Environmental Advantage

Environmental Advantage, Inc. 3636 N. Buffalo Road Orchard Park, New York 14127
Industrial Compliance, Hazardous Materials Management, Site Assessment/Remediation

May 10, 2022

Megan Kuczka, DER Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203

Re: **Monitoring and Sampling Summary (1st Quarter 2022)**
Site Management Plan, Post Installation Monitoring & Inspection
MOD-PAC CORP. Site, 1801 Elmwood Avenue, Buffalo, New York

Dear Ms. Kuczka:

In accordance with Section 4.4 Post-Remediation Media Monitoring and Sampling of the Site Management Plan (SMP)[1] for NYSDEC Site #C915314, Environmental Advantage, Inc. (EA), has completed the 2022 first quarter of the Sub-Slab Depressurization (SSD) systems post-installation inspections, monitoring, sampling/analysis and system maintenance. All information and data collected within the first six months of the SSD systems post-installation activities were summarized and included in the Site's Final Engineering Report[2] (FER), and served as the basis for the required tasks as identified in the SMP. Additionally, a summary letter report[3] was submitted to the Department on March 31, 2020, which provided the results of the post-installation maintenance and monitoring of the SSD systems completed from late-September 2019 through March 2020 by Hazard Evaluations, Inc. (HEI). EA has completed all post-installation maintenance and monitoring since March 2020. EA has prepared this summary letter report which provides the results of the post-installation maintenance, inspection and monitoring of the SSD systems completed from January 1, 2022 through March 31, 2022. The attachments to this letter report include figures (Attachment A), summary tables (Attachment B), field notes (Attachment C), analytical laboratory reports (Attachment D), and activated carbon removal documents (Attachment E).

After discussions with the Department, New York State Department of Health (NYSDOH) representatives, and Matrix Environmental Technologies, Inc. (METI), the engineering firm responsible for the design and annual inspection and certification of the

1 "Site Management Plan for MOD-PAC Site, 1801 Elmwood Avenue, City of Buffalo, Erie County, New York, Site No. C915314" prepared by C&S Engineers, Inc., December 2019, revised March 2022 by Environmental Advantage, Inc.
2 "Final Engineering Report for MOD-PAC Site, 1801 Elmwood Avenue, City of Buffalo, Erie County, New York, Site No. C915314" prepared by C&S Engineers, Inc., November 2019.
3 "SSDS Monitoring and Sampling Summary (1st Quarter 2020)" prepared by Hazard Evaluations, Inc. (HEI), dated March 2020.

SSD systems, it was determined that monthly gauging and quarterly groundwater sampling of the Site's four groundwater monitoring wells subject to the remedial program was warranted to investigate the potential seasonal correlation to maintaining anegative pressure of at least 0.002 inches water column (WC) in the sub-slab. To this regard, monthly monitoring well water level gauging commenced in March 2021, and quarterly groundwater sampling commenced in July 2021. In addition to monthly gauging and quarterly groundwater sampling, monthly vacuum readings were collected for any vapor monitoring point (VMP) that failed to achieve the minimum negative pressure of at least 0.002 inches WC during quarterly SSD inspections. The monthly non-compliant VMP monitoring is continued for any affected VMP until that VMP achieves the minimum negative pressure as designed, with the exception of VMP-6A, which is located in a verified "dead zone" and always exhibits positive pressure readings. The locations of the groundwater monitoring wells and SSD systems are shown on Figure 1.

SSDS Installation

The SSD systems at the MOD-PAC CORP. (MPC) Site were installed to mitigate potential vapor migration into the building by maintaining a negative pressure of at least 0.002 inches WC in the sub-slab of three target areas; Area A the finished product storage area, Area B the cold storage garage, and Area C the facility maintenance area, as shown in Figures 2A – 2C provided in Attachment A.

These locations were selected based on elevated sub-slab vapor and/or indoor air sampling results detected during investigations completed in December 2017, April 2018 and May 2018. The SSD systems were installed during September 2019, and all systems were operational and tested by October 25, 2019. Post-installation maintenance, inspection and monitoring were completed in accordance with the NYSDEC-approved Work Plan prepared by METI[4].

