i.e., the excavation work plan included as Appendix B of the SMP). The effectiveness of the controls outlined above is evaluated through monitoring and periodic certification. Controls on the Site include:

        - Construction and maintenance of a site-wide cover system to provide a barrier above surface soil containing concentrations that exceed the Restricted Commercial Use SCO. The cover system consists of asphalt pavement, one-foot thick mulch cover, one-foot thick stone cover, and/or one-foot thick soil cover.

        - Routine monitoring to document the integrity of the site-wide cover system and to document post remediation groundwater conditions.

- Implementation of specific requirements outlined in the SMP, including the provisions of the IC/EC Plan (i.e., Excavation Work Plan, Soil Vapor Intrusion Evaluation, and Contingency Plan), Site Monitoring Plan, and Operation and Maintenance Plan, to assure the provisions described in these documents are followed.

2. Status:

   Each control is fully in place, is being adhered to, and appears to be effective as of the date of this report.

   During the annual inspection of the site-wide cover system that occurred on June 25, 2020, sparse vegetative cover was observed over portions of the soil cover, generally located in the area to the north of the Employee Parking Lot (refer to the site sketch and photographs included in Attachment B). [Note: this area was seeded in late 2019, following construction of the soil cover. Dry weather conditions were noted at the time of the 2020 annual inspection, and dry weather conditions in the weeks preceding the 2020 annual inspection were reported at the Site by facility personnel. Therefore, it is suspected that the vegetative cover had not yet established over the soil cover due to the short duration of the growing season and was further retarded by dry conditions.]. Areas of erosion (i.e., due to the lack of vegetative cover) were not observed.

3. Corrective Measures:

   The condition of the vegetative cover should be re-assessed in the upcoming reporting period, and the area should be re-seeded, if necessary.

4. Conclusions and Recommendations for Changes:

   The controls are being effectively implemented as of the date of this report, and no changes are deemed necessary at this time.

B. IC/EC Certification

Certification Statement and forms are included as Attachment C to this report.

V. Monitoring Plan Compliance Report

A. Components

- Site-Wide Inspections: annual inspections are required to observe and document the condition of the cover system installed at the Site. Site-wide inspections are also required after all severe weather events that have the potential to affect ECs.

- Post Remediation Media Monitoring and Sampling: Groundwater are collected/tested on a routine basis to assess the performance of the remedy.

B. Summary of the Monitoring Completed

- Site-Wide Inspections: On June 25, 2020, a DAY representative completed the annual inspection of the site-wide cover system. A copy of the site-wide inspection form completed for June 25, 2020 is included in Attachment B. Photographs illustrating the condition of the exterior site cover on that date, are also included in Attachment B.

- Post Remediation Media Monitoring and Sampling:

  The results of the post-remediation groundwater sampling event are presented in the September 15, 2020 Data Report, included as Attachment B. [Note: Data validation for the groundwater samples collected on June 25, 2020 had not been completed at the time of the preparation of the September 15, 2020 Data Report. Table 2 in Attachment B has been updated to include the validated test results for groundwater samples collected June 25, 2020; generally, the validation results qualified some of the estimated values as 'not detected' and select other values as 'estimated high'. A copy of the Data Usability Summary Report (DUSR), prepared by Vali-Data of WNY, LLC and dated November 6, 2020 is presented as Attachment D.]

  The analytical laboratory test results for the samples collected during the reporting period were submitted to the NYSDEC EIMS Team via NYENVDATA in an EQUIS EDD format, and these data were deemed complete and accepted.

C. Comparison with Remedial Objectives

- Site-Wide Inspections: The results of the site-wide inspections indicate that remedial objectives were achieved during the reporting period. Specifically, the site-wide inspections revealed that the cover system is intact and functioning as designed to eliminate direct contact.

- Post Remediation Media Monitoring and Sampling: Concentrations of manganese and/or sodium exceeding groundwater quality standards (GWQS) were measured in each of the groundwater samples collected on June 25, 2020 except for the sample from MW-C. As stated in the RI report for the Site, the concentrations measured are typical of background conditions and, as such, apparently not attributable to contaminants at the Site. The concentrations of manganese and/or sodium measured in the June 25, 2020 samples are generally comparable (i.e., same order of magnitude) to the concentrations measured during the RI study (i.e., the June 2014 and November 2014 sample results summarized on Table 2). With the exception of the increase in the concentration of barium in the groundwater sample from MW-B (i.e., from approximately 200-300 ppb in 2014 to 1,000 ppb in 2020), the concentrations of the other metals measured in the June 25, 2020 groundwater samples collected from MW-B and MW-G do not appear to be significantly higher than the concentrations measured from those locations in 2014.

  The groundwater sample collected from MW-E on June 25, 2020 did contain various metals at higher concentrations than those measured in 2014. The reason for the increase in concentrations of metals in the June 25, 2020 groundwater samples collected from MW-E and MW-B (i.e., barium), and if these increases represent a trend is unknown. The results of subsequent annual groundwater monitoring events will determine if the increase in concentrations observed during the June 25, 2020

groundwater sample represents an upward trend, or anomalous results. The subsequent test results may also assist in the determination of the source of these constituents.

D. Monitoring Deficiencies

There are no monitoring deficiencies identified at this time.

E. Conclusions and Recommendations for Changes

- Site-Wide Inspection: The site-wide inspection monitoring confirmed that the remedial systems for the Site are functioning properly, and effective in achieving their intended objectives. No changes to the site-wide inspection, monitoring process, or remedial actions are recommended at this time.

- Post Remediation Media Monitoring and Sampling:

  It is recommended that post-remediation groundwater sampling and testing continue to be completed in accordance with the procedures outlined in the SMP.

VI. Operation & Maintenance (O&M) Plan Compliance Report

The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems, air sparge/soil vapor extraction systems, etc. to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in the SMP and compliance with an O&M plan is not applicable for this PRR.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

The requirements identified in the SMP for the Site were met during the reporting period, and no modifications are required to bring the plan into compliance.

B. Performance and Effectiveness of the Remedy

An evaluation of the components of the SMP during the reporting period indicated that:

- the IC/EC controls were protective of human health and the environment;
- the monitoring plan sufficiently monitored the performance of the remedies implemented;
- the remedial program is achieving the remedial goals identified for the Site.

C. Future PRR Submittals

1. It is recommended that the frequency of future PRRs remain as identified in the SMP (i.e., submitted every year subsequent to this report, such that the next PRR covers the reporting period April 12, 2021 through April 11, 2022).