Post-Installation SSD Maintenance and Monitoring

In accordance with the Work Plan prepared by METI, system checks are completed in all areas on a quarterly basis. Routine monitoring includes the identification and repair of any leaks, operational status checks of blowers and fans, documentation of manifold settings and vacuum point at each vapor extraction point, and documentation of vacuum at each monitoring point. Non-routine maintenance, including carbon change outs, is completed as necessary based on analytical data of pre- and post-carbon samples. During the quarterly system checks, pre- and post-carbon air samples are collected from Area A. Samples are submitted for laboratory analysis of volatile organic compounds (VOCs) via Environmental Protection Agency (EPA) Method TO-15. In addition, pre- and post-carbon photoionization detector (PID) readings are collected from Area A, as well as from Areas B and C effluent, on monthly basis. Area-specific findings during the Q1 2022 monitoring event are summarized in Table 1, and historical data are presented in Table 2A for Area A, Table 2B for Area B,

4 "Work Plan for Sub-Slab Depressurization Systems" prepared by Matrix Environmental Technologies, Inc., dated February 2019.

and Table 2C for Area C, all of which are provided in Attachment B. Air sample results for the current monitoring period are summarized in Table 3.

SSD Area A – Finished Product Storage Area

During the Q1 2022 monitoring event, manometer readings for all VMPs in Area A, with the exception of VMP-6A and VMP-8A, achieved the minimum negative pressure of at least 0.002 inches WC in the sub-slab. VMP-6A has been verified as a dead point, as described in Section 5.1 – 'Area A Testing' of METI's "System Start-up Report and Operation and Maintenance Plan"[5] as provided within Appendix H – Operation and Maintenance Manual of the SMP.

Within this system, pre-carbon PID readings ranged from 0 to 0.08 ppm, and post-carbon PID readings were consistently 0.0 parts per million (ppm) throughout the monitoring period. Pre- and post-carbon air samples were collected on March 10, 2022 and analyzed for VOCs via EPA Method TO-15. Post-carbon analytical data exhibited lower concentrations of all chlorinated compounds and all non-chlorinated compounds with the exception of bromoform, bromomethane, chloromethane, and dichlorodifluoromethane when compared to pre-carbon concentrations, with overall target chlorinated VOC (cVOC)[6] reduction of 96.55 percent. These air analytical results indicate the fresh carbon is adequately removing the bulk of the VOCs detected. Carbon replacement was completed in September 2020 and December 2021, with the system started in October 2019; therefore, the approximate carbon life has consistently been one year over the past 2 years since system start-up. Air sample results for Q1 2022 are summarized in Table 3, with historical air sample results summarized in Table 4, provided in Attachment B. The complete analytical laboratory report is provided in Attachment D.

SSD Area B – Cold Storage Area

During the Q1 2022 monitoring event, manometer readings for all VMPs did achieve the minimum 0.002 inches WC in the sub-slab with the exception of VMP-5B and VMP-6B during the Q1 2022 monitoring event. VMP-6B exhibited a positive pressure reading in December 2021, followed by a compliant negative pressure reading of -0.012 inches WC on January 11, 2022. System effluent PID readings were 0.0 ppm throughout the monitoring period. Air samples were not collected during the current monitoring period. Based on previous air sampling results obtained, a determination was made that a carbon system did not need to be installed on this emission point.

SSD Area C – Maintenance Area

During the Q1 2022 monitoring event, manometer readings for all VMPs met the minimum 0.002 inches WC in the sub-slab with the exception of VMP-1C and VMP-4C.

[5] Matrix Environmental Technologies, Inc. 'Sub-Slab Depressurization System Start-up Report and Operation and Maintenance Plan, December 12, 2019.