2. The requirements for site closure have not been achieved. As such, it is recommended that site management continue.

PERIODIC REVIEW REPORT
REPORTING PERIOD DECEMBER 11, 2019 THROUGH APRIL 11, 2021

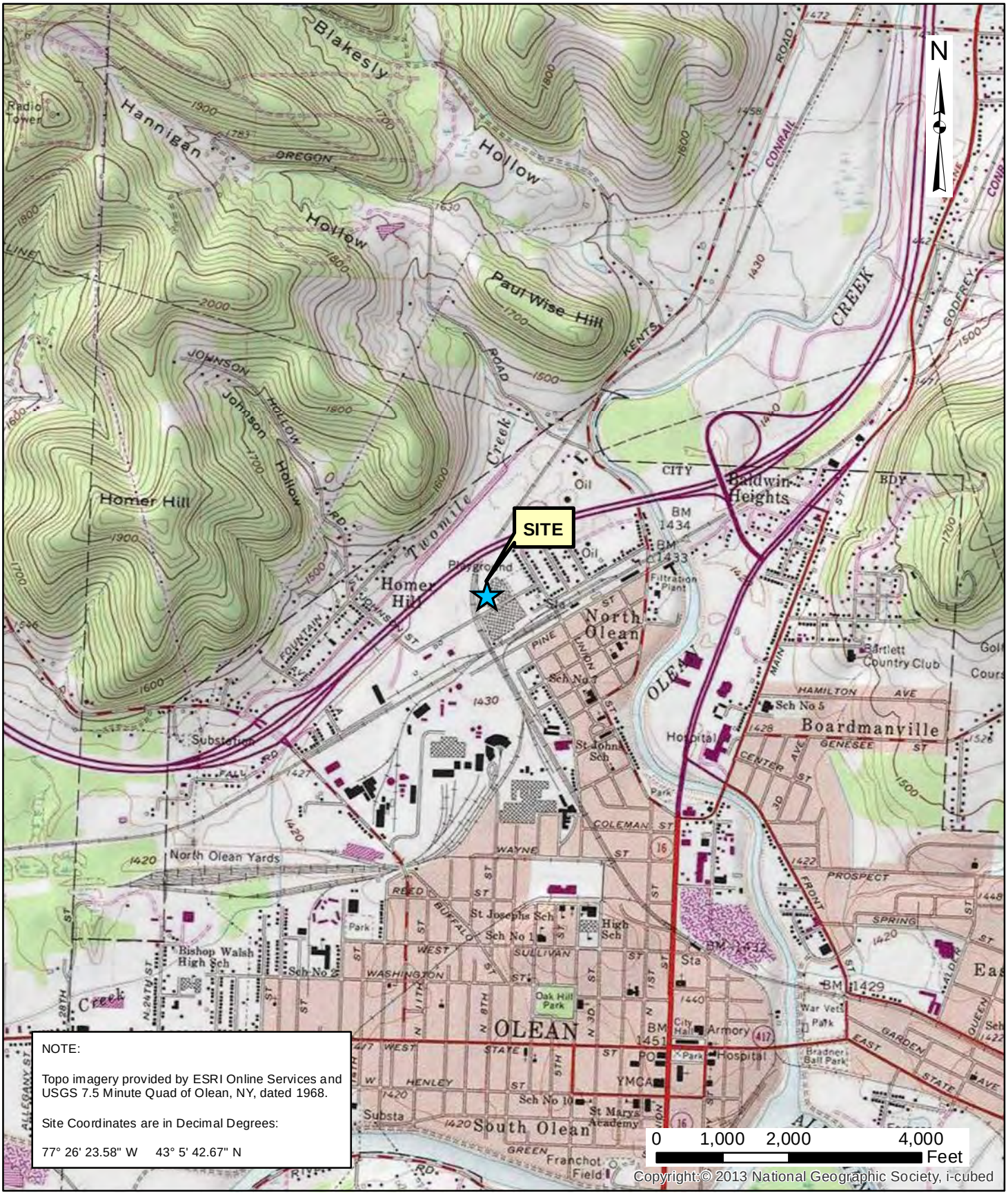
202 FRANKLIN STREET
OLEAN, NEW YORK
NYSDEC SITE NO. C905043

FIGURES

ATTACHMENTS

FIGURES

Last Date Saved: 15 Jul 2019 Document Path: E:\GIS Mapping\4884S-13Solepo\202Franklin\SMP\4884S - 01Locus.SMP.mxd



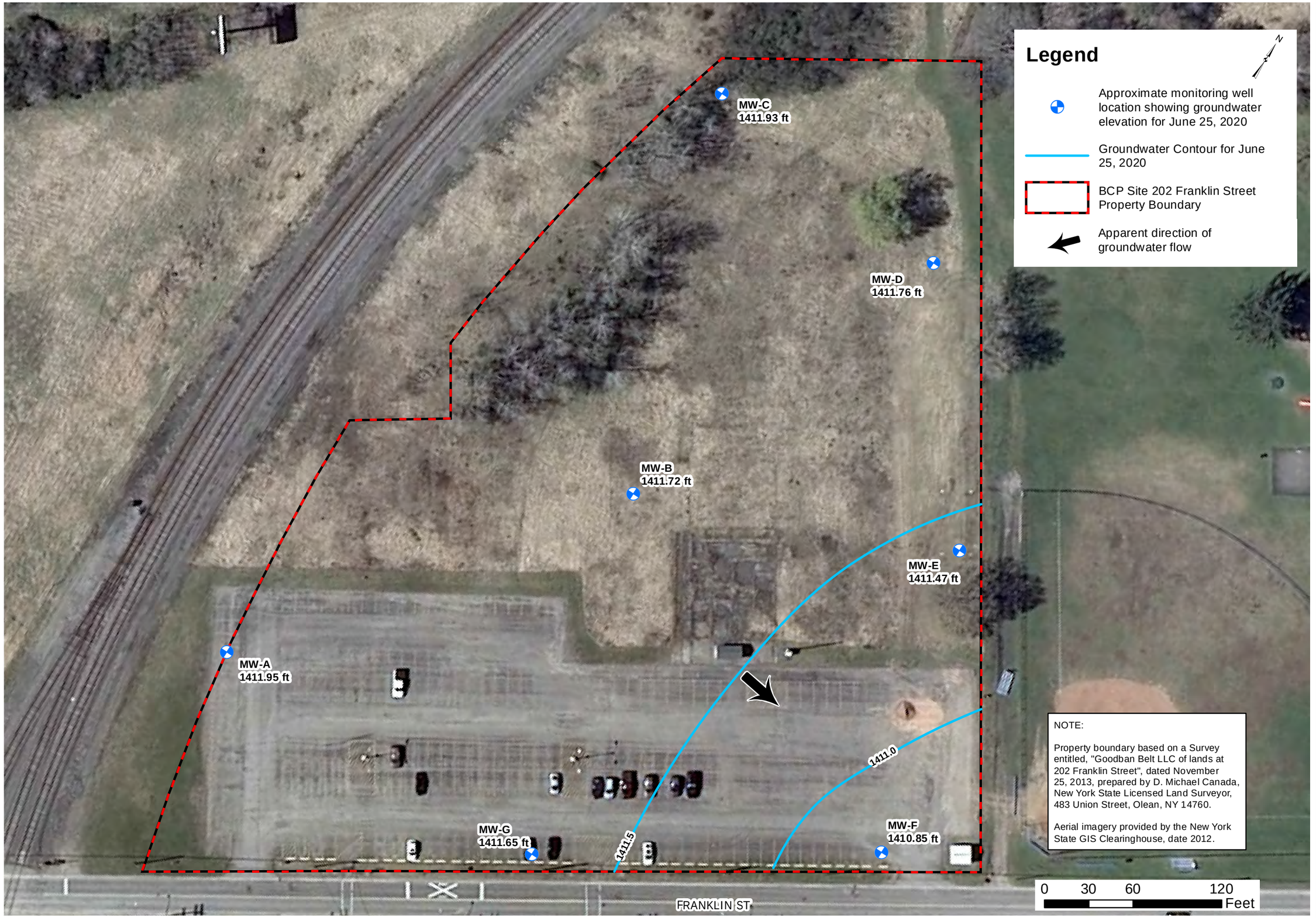
NOTE:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Olean, NY, dated 1968.

Site Coordinates are in Decimal Degrees:

77° 26' 23.58" W 43° 5' 42.67" N

Date: 07/15/2019 Drawn By: CAH Scale: AS NOTED	day **DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14606** **New York, New York 10170**	Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK BCP SITE NO. C905043 Drawing Title: Site Location Map	Project No.: 4884S-13 FIGURE 1



Legend

- Approximate monitoring well location showing groundwater elevation for June 25, 2020
- Groundwater Contour for June 25, 2020
- BCP Site 202 Franklin Street Property Boundary
- Apparent direction of groundwater flow

NOTE:

Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.

DESIGNED BY	CAH
DATE	09-2020
DRAWN BY	CAH
DATE DRAWN	09-2020
SCALE	AS NOTED
DATE ISSUED	09-02-2020

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

Drawing Title
Groundwater Contour Map: June 25, 2020

Project No.
4884S-13

FIGURE 2

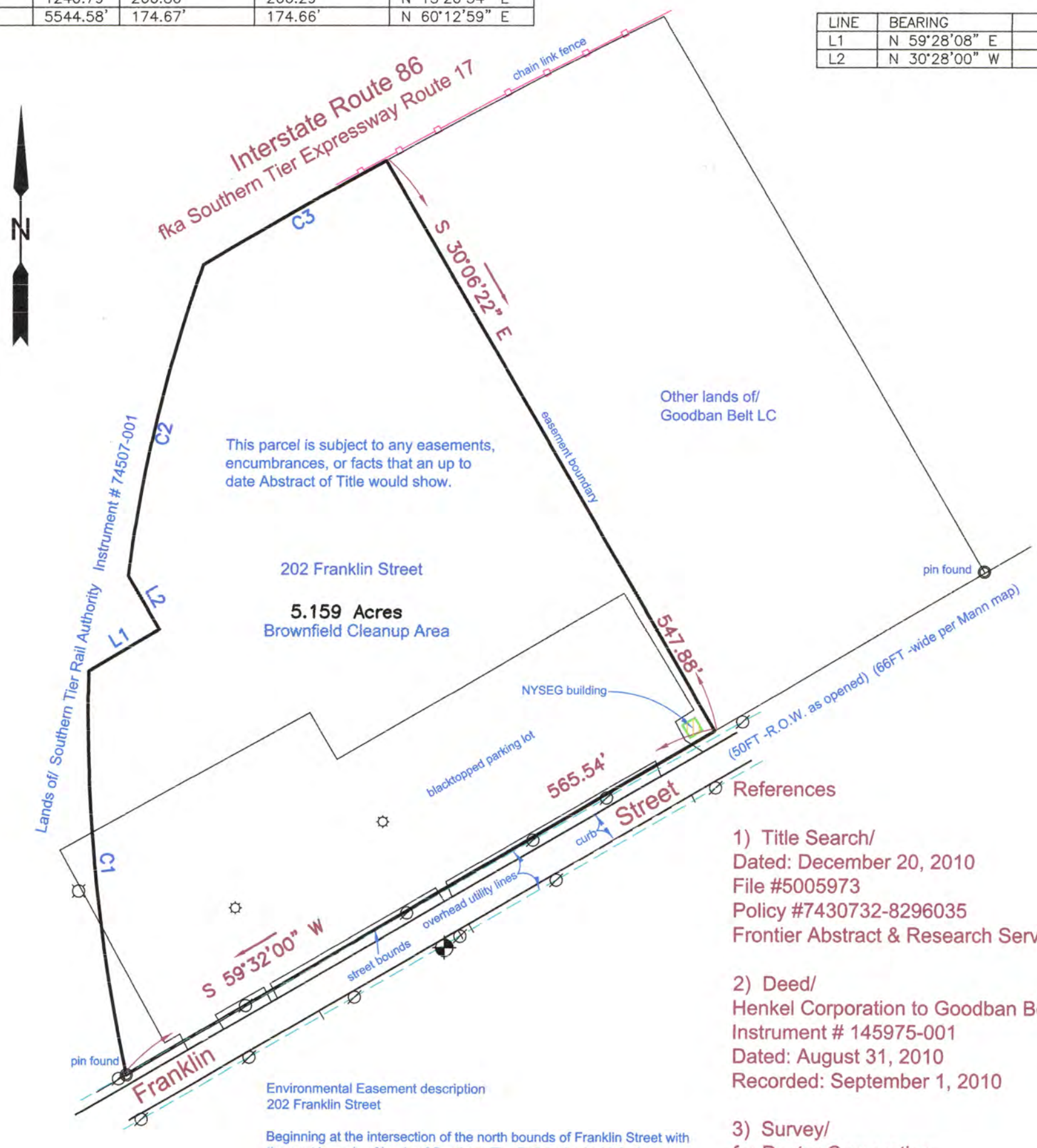
Last Date Saved: 02 Sep 2020 Document Path: E:\GIS Mapping\Older Projects\4884S-13Sol\gis\202Franklin\Long_Term_Monitoring\4884S - 01- 06-25-2020 GW Contour 202.mxd

ATTACHMENT A

PROPERTY SURVEY MAP

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	1432.69'	338.04'	337.26'	N 05°34'22" W
C2	1240.79'	266.80'	266.29'	N 13°20'34" E
C3	5544.58'	174.67'	174.66'	N 60°12'59" E

LINE	BEARING	DISTANCE
L1	N 59°28'08" E	68.03'
L2	N 30°28'00" W	51.78'



Environmental Easement description
202 Franklin Street

Beginning at the intersection of the north bounds of Franklin Street with the east bounds of lands of Southern Tier Rail Authority LLC, thence along the east bounds of lands of Southern Tier Rail Authority:
1) along a curve to the right, with a radius of 1432.69',
a arc length of 338.04' which is subtended by a
chord of N 5-34-22 W, a distance of 337.26' to a point
2) N 59-28-08 E, a distance of 68.03' to a point
3) N 30-28-00 W, a distance of 51.78' to a point
4) along a curve to the right, with a radius of 1240.79',
a arc length of 266.80' which is subtended by a
chord of N 13-20-34 E, a distance of 266.29' to a
point, thence along the south bounds of Interstate Route 86:
along a curve to the right, with a radius of 5544.58',
a arc length of 174.67' which is subtended by a
chord of N 60-12-59 E, a distance of 174.66' to a point
thence S 30-06-22 E, through the lands of Goodban Belt LLC, a distance of 547.88' to a point,
thence S 59-32-00 W along the north bounds of Franklin Street, a distance of 565.54' to the point of beginning

Contains 5.159 acres+/-

300 200 100 0
1IN=100FT
91.44 60.96 30.48 0
1IN=30.48METERS

References

1) Title Search/
Dated: December 20, 2010
File #5005973
Policy #7430732-8296035
Frontier Abstract & Research Services, Inc.

2) Deed/
Henkel Corporation to Goodban Belt LLC
Instrument # 145975-001
Dated: August 31, 2010
Recorded: September 1, 2010

3) Survey/
for Dexter Corporation
Dated: August 2, 1979
by M.C. Ackerman, LS 23028

Typical Symbols
-hydrant
-utility pole
-light pole
-monitor well
d. -deed distance
m. measured distance

This survey is certified to the following/

1) New York State Department of Environmental Conservation

Map and Survey for:
Goodban Belt LLC
of lands at
202 Franklin Street

Copies Invalid Unless Embossed

Part of Lots 4 & 6, Section 5 , Twp.# 2, Range # 4 of the Holland Land Co.'s Survey
Blocks 64 and 74 and part of Blocks 63, 65, 73, 75, 80, 81, and 82
Part of Franklin, Washington, Vine, and Spruce streets, and other lands
according to the "Mann Map of Olean Depot"
City of Olean
Cattaraugus County, New York
Date: November 25, 2013
Scale: 1IN = 100FT

Prepared By:
D. Michael Canada
New York State
Licensed Land Surveyor
483 North Union Street
Olean, NY 14760
N.Y.S. Lic. No.49215
716-379-7918

Job Number: 7526

SITE LAYOUT MAP
FIGURE 2

ATTACHMENT B

ANNUAL GROUNDWATER MONITORING AND COVER INSPECTION, NYSDEC BCP SITE NO. C905043,
202 FRANKLIN STREET SITE, OLEAN, NEW YORK,
PREPARED BY DAY ENVIRONMENTAL, INC. AND DATED SEPTEMBER 15, 2020

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

September 15, 2020

Silence Dogood, LLC
c/o Jeffrey Belt
211 Franklin Street
Olean, New York 14760

RE: Annual Groundwater Monitoring and Cover Inspection
NYSDEC BCP Site No. C905043
202 Franklin Street
Olean, New York

Dear Mr. Belt:

Day Environmental, Inc. (DAY) completed an annual groundwater monitoring event and cover inspection at the above-referenced property (Site) on June 25, 2020. The annual groundwater monitoring event and cover inspection are required components of the Site Management Plan (SMP) dated December 2019. The following sections describe the work completed and present data generated as part of the June 25, 2020 annual groundwater monitoring and cover inspection event. A project locus map, depicting the location of the Site, is provided as Figure 1.

Background

The Site was remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). The NYSDEC issued a certificate of completion for BCP Site C905043 on December 11, 2019.

After completion of the remedial work, some contamination was left at the Site beneath a minimum one-foot thick soil cover. As such, the December 2019 SMP was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with New York State Environmental Law (ECL) Article 71, Title 36. Requirements outlined in Section 4.0 *Monitoring and Sampling*, of the December 2019 SMP include: 1) the completion of annual groundwater sampling and analysis in the locations, and utilizing the methods, specified in the SMP and 2) completion of the annual cover inspection.

Field Activities

On June 25, 2020, DAY representatives were at the Site to conduct a site inspection and monitoring event in accordance with the December 2019 SMP. The following scope of work was completed:

- Measurement of static water level in groundwater monitoring wells MW-A through MW-G using a static water level meter;

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

- Collection of groundwater samples from monitoring wells MW-A through MW-G using a low flow purge and sample technique t;
- A cover inspection that included photographing representative portions of the site cover and summarizing conditions on the Site-Wide Cover Inspection Form, to document current conditions; and
- Submittal of groundwater samples to Alpha Analytical Laboratory (Alpha) in Westborough, MA for testing. Note: Alpha is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory.

The approximate locations of the groundwater monitoring wells that were assessed and sampled on June 25, 2020 are depicted on Figure 2. A summary of the groundwater elevations for June 25, 2020, calculated from the static groundwater levels measured on that date, are presented on Table 1. [Note: Table 1 also summarizes the construction details and the sampling program for the groundwater monitoring wells that comprise the long-term monitoring network required by the SMP.] The groundwater elevations calculated for June 25, 2020 were used to prepare the potentiometric groundwater contours for the monitoring well locations depicted on Figure 2. The groundwater sampling activities are documented on the groundwater sampling logs included in Attachment A.

A copy of the June 25, 2020 Site-Wide Cover Inspection Form and copies of select are included in Attachment B.

Analytical Laboratory Test Results

The groundwater samples collected on June 25, 2020 were tested by Alpha for target analyte list (TAL) metals using USEPA Methods 6020B and 7040A.