[6] NYSDOH Target cVOCs are included in this calculation, specifically those listed in the NYSDOH "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York", May 2017 Update. Specifically: 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, cis-1,2-Dichloroethene, Methylene chloride, Tetrachloroethene, Trichloroethene, and Vinyl chloride

The EW-1C fan was replaced on January 31, 2022 as will be further described below. Post fan installation manometer readings collected in Area C exclusively on February 2, 2022, exhibited compliant manometer readings for all VMPs in Area C with the exception of VMP-1C which exhibited a positive pressure reading. System effluent PID readings were consistently 0.0 throughout the current monitoring period for EW-1C, EW-2C, and EW-3C.

Groundwater Monitoring

During the Q2 2021 monitoring period, water table elevation measurements collected in April, May and June 2021 ranged from 4.13 feet below grade to 6.80 feet below grade; water table elevations were the highest in April 2021 and the lowest in June 2021. During the Q3 2021 monitoring period, water table elevation measurements collected in July, August and September 2021 ranged from 3.35 feet below grade to 6.95 feet below grade; water table elevations were the highest in September 2021 and the lowest in July 2021. During the Q4 2021 monitoring period water table elevation measurements collected in November and December 2021 ranged from 3.30 feet below grade to 6.30 feet below grade; water table elevations were the highest in November 2021 and the lowest in December 2021. Water table elevation measurements were unable to be collected in October 2021 due to the Covid-19 pandemic concerns. During the current monitoring period water table elevation measurements collected in January, February, and March 2022 ranged from 3.85 feet below grade to 7.36 feet below grade. During this monitoring period, water table elevations were the highest in January 2022 and the lowest in February 2022. Since the monthly collection of water table elevation measurements commenced in March 2021, water levels were the highest in November 2021 and the lowest in July 2021 for the four wells included in the remedial program: MW – 3, MW – 11, MW – 12, and MW – 13. Please Note: Water table elevations were measured from the top of the riser pipe for each respective well. Historical groundwater monitoring results are summarized in Table 5 provided in Attachment B.

Groundwater samples were collected on January 12, 2022, from the four monitoring wells included in the remedial program: MW – 3, MW – 11, MW – 12, and MW – 13. All samples were submitted for laboratory analysis of Target Compound List (TCL) VOCs via EPA Method 8260. Groundwater sample results are summarized in Table 6 in Attachment B. Five cVOCs and one non-chlorinated VOC were detected in the groundwater samples. Cis-1,2- dichloroethene, trans-1,2- dichloroethene, trichloroethene (TCE), and vinyl chloride were detected at concentrations that exceed the TOGS 1.1.1 Groundwater Effluent Limitations[7]. 1,1-dichloroethene and benzene were also detected; however, at concentrations below the TOGS 1.1.1 Limitations. In January 2022, TCE levels in MW – 3 decreased significantly from the previously recorded November 2021 and July 2021 levels. TCE levels in MW-3 were lower than pre-remedy concentrations during January 2022, exhibiting a 32.14 percent decrease when compared to the February 2018 concentrations. MW – 11 exhibited lower TCE concentrations in January 2022 that had been recorded in July 2021 and November 2021, and TCE concentrations in MW-13 remained relatively the same in January 2022

[7] NYSDEC "Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" dated June 1998.

as compared to November 2021. Both MW- 11 and MW-13 exhibited lower TCE levels than pre-remedy concentrations, a 45 percent and 53.75 percent decrease, respectively, for the January 2022 sampling event. MW – 12 has consistently exhibited non-detect VOCs concentrations as has been characteristic of this particular well. Historical groundwater monitoring and sampling data results are summarized in Table 6 in Attachment B. The complete analytical laboratory report is provided in Attachment D.