A copy of the analytical laboratory report prepared by Alpha and executed chain-of-custody documentation are included in Attachment C. The constituents detected in the samples submitted for analytical laboratory testing as part of this groundwater monitoring event are summarized on Table 2 *Summary of TAL Metals: Groundwater Samples.* The TAL metals detected in the groundwater samples collected from the site during the previous groundwater monitoring events are also summarized on Table 2.

Table 2 includes applicable Class GA (i.e., potable drinking water from a groundwater source) standards or guidance values for the detected parameters as presented in NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled, Ambient Water Quality Standards and Guidance Effluent Limitations dated June 1998 as amended April 2000 (TOGS 1.1.1).

If there are questions regarding this submittal, please contact this office.

Very truly,
Day Environmental, Inc.

Charles Hampton
Project Geologist

Raymond L. Kampff
Principal

Enclosure

Figures:

Figure 1 – Project Locus Map
Figure 2 – Site Plan and Potentiometric Groundwater Contour Map measured on June 25, 2020

Tables:

Table 1 – Summary of Monitoring Well Location Details, Construction, Groundwater Elevations and Analytical Parameters for Long Term Monitoring
Table 2 – Summary of TAL Metals: Groundwater Samples

Attachments:

Attachment A – Groundwater Sampling Logs for June 25, 2020
Attachment B – Site-Wide Cover Inspection Form and Photographs
Attachment C – Analytical Laboratory Report and Chain-of Custody Documentation

cc:
Megan Kuczka (NYSDEC)

FIGURES

(Refer to Figure 1 and Figure 2 in the PRR)

TABLES

TABLE 1
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF MONITORING WELL LOCATION DETAILS, CONSTRUCTION, GROUNDWATER ELEVATIONS AND ANALYTICAL PARAMETERS FOR LONGTERM MONITORING

Monitoring Well ID Sample Locations	Well Location	UTM NAD83 Coordinates (feet) (northing/ easting)	Well Diameter (inches)	Elevation (feet above mean sea level)							Analytical Parameters to be Analyzed Year 1
				Casing	Surface	Screen Top	Screen Bottom	Groundwater			
								7/10/2014	11/5/2014	6/25/2020	
MW-A	On-site perimeter (up-gradient)	763496.8 1186801.0	1	1427.70	1428.04	1411.80	1401.80	1412.66	1410.17	1411.95	TAL Metals
MW-B	On-site	763736.2 1186986.0	2	1429.95	1427.72*	1412.45	1402.45	1412.44	1410.02	1411.72	TAL Metals
MW-C	On-site perimeter (up-gradient)	763995.0 1186888.3	2	1429.34	1426.69*	1417.34	1407.34	1412.71	1410.27	1411.93	TAL Metals
MW-D	On-site	763978.7 1187071.6	2	1428.08	1426.12*	1412.08	1402.08	1412.52	1410.09	1411.76	TAL Metals
MW-E	On-site perimeter (down-	763824.9 1187192.4	2	1427.40	1427.81*	1409.40	1399.40	1412.59	1409.90	1411.47	TAL Metals
MW-F	On-site perimeter (down-	763624.6 1187259.2	2	1428.53	1428.92	1411.03	1401.03	1411.78	1409.31	1410.85	TAL Metals
MW-G	On-site perimeter (down-	763493.8 1187059.7	2	1429.26	1429.66	1411.76	1401.76	1412.39	1410.05	1411.65	TAL Metals

Notes:

* - Surface elevation prior to the placement of the minimum 1 foot tick soil cover over the portion of the Site on which this monitoring well is located.

TABLE 2
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF TAL METALS IN GROUNDWATER SAMPLES

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value [1]	MW-A			MW-B			MW-C			MW-D					MW-E			MW-F			MW-G		
			6/27/2014	11/5/2014	6/25/2020	6/27/2014	11/5/2014	6/25/2020	6/27/2014	11/5/2014	6/25/2020	6/27/2014	11/5/2014	7/11/2017 FILTERED*	7/11/2017	6/25/2020	6/27/2014	11/5/2014	6/25/2020	6/27/2014	11/5/2014	6/25/2020	6/27/2014	11/5/2014	6/25/2020
Aluminum	7429-90-5	NA	U	U	U (10)	U	U	U (10)	82.6 b	U	U (10)	3040	U	NT	NT	U (10)	U	U	36,500 JH	U	U	U (10) J	175 b	U	U (10)
Antimony	7440-36-0	3	U	U	U (0.42)	U	U	U (0.42)	9.5 b	U	U (0.42)	U	U	NT	NT	U (0.42)	U	U	U (0.42)	U	U	0.68 J	U	U	0.45 J
Arsenic	7440-38-2	25	U	U	0.7	4.6 b	U	0.65	U	U	5.61	31.5	63.4	45.3	52.4	52.73	U	U	39.32	5 b	U	0.58	9 b	U	2.07
Barium	7440-39-3	1,000	216	204	120.4 JH	191 b	290	1,101 JH	80.6 b	101 b	7.35 JH	1,530	2,490	2,370	2,580	2,444 JH	103 b	222	2,528 JH	282	330	246.7 JH	955	786	1,043 JH
Beryllium	7440-41-7	3	U	U	U (0.1)	U	U	U (0.1)	U	U	U (0.1)	U	U	NT	NT	U (0.1)	U	U	2.19	U	U	U (0.1)	U	U	U (0.1)
Cadmium	7440-43-9	5	U	U	U (0.2)	U	U	U (0.05)	U	U	U (0.05)	U	U	NT	NT	U (0.05)	U	U	0.57 JH	U	U	U (0.2)	U	U	U (0.05)
Calcium	7440-70-2	NA	81,800	103,000	73,600 JH	139,000	149,000	124,000 JH	204,000	222,000	82,400 JH	139,000	141,000	NT	NT	131,000 JH	123,000	154,000	141,000 JH	149,000	119,000	109,000 JH	178,000	145,000	175,000 JH
Chromium	7440-47-3	50	U	U	U (1)	U	U	U (0.17)	U	U	U (0.17)	3.7 b	U	NT	NT	U (0.17)	0.77 b	U	40.66 JH	U	U	U (0.17)	U	U	U (0.17)
Cobalt	7440-48-4	NA	U	U	0.5	U	1.6 b	U (0.16)	5.1 b	3.9 b	U (0.16)	4.1 b	U	NT	NT	0.2 J	U	U	57.24	U	U	0.49 J	U	U	U (0.16)
Copper	7440-50-8	200	U	U	1.14	U	U	1.13	4.5 b	4.2 b	1.3	16.8 b	U	NT	NT	0.96 J	U	U	99.66	U	U	1.07	U	U	0.93 J
Iron	7439-89-6	300	13,200	11,800	U	64.3 b	2,460	U	1,630	3,450	U	11,700	12,600	NT	NT	U	179 b	96.3 b	101,000 JH	U	44.8 b	U	6,130	4,850	U
Lead	7439-92-1	25	U	U	U (0.34)	U	U	U (0.34)	5.6	U	U (0.34)	8.9 b	U	NT	NT	U (0.34)	U	U	154.4 JH	U	U	U (0.34)	U	U	U (0.34)
Magnesium	7439-95-4	35,000	4,460	5,260	3,120 JH	21,700	23,400	19,900 JH	18,700	23,100	8,830 JH	26,000	26,000	NT	NT	24,400 JH	15,900	24,300	41,000 JH	21,900	17,600	16,000 JH	19,600	15,800	13,900 JH
Manganese	7439-96-5	300	673	909	1,092 JH	1,580	2,330	1,374 JH	2,320	2,500	44.45 JH	3,650	2,740	NT	NT	1,955 JH	23.6 b	444	7,993 JH	183	544	1,455 JH	2,140	1,850	1,182 JH
Mercury	7439-97-6	0.7	U	U	U (0.09)	U	U	U (0.09)	U	U	U (0.09)	U	U	NT	NT	U (0.09)	U	U	0.3	U	U	U (0.09)	U	U	U (0.09)
Nickel	7440-02-0	100	U	U	U (2)	5.2 b	3.4 b	U (0.55)	10.2	6.4 b	U (2)	9.5 b	1.1 b	NT	NT	U (2)	0.85	1.9 b	95.13 JH	U	0.87 b	U (2)	U	U	U (0.55)
Potassium	9/7/7440	NA	5,330	5,020 E,J	4,140 JH	3,880	4,200	3,850 JH	6,320	6,330 E	4,730 JH	4,490	4,260 E	NT	NT	3,850 JH	3,230	4,210 E	6,310 JH	4,100	4,270 E	3,590 JH	3,290	3,560 E	5,510 JH
Selenium	7782-49-2	10	14.9 b	U	U (1.73)	U	U	U (1.73)	35.2	U	28.8	12.3 b	U	NT	NT	U (1.73)	U	U	20.6	U	U	U (1.73)	U	U	U (1.73)
Silver	7440-22-4	50	U	U	U (0.16)	U	U	U (0.16)	U	U	U (0.16)	U	U	NT	NT	U (0.16)	U	U	U (0.16)	U	U	U (0.16)	U	U	U (0.16)
Sodium	7440-23-5	20,000	59,800	34,500	20,600 JH	74,900	100,000	90,200 JH	65,200	105,000	14,100 JH	142,000	153,000	NT	NT	179,000 JH	74,800	128,000	165,000 JH	102,000	75,900	79,200 JH	70,800	55,000	50,900 JH
Thallium	7440-28-0	0.5	U	U	U (0.14)	U	U	U (0.14)	U	U	U (1)	U	U	NT	NT	U (0.14)	U	7.6 b	U (1)	U	U	U (1)	U	U	U (1)
Vanadium	7440-62-2	NA	U	U	U (1.57)	U	1.2 b	U (1.57)	U	U	U (1.57)	4.8 b	U	NT	NT	U (1.57)	U	U	31.8	U	U	U (1.57)	U	U	U (1.57)
Zinc	7440-66-6	2,000	U	U	U (10)	U	U	U (3.41)	22.5 b	U	U (10)	54.1	U	NT	NT	U (10)	5.9 b	U	432.6 JH	U	U	U (10)	U	U	U (10)

Notes

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

Groundwater Standards or Guidance Values as referenced in New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

U = The analyte was analyzed for, but was not detected above the associated reported quantitation limit (in parenthesis). Refer to the analytical laboratory reports for the associated reported quantitation limits of samples collected prior to June 25, 2020.

J = Estimated Concentration.

J- = The analyte was positively identified; however, the associated numerical value is an estimated quantity that may be biased low.

JH = The analyte was positively identified; however, the associated numerical value is an estimated quantity that may be biased high.

b = indicates a concentration below the reporting limit and equal to or above the detection limit

E = an estimated concentration due to the presence of interferences

NA = Not Available

NT = Not Tested

* - A 0.45 micron filter was installed on the discharge end of the pump tubing to collect a 'soluble' sample.

59,800 = Concentration exceeds the respective Groundwater Standard or Guidance Value

Results of Data Usability Report have been incorporated

ATTACHMENT A

GROUNDWATER SAMPLING LOGS

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- A

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Partly Cloudy ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 1

SCREENED INTERVAL [FT BTOC]: 15.56 - 25.56 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 15.75 / 6-25-20

WELL DEPTH [FT BTOC]: 25.56 **DEPTH OF PUMP INTAKE [FT BTOC]:** 20.9
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** Slight petroleum-type odor noted at the well head

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 100 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 15.75

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
17:08	--	15.75	--	--	--	--	--	--	0
17:14	100	15.75	3.71	-84	27.8	0.228	8.28	18.45	1,000
17:19	100	15.75	2.44	-97	24.9	0.282	7.21	18.07	1,500
17:24	100	15.75	2.04	-88	23.7	0.293	7.14	17.69	2,000
17:29	100	15.75	1.77	-89	23.4	0.302	7.13	17.53	2,500
17:34	100	15.75	1.49	-90	24.1	0.311	7.13	17.44	3,000
17:39	100	15.75	1.50	-90	20.7	0.322	7.10	17.38	3,500
--	--	--	--	--	--	--	--	--	--
	SAMPLE OBSERVATIONS: Clear								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A/20200625	6-25-20 / 17:40	Bladder Pump	TAL Metals

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- B

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Rain ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 19.73 - 29.73 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 18.23 / 6-25-20

WELL DEPTH [FT BTOC]: 29.73 **DEPTH OF PUMP INTAKE [FT BTOC]:** 24.2
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** Iron Bacteria noted in purge water

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 80 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 18.23

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
14:40	--	18.23	--	--	--	--	--	--	0
14:49	80	18.23	2.15	-85	0.0	1.10	7.19	14.00	720
14:54	80	18.23	1.34	-90	6.8	1.12	7.19	13.80	1,120
14:59	80	18.23	1.18	-92	0.0	1.13	7.19	13.27	1,520
15:04	80	18.23	1.13	-94	0.0	1.14	7.19	13.29	1,920
15:09	80	18.23	1.10	-95	0.0	1.12	7.19	13.29	2,320
--	--	--	--	--	--	--	--	--	--
	SAMPLE OBSERVATIONS: Clear								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-B/20200625	6-25-20 / 15:10	Bladder Pump	TAL Metals

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- C

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Partly Cloudy ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 14.65 - 24.65 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 17.41 / 6-25-20

WELL DEPTH [FT BTOC]: 24.65 **DEPTH OF PUMP INTAKE [FT BTOC]:** 21.2
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** None

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron OWI

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 110 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 17.43

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
11:20	--	17.43	--	--	--	--	--	--	0
11:57	110	17.43	2.01	161	0.0	0.541	6.38	16.46	4,070
12:03	110	17.43	1.55	160	0.0	0.542	6.36	15.78	4,730
12:06	110	17.43	1.38	158	0.0	0.541	6.36	15.40	5,060
12:11	110	17.43	1.26	157	0.0	0.540	6.36	15.66	5,610
12:16	110	17.43	1.20	155	0.0	0.540	6.35	15.70	6,160
--	--	--	--	--	--	--	--	--	--
	SAMPLE OBSERVATIONS: Clear								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-C/20200625	6-25-20 / 12:17	Bladder Pump	TAL Metals, also MS/MSD

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- D

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Overcast ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 17.96 - 27.96 **INITIAL WATER LEVEL (SWL) [FT BTOC]:** SWL / Date Measured /

WELL DEPTH [FT BTOC]: 27.96 **DEPTH OF PUMP INTAKE [FT BTOC]:** 22.4
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: NM **DNAPL:** NM **OTHER OBSERVATIONS:** None

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron Little Dipper

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 16.33 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 80

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
12:40	--	16.33	--	--	--	--	--	--	0
12:49	70	16.33	2.03	-145	0.0	1.89	7.18	13.87	630
12:58	80	16.33	1.27	-157	0.0	1.88	7.19	13.07	1,350
13:03	80	16.33	1.19	-159	0.0	1.87	7.19	12.78	1,750
13:08	80	16.33	1.13	-160	0.0	1.86	7.19	12.51	2,150
13:13	80	16.33	1.10	-159	0.0	1.85	7.19	12.27	2,550
13:18	80	16.33	1.16	-159	0.0	1.84	7.19	12.30	2,950
--	--	--	--	--	--	--	--	--	--

SAMPLE OBSERVATIONS: Clear

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-D/20200625	6-25-20 / 13:49	Bladder Pump	TAL Metals

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- E

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Heavy Rain ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 17.59 - 27.59 **INITIAL WATER LEVEL (SWL) [FT BTOC]:** SWL / Date Measured / /

WELL DEPTH [FT BTOC]: 27.59 **DEPTH OF PUMP INTAKE [FT BTOC]:** 21.9

(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** Iron bacteria noted in purge water

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron OWI

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 80 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 15.93

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
13:44	--	15.93	--	--	--	--	--	--	0
13:51	80	15.93	2.66	-36	228	1.83	7.20	13.42	560
13:57	80	15.93	1.36	-35	264	1.83	7.18	13.00	1,040
14:01	80	15.93	1.24	-36	38.2	1.83	7.17	13.09	1,360
14:07	80	15.93	1.23	-33	18.7	1.82	7.15	13.39	1,840
14:11	80	15.93	1.09	-28	367	1.81	7.15	13.19	2,160
14:17	80	15.93	1.19	-11	>800	1.74	7.14	13.38	2,640
--	--	--	--	--	--	--	--	--	--

SAMPLE OBSERVATIONS: orange/brown turbid water, erratic turbidity, due to iron bacteria

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-E/20200625	6-25-20 / 14:18	Bladder Pump	TAL Metals

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- F

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Partly Cloudy~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 17.11 - 27.11 **INITIAL WATER LEVEL (SWL) [FT BTOC]:** SWL / Date Measured 17.68 / 6-25-20

WELL DEPTH [FT BTOC]: 27.11 **DEPTH OF PUMP INTAKE [FT BTOC]:** 22.5
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** None

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron OWI

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 80 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 17.68