Corrective Measures

During the Q4 2021 monitoring event in December, EA noted that vapor trenches for EW-2B and EW-3B had a leak requiring resealing. Additionally, the vapor trenches for EW-8B and EW-3C had a few minor cracks present. However, there was no evidence of air leakage in the trenches for EW-8B and EW-3C during this time. EA recommended to the to the Site owner re-epoxying the cracks in the vapor trenches noted above, and this work was completed from January 10 through January 18, 2022. During the Q1 2022 monitoring event in March, EA noted that vapor trench for EW-8B had a few minor cracks present. However, there was no evidence of air leakage in the trenches for EW-8B during this time. The Site owner informed EA that the entire floor in Area B would be resurfaced and refinished as part of improvements to transform Area B into more roll storage. A portion of this work was completed from March 11 through March 16, 2022; however the refinishing was not complete in the vicinity of the vapor trench for EW-8B. VMP-8B however was temporarily sealed, until the remaining resurfacing in Area B is completed.

On January 24, 2022, EA was notified by the Site owner that the EW-1C fan was malfunctioning. A backup fan was reinstalled at EW-1C on January 31, 2022 by METI, during which time it was determined that the cause of the malfunction was due to the lines for the condensate collection freezing and causing water to enter the fan. A similar scenario occurred during the previous two winter/spring seasons in Area C, in April 2020 the EW-1C fan was removed and repaired and in February 2021, both the EW-1C and EW-2C were removed and replaced with new fans. In May 2021, timers and drain lines were installed on the fans in Area C to allow condensate to drain from the fans. At the request of the Department, on December 10, 2021, condensate collection systems were installed in Area C to collect any condensate draining from the fans. METI plans on modifying the condensate collection systems in spring 2022, to prevent future issues from the collection lines from freezing. It is probable that the condensate buildup that has been observed in Area C over the past two winter/early spring months could be contributing to the non-compliant pressure readings in Area C.

During the Quarterly Inspection completed on December 10, 2021, all vapor monitoring points (VMPs) met the minimum 0.002 inches WC negative pressure in the sub-slab as required, with the exception of VMP-6B. In January during a re-check, VMP-6B met the minimum 0.002 inches WC negative pressure in the sub-slab while EA was on-site providing excavation oversight. During the Quarterly Inspection completed on March 10, 2022, six VMPs failed to meet the minimum 0.002 inches WC negative pressure including VMP-6A ("dead point")[8], VMP-8A, VMP-5B, VMP-6B, VMP-1C, and

[8] **Please Note:** VMP-6A had not been monitored from June 2020 through the previous

VMP-4C. A review of Tables 2A, 2B, and 2C reveal that the above mentioned VMPs fail to meet the minimum negative pressure on a more consistent basis than other VMPs, particularly during the colder months of the year, November through March/April. A cause has not yet been determined for the non-compliant readings at VMP-8A, VMP-5B, and VMP-6B. Fan malfunction due to condensate build up seems to have some correlation with positive pressure readings in Area C. The potential seasonal correlation to maintaining a negative pressure of at least 0.002 inches water column (WC) in the sub-slab of the three target areas is still under investigation and will be addressed in the next Periodic Review Report (PRR) after a full year of data has been collected and analyzed.

Conclusions and Scheduling

During the Q1 2022 monitoring period, all manometers met the minimum 0.002 inches WC in the sub-slab with the exception of VMP-6A ("dead point"), VMP-8A, VMP-5B, VMP-6B, VMP-1C, and VMP-4C. All of the SSD systems appeared to be functioning properly.

Post-carbon analytical data collected during Q1 2022 exhibited lower concentrations of all chlorinated compounds and all non-chlorinated compounds with the exception of bromoform, bromomethane, chloromethane, and dichlorodifluoromethane when compared to pre-carbon concentrations, with overall target chlorinated VOC (cVOC) reduction of 96.55 percent. Carbon replacement was completed on December 10, 2021, prior to the previous quarterly sample collection. Previous carbon replacement was completed on September 23, 2020; therefore carbon life for the treatment system in Area A has been consistent at approximately 1 year. Spent carbon was removed from the Site for regeneration on February 3, 2022. Carbon transport documents and profile renewal analytical are included in Attachment E. Continued system inspections, monitoring, and sampling will be completed for the second quarter of 2022.