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
15:31	--	17.68	--	--	--	--	--	--	0
15:41	80	17.68	2.04	15	0.0	0.989	7.25	14.50	1,000
15:46	80	17.68	1.48	21	0.0	0.988	7.24	14.23	1,500
15:51	80	17.68	1.26	26	0.0	0.988	7.23	14.19	2,000
15:56	80	17.68	1.13	29	0.0	0.992	7.23	14.05	2,500
16:01	80	17.68	1.08	31	0.0	0.995	7.23	13.91	3,000
--	--	--	--	--	--	--	--	--	--

SAMPLE OBSERVATIONS: Clear

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-F/20200625	6-25-20 / 16:02	Bladder Pump	TAL Metals

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW- G

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 202 Franklin Street, Olean, New York **JOB #** 4884S-13

PROJECT NAME: NYSDEC BCP Site C905043 **DATE:** June 25, 2020

SAMPLE COLLECTOR(S): CAH/ HM2 **WEATHER:** Partly Cloudy ~ 75° F

PID READING IN WELL HEADSPACE (PPM): NM **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BTOC]: 17.10 - 27.10 **INITIAL WATER LEVEL (SWL) [FT BTOC]:** SWL / Date Measured 17.61 / 6-25-20

WELL DEPTH [FT BTOC]: 27.10 **DEPTH OF PUMP INTAKE [FT BTOC]:** 22.6
(Do NOT Measure Well depth Prior To Purging And Sampling)

LNAPL: ND **DNAPL:** NM **OTHER OBSERVATIONS:** None

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: Horiba U-22 **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: QED - ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 100 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 17.61

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
16:16	--	17.61	--	--	--	--	--	--	0
16:26	100	17.61	2.04	-98	0.0	1.10	7.16	14.01	1,000
16:31	100	17.61	1.70	-101	0.0	1.10	7.15	13.96	1,500
16:36	100	17.61	1.47	-103	0.0	1.10	7.15	14.07	2,000
16:41	100	17.61	1.28	-104	0.0	1.10	7.15	14.20	2,500
16:46	100	17.61	1.20	-105	0.0	1.10	7.15	14.28	3,000
--	--	--	--	--	--	--	--	--	--

SAMPLE OBSERVATIONS: Clear

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-G/20200625	6-25-20 / 16:47	Bladder Pump	TAL Metals

ATTACHMENT B

SITE-WIDE COVER INSPECITON FORM
AND
PHOTOGRAPHS

Site-Wide Inspection Form

202 Franklin Street

City of Olean, New York

NYSDEC Site Number: C905043

Date of Inspection Site Visit: June 25, 2020

Personnel Performing Inspection Site Visit: C. Hampton / M. Wendel

Affiliation of Personnel: Day Environmental, Inc / SolEpoxy, Inc.

1. **Check integrity of impermeable portions (e.g., concrete and asphalt) of cover system, include whether any sloughing, cracks, settlement, damage, etc.**

Discuss observations and any corrective actions:

Asphalt cover appears intact. Areas where asphalt was patched (circa October 2019) appear to be in good condition

2. **Check integrity of permeable portions (e.g., soil) of cover system, include whether any sloughing, cracks, settlement, damage, etc.**

Discuss observations and any corrective actions:

Cover @ perimeter of parking lot (i.e., E, W, S sides) in good condition. Cover located N of Parking lot is largely exposed (see below), but does not appear to be eroding or migrating off the site or into the drainage channels/parking lot. Drainage channel in good condition. Mulch cover areas ok.

3. **Check integrity of vegetative cover (e.g., grass), include whether any dead areas, erosion, etc.**

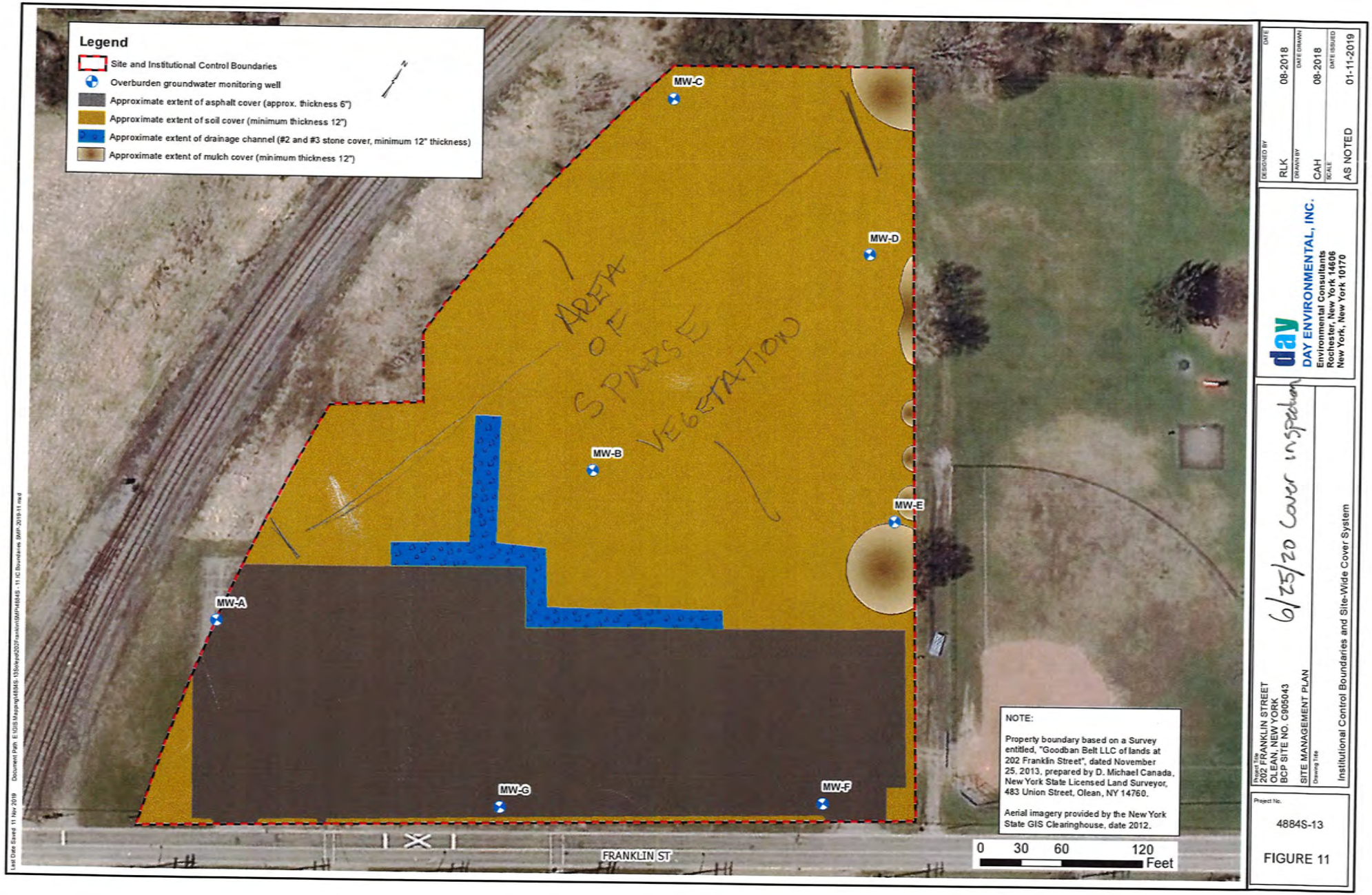
Discuss observations and any corrective actions:

Patches of dry vegetation observed around perimeter of parking lot. However, these are consistent with the semi-drought conditions. Vegetation over the area north of the parking lot is sparse, but present. This area was seeded circa November 2019, so may not have had sufficient time for vegetation to become well established. Recommend monitoring until next inspection before determination if corrective actions are required (e.g. re-seeding area.)

4. Groundwater Monitoring Well Assessment

Discuss observations and any corrective actions:

Monitoring wells gauged and sampled prior to inspection. The wells were determined to be intact and functioning as intended.


Legend
Site and Institutional Control Boundaries
Overburden groundwater monitoring well
Approximate extent of asphalt cover (approx. thickness 6")
Approximate extent of soil cover (minimum thickness 12")
Approximate extent of drainage channel (#2 and #3 stone cover, minimum 12" thickness)
Approximate extent of mulch cover (minimum thickness 12")
MW-A
MW-B
MW-C
MW-D
MW-E
MW-F
MW-G
AREA OF SPARSE VEGETATION
FRANKLIN ST
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.
0 30 60 120
Feet
6/25/20 Cover inspection
DESIGNED BY RLK DATE 08-2018
DRAWN BY CAH DATE DRAWN 08-2018
SCALE AS NOTED DATE ISSUED 01-11-2019
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043
SITE MANAGEMENT PLAN
Drawing Title
Institutional Control Boundaries and Site-Wide Cover System
Project No.
4884S-13
FIGURE 11
Last Date Saved: 11 Nov 2019 Document Path: E:\GIS Mapping\4884S-13\Deliver\2020\Franklin\SMP\4884S - 11 IC Boundaries (SMP-2019-11.mxd

Western portion of the asphalt cover over the Employee Parking Lot, located on the southern portion of the Site, facing northeast.

Eastern portion of the asphalt cover over the Employee Parking Lot, located on the southern portion of the Site, facing west.

North-central portion of the asphalt cover over the Employee Parking Lot, located on the southern portion of the Site, facing northwest.

Typical view of the soil cover (center), located along the southern edge of the Site, facing southwest

View of the soil cover (bottom), located at the southeast corner of the Site and along the southeast edge of the Site, facing north.

View of the soil cover (center) and asphalt cover (left), located along the southwestern edge of the site, facing south.

View of the soil cover, sparse vegetative cover (left) and asphalt cover (right), located on the western portion of the Site, facing northeast.

View of the soil cover (right) and asphalt cover (left), located on the eastern portion of the Site, facing west.

View of the soil cover and sparse vegeative cover, located on the northeast portion of the Site, facing south.

View of the soil cover and sparse vegeative cover, located on the northwest portion of the Site, facing east.

Typical view of the drainage channel, located adjacent to the north of the Employee Parking Lot, facing northeast.

Typical view of the mulch cover, located below/around select trees growing along the eastern edge of the Site, facing northeast.

ATTACHMENT C

ANALYTICAL LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION

ANALYTICAL REPORT

Lab Number:	L2027153
Client:	Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606
ATTN:	Charles Hampton
Phone:	(585) 454-0210
Project Name:	C905043
Project Number:	4884S-13
Report Date:	07/02/20

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: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2027153-01	MW-A 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 17:40	06/26/20
L2027153-02	MW-B 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 15:10	06/26/20
L2027153-03	MW-C 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 12:17	06/26/20
L2027153-04	MW-D 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 13:19	06/26/20
L2027153-05	MW-E 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 14:18	06/26/20
L2027153-06	MW-F 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 16:02	06/26/20
L2027153-07	MW-G 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 16:47	06/26/20
L2027153-08	FB 06252020	WATER	202 FRANKLIN STREET OLEAN NY	06/25/20 10:40	06/26/20

Project Name:	C905043	**Lab Number:**	L2027153
Project Number:	4884S-13	**Report Date:**	07/02/20

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: C905043 **Lab Number:** L2027153
Project Number: 4884S-13 **Report Date:** 07/02/20

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

L2027153-02: The collection date and time on the chain of custody was 25-JUN-20 15:10; however, the collection date and time on the container label was 25-JUN-20 15:12. At the client's request, the collection date and time is reported as 25-JUN-20 15:10.

Total Metals

L2027153-08: The Field Blank has a concentration above the reporting limit for Aluminum, Barium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Zinc. The results were confirmed with a screen of the bottle.

The WG1387315-7/-8 MS/MSD recoveries for calcium (65%/30%), performed on L2027153-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 07/02/20

METALS

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-01 Date Collected: 06/25/20 17:40

Client ID: MW-A 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0156		mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00070		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Barium, Total	0.1204		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Calcium, Total	73.6		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Chromium, Total	0.00021	J	mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00050		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Copper, Total	0.00114		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Iron, Total	5.89		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Magnesium, Total	3.12		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Manganese, Total	1.092		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:23	EPA 7470A	1,7470A	GD
Nickel, Total	0.00102	J	mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Potassium, Total	4.14		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Sodium, Total	20.6		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM
Zinc, Total	0.01181		mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 18:13	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-02 Date Collected: 06/25/20 15:10

Client ID: MW-B 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0123		mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00065		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Barium, Total	1.101		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Calcium, Total	124.		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Copper, Total	0.00113		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Iron, Total	2.74		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Magnesium, Total	19.9		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Manganese, Total	1.374		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:25	EPA 7470A	1,7470A	GD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Potassium, Total	3.85		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Sodium, Total	90.2		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 18:28	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-03 Date Collected: 06/25/20 12:17

Client ID: MW-C 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00828	J	mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00561		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Barium, Total	0.00735		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Calcium, Total	82.4		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Copper, Total	0.00130		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Iron, Total	0.0457	J	mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Magnesium, Total	8.83		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Manganese, Total	0.04445		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:02	EPA 7470A	1,7470A	GD
Nickel, Total	0.00151	J	mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Potassium, Total	4.73		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Selenium, Total	0.0288		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Sodium, Total	14.1		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Thallium, Total	0.00018	J	mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM
Zinc, Total	0.00705	J	mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 18:23	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-04 Date Collected: 06/25/20 13:19

Client ID: MW-D 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00381	J	mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Arsenic, Total	0.05273		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Barium, Total	2.444		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Calcium, Total	131.		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00020	J	mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Copper, Total	0.00096	J	mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Iron, Total	13.4		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Magnesium, Total	24.4		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Manganese, Total	1.955		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:27	EPA 7470A	1,7470A	GD
Nickel, Total	0.00064	J	mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Potassium, Total	3.85		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Sodium, Total	179.		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM
Zinc, Total	0.00499	J	mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 18:33	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-05 Date Collected: 06/25/20 14:18

Client ID: MW-E 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	36.5		mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Arsenic, Total	0.03932		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Barium, Total	2.528		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00219		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00057		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Calcium, Total	141.		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Chromium, Total	0.04066		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Cobalt, Total	0.05724		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Copper, Total	0.09966		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Iron, Total	101.		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Lead, Total	0.1544		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Magnesium, Total	41.0		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Manganese, Total	7.993		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Mercury, Total	0.00030		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:29	EPA 7470A	1,7470A	GD
Nickel, Total	0.09513		mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Potassium, Total	6.31		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Selenium, Total	0.0206		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Sodium, Total	165.		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Thallium, Total	0.00044	J	mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Vanadium, Total	0.03180		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM
Zinc, Total	0.4326		mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 18:38	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-06 Date Collected: 06/25/20 16:02

Client ID: MW-F 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00791	J	mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Antimony, Total	0.00068	J	mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00058		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Barium, Total	0.2467		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Calcium, Total	109.		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00049	J	mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Copper, Total	0.00107		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Iron, Total	0.0710		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Magnesium, Total	16.0		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Manganese, Total	1.455		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:31	EPA 7470A	1,7470A	GD
Nickel, Total	0.00166	J	mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Potassium, Total	3.59		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Sodium, Total	79.2		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Thallium, Total	0.00026	J	mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM
Zinc, Total	0.00597	J	mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 19:20	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-07 Date Collected: 06/25/20 16:47

Client ID: MW-G 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00705	J	mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Antimony, Total	0.00045	J	mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00207		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Barium, Total	1.043		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Calcium, Total	175.		mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Copper, Total	0.00093	J	mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Iron, Total	3.79		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Magnesium, Total	13.9		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Manganese, Total	1.182		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:34	EPA 7470A	1,7470A	GD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Potassium, Total	5.51		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Sodium, Total	50.9		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM
Zinc, Total	0.00347	J	mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 19:25	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

SAMPLE RESULTS

Lab ID: L2027153-08 Date Collected: 06/25/20 10:40

Client ID: FB 06252020 Date Received: 06/26/20

Sample Location: 202 FRANKLIN STREET OLEAN NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0185		mg/l	0.0100	0.00327	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Barium, Total	0.00312		mg/l	0.00050	0.00017	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00031		mg/l	0.00020	0.00005	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Calcium, Total	0.831		mg/l	0.100	0.0394	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Chromium, Total	0.00205		mg/l	0.00100	0.00017	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00017	J	mg/l	0.00050	0.00016	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Copper, Total	0.00508		mg/l	0.00100	0.00038	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Iron, Total	0.128		mg/l	0.0700	0.0191	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Lead, Total	0.00427		mg/l	0.00100	0.00034	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Magnesium, Total	0.0834		mg/l	0.0700	0.0242	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Manganese, Total	0.00420		mg/l	0.00100	0.00044	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 14:36	EPA 7470A	1,7470A	GD
Nickel, Total	0.00640		mg/l	0.00200	0.00055	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Potassium, Total	0.526		mg/l	0.100	0.0309	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Sodium, Total	2.45		mg/l	0.100	0.0293	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM
Zinc, Total	0.02048		mg/l	0.01000	0.00341	1	06/30/20 05:05	07/01/20 11:12	EPA 3005A	1,6020B	AM