The potential seasonal correlation to maintaining a negative pressure of at least 0.002 inches water column (WC) in the sub-slab of the three target areas is still under investigation. As mentioned above, condensate buildup in Area C causing fan malfunction seems to correlate with non-compliant pressure readings in this area. The seasonal correlation to maintaining target pressure readings will be addressed in the next Periodic Review Report (PRR) after a full year of data has been collected and analyzed.

December 2021 monitoring event because this VMP has been verified as a "dead point" due to subsurface features. In February 2022, the Department requested resuming monitoring of VMP-6A.

If you have any questions regarding this information presented above, please contact me directly for further information.

Very truly yours,
ENVIRONMENTAL ADVANTAGE, INC.

C. Mark Hanna, CHMM
President

Attachments

ATTACHMENT A

Figures

Figure adapted from Figure 3 within the Site Management Plan for MOD-PAC BCP Site No. C915314

ENVIRONMENTAL ADVANTAGE, INC.

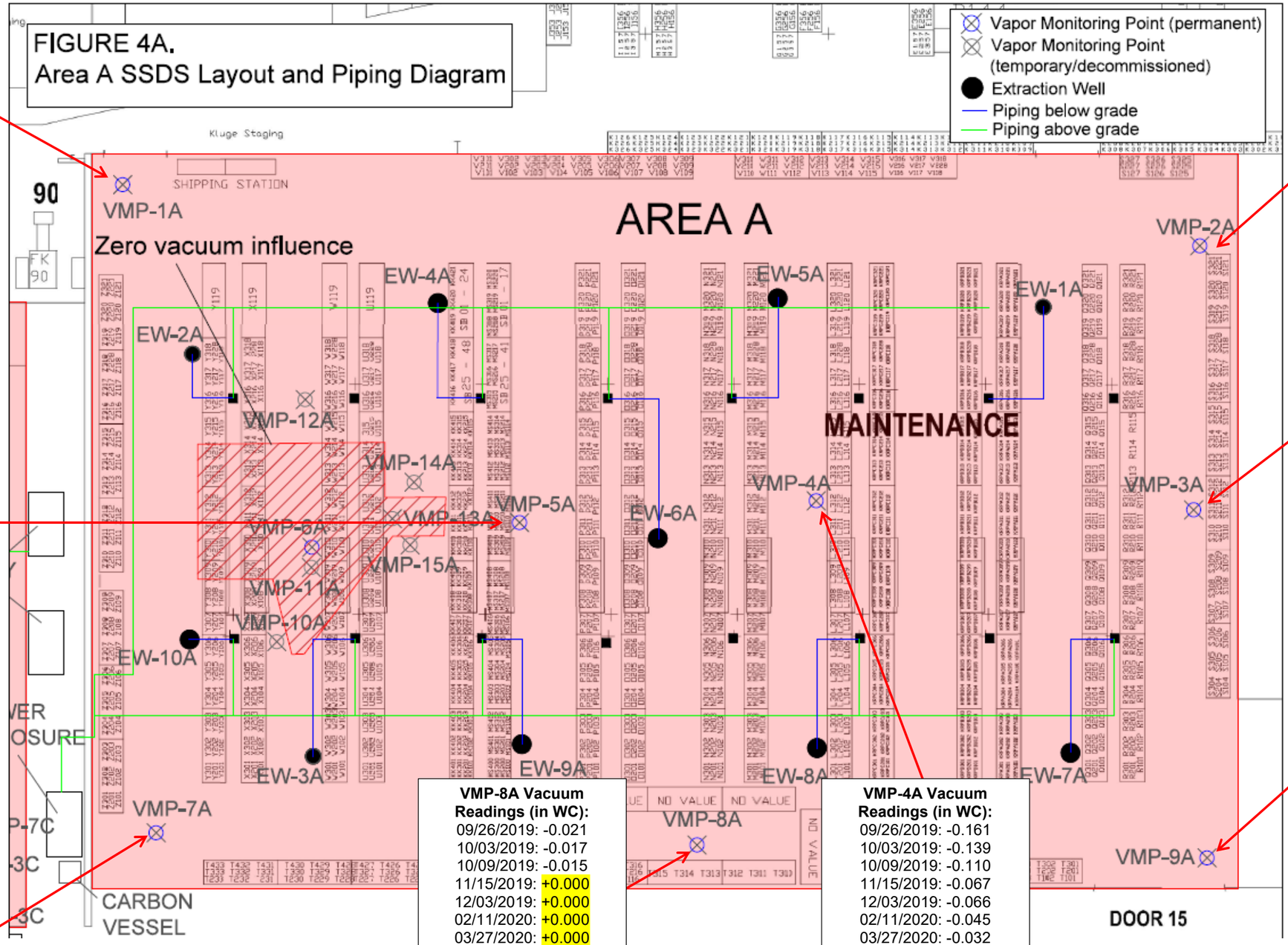
Regulatory Compliance – Site Investigations – Facility Inspections