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1387315-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Calcium, Total	0.0611	J	mg/l	0.100	0.0394	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Iron, Total	ND		mg/l	0.0700	0.0191	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00100	0.00014	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/30/20 05:05	06/30/20 16:55	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1387321-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/30/20 07:25	06/30/20 13:58	1,7470A	GD

Project Name: C905043 **Lab Number:** L2027153

Project Number: 4884S-13 **Report Date:** 07/02/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: C905043

Project Number: 4884S-13

Lab Number: L2027153

Report Date: 07/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1387315-2								
Aluminum, Total	98		-		80-120	-		
Antimony, Total	94		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	106		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	107		-		80-120	-		
Iron, Total	105		-		80-120	-		
Lead, Total	110		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	99		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	110		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	97		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1387315-2					
Zinc, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1387321-2					
Mercury, Total	108	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 06252020	QC Batch ID: WG1387315-7					WG1387315-8	QC Sample: L2027153-03		Client ID: MW-C			
Aluminum, Total	0.00828J	2	1.95	98		1.88	94		75-125	4		20
Antimony, Total	ND	0.5	0.4657	93		0.4614	92		75-125	1		20
Arsenic, Total	0.00561	0.12	0.1304	104		0.1284	102		75-125	2		20
Barium, Total	0.00735	2	2.043	102		1.975	98		75-125	3		20
Beryllium, Total	ND	0.05	0.05274	105		0.05270	105		75-125	0		20
Cadmium, Total	ND	0.051	0.05522	108		0.05495	108		75-125	0		20
Calcium, Total	82.4	10	88.9	**65**	Q	85.4	**30**	Q	75-125	4		20
Chromium, Total	ND	0.2	0.1981	99		0.1914	96		75-125	3		20
Cobalt, Total	ND	0.5	0.5037	101		0.4954	99		75-125	2		20
Copper, Total	0.00130	0.25	0.2682	107		0.2560	102		75-125	5		20
Iron, Total	0.0457J	1	1.09	109		1.05	105		75-125	4		20
Lead, Total	ND	0.51	0.5257	103		0.5023	98		75-125	5		20
Magnesium, Total	8.83	10	18.8	100		18.2	94		75-125	3		20
Manganese, Total	0.04445	0.5	0.5263	96		0.5155	94		75-125	2		20
Nickel, Total	0.00151J	0.5	0.4885	98		0.4748	95		75-125	3		20
Potassium, Total	4.73	10	14.1	94		13.8	91		75-125	2		20
Selenium, Total	0.0288	0.12	0.153	104		0.148	99		75-125	3		20
Silver, Total	ND	0.05	0.05466	109		0.05343	107		75-125	2		20
Sodium, Total	14.1	10	23.0	89		22.2	81		75-125	4		20
Thallium, Total	0.00018J	0.12	0.1207	100		0.1158	96		75-125	4		20
Vanadium, Total	ND	0.5	0.4876	98		0.4752	95		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 06252020	QC Batch ID: WG1387315-7				WG1387315-8		QC Sample: L2027153-03	Client ID: MW-C	
Zinc, Total	0.00705J	0.5	0.5531	111	0.5365	107	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-08 06252020	QC Batch ID: WG1387321-3				WG1387321-4		QC Sample: L2027153-03	Client ID: MW-C	
Mercury, Total	ND	0.005	0.00518	104	0.00517	104	75-125	0	20

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

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(*)
L2027153-01A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		TL-6020T(180),SE-6020T(180),FE-6020T(180),BA-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2027153-02A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2027153-03A	Plastic 250ml HNO3 preserved	A	NA		4.5	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),MS/MSD(),AL-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2027153-03A1	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2027153-03A2	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2027153-04A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)
L2027153-05A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2027153-06A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2027153-07A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: C905043
Project Number: 4884S-13

Lab Number: L2027153
Report Date: 07/02/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2027153-08A	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name:	C905043	**Lab Number:**	L2027153
Project Number:	4884S-13	**Report Date:**	07/02/20

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.

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.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	C905043	**Lab Number:**	L2027153
Project Number:	4884S-13	**Report Date:**	07/02/20

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.

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'.

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. If a 'Total' result is requested, the results of its individual components will also be reported.

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.)

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.

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 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

Report Format: DU Report with 'J' Qualifiers

Project Name:	C905043	**Lab Number:**	L2027153
Project Number:	4884S-13	**Report Date:**	07/02/20

Data Qualifiers

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	C905043	**Lab Number:**	L2027153
Project Number:	4884S-13	**Report Date:**	07/02/20

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 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; 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.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
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.**

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.

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.

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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

Page 1 of 1

Date Rec'd in Lab: 6/27/20

ALPHA Job #: L2027153

Project Information

Project Name: C905043
Project Location: 202 Franklin Street Olean NY
Project #: 4834 S-13
(Use Project name as Project #) ☐
Project Manager: C. Humpton
ALPHAQuote #:

Client Information

Client: Day Environmental Inc
Address: 1563 Lyell Avenue Rochester NY
Phone: 585-454-0210
Fax:
Email: Champton@daymail.net

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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.

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's Initials	ANALYSIS: TAL Metals	Sample Specific Comments	Total Bottles
27153-01	MW-A 06252020	6/25/20	17:40	GW	HMZ	x		1
-02	MW-B 06252020	↓	15:10	↓	↓	x		1
-03	MW-C 06252020	↓	12:17	↓	↓	x	Also MS/MSD	3
-04	MW-D 06252020	↓	13:19	↓	↓	x		1
-05	MW-E 06252020	↓	14:18	↓	↓	x		1
-06	MW-F 06252020	↓	16:02	↓	↓	x		1
-07	MW-G 06252020	↓	16:47	↓	↓	x		1
-08	FB 06252020	↓	10:40	DI	GAH	x		1
	~~FB 06252020~~							

	TAL Metals
Container Type	P
Preservative	C

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: AAL	Date/Time
[signature]	6/26/20 1:21	[signature]	6/26/20 1522
[signature]	6/26/20 1522	[signature]	6/27/20 01:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ATTACHMENT C

INSTITUTIONAL AND ENGINEERING CONTROL CERTIFICATION FORMS

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. **C905043**

Site Name 202 Franklin Street

Site Address: 202 Franklin Street Zip Code: 14760
City/Town: Olean
County: Cattaraugus
Site Acreage: 5.159

Reporting Period: December 11, 2019 to April 11, 2021

	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.

	YES	NO
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. C905043 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
94.040-1-3	Silence Dogood LLC	Ground Water Use Restriction Landuse Restriction Site Management Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
94.040-1-3	Cover System

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. C905043

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 Jeffrey Belt (print name) at 211 Franklin Street, Olean, NY 14760 (print business address),

am certifying as Representative of the Owner (Owner or Remedial Party)

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

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

Apr 21, 2021
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 Raymond L. Kampff (print name) at 1563 Lyell Avenue, Rochester, NY 14606 (print business address),

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
Raymond L. Kampff		4-22-2021

ATTACHMENT D

DATA USABILITY SUMMARY REPORT

Data Usability Summary Report

Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

202 Franklin St.
Alpha Analytical SDG#L2027153
November 6, 2020
Sampling date: 6/25/2020

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, project located at 202 Franklin St., Alpha Analytical #L2027153 submitted to Vali-Data of WNY, LLC on October 6, 2020. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Inorganics (6020B) and Mercury (7470A).

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Compound Quantitation.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except Ca and Tl were detected above the MDL, below the reporting limit and is qualified as estimated in WG1387315-1BLANK. Fe was detected above the MDL, below the reporting limit and is qualified as estimated in R1328787-20CCB, 22CCB, 26CCB and R1329271-2ICB, 12CCB. Tl was detected above the MDL, below the reporting limit and is qualified as estimated in R1329271-9CCB, 12CCB. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit.
Fe was detected above the reporting limit in R1328787-2ICB, 24CCB and R1329271-9CCB. Tl was detected above the reporting limit in R1328787-20CCB, 22CCB, 24CCB, 26CCB and R1329271-2ICB. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as undetected in associated samples in which they were detected above the reporting limit but below the blank concentration. These target analytes should be qualified as estimated high in associated samples in which they were detected above the blank concentration.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
No field duplicate was acquired for this analysis.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met except Co was detected above the MDL, below the reporting limit and is qualified as estimated in FB 06252020. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.
Al, Ba, Cd, Ca, Cr, Fe, Pb, Mg, Mn, Ni, K, Na and Zn were detected above the reporting limit in FB 06252020. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as undetected in associated samples in which they were detected above the reporting limit but below the blank concentration. These target analytes should be qualified as estimated high in associated samples in which they were detected above the blank concentration.

CALIBRATION

All criteria were met.