BCP SITE PLAN
MOD-PAC, CORP.
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: MB	SCALE: NOT TO SCALE	PROJECT: 01304
CHECKED BY: CMH	DATE: 11/2021	FIGURE NO: 1

THIS FIGURE WAS ADAPTED FROM SITE MANAGEMENT PLAN PREPARED FOR MOD-PAC CORPORATION (DECEMBER 2019)

FIGURE 4A.
Area A SSDS Layout and Piping Diagram



VMP-1A Vacuum Readings (in WC):
09/26/2019: -0.066
10/03/2019: -0.065
10/09/2019: -0.061
11/05/2019: -0.041
12/03/2019: -0.045
02/11/2020: -0.037
03/27/2020: -0.025
06/29/2020: -0.053
09/15/2020: -0.053
12/08/2020: -0.048
03/30/2021: -0.038
06/11/2021: -0.073
09/08/2021: -0.091
12/10/2021: -0.065
03/10/2022: -0.045

VMP-2A Vacuum Readings (in WC):
09/26/2019: -0.044
10/03/2019: -0.037
10/09/2019: -0.034
11/15/2019: -0.029
12/03/2019: -0.025
02/11/2020: -0.020
03/27/2020: -0.023
06/29/2020: -0.064
09/15/2020: -0.052
12/08/2020: -0.033
03/30/2021: -0.052
06/11/2021: -0.065
09/08/2021: -0.088
12/10/2021: -0.056
03/10/2022: -0.040

VMP-3A Vacuum Readings (in WC):
09/26/2019: -0.075
10/03/2019: -0.053
10/09/2019: -0.045
11/15/2019: -0.023
12/03/2019: -0.031
02/11/2020: -0.015
03/27/2020: -0.016
06/29/2020: -0.063
09/15/2020: -0.043
12/08/2020: -0.026
03/30/2021: -0.032
06/11/2021: -0.055
09/08/2021: -0.075
12/10/2021: -0.043
03/10/2022: -0.045

VMP-5A Vacuum Readings (in WC):
09/26/2019: -0.128
10/03/2019: -0.116
10/09/2019: -0.103
11/15/2019: -0.062
12/03/2019: -0.056
02/11/2020: -0.036
03/27/2020: -0.032
06/29/2020: -0.080
09/15/2020: -0.033
12/08/2020: -0.050
03/30/2021: -0.022
06/11/2021: -0.074
09/08/2021: -0.086
12/10/2021: -0.052
03/10/2022: -0.040

VMP-9A Vacuum Readings (in WC):
09/26/2019: -0.173
10/03/2019: -0.105
10/09/2019: -0.100
11/15/2019: -0.067
12/03/2019: -0.054
02/11/2020: -0.037
03/27/2020: -0.022
06/29/2020: -0.094
09/15/2020: -0.058
12/08/2020: -0.065
03/30/2021: -0.047
06/11/2021: -0.074
09/08/2021: -0.149
12/10/2021: -0.088
03/10/2022: -0.097

VMP-7A Vacuum Readings (in WC):
09/26/2019: -0.025
10/03/2019: -0.019
10/09/2019: -0.020
11/15/2019: -0.013
12/03/2019: -0.010
02/11/2020: +0.000
03/27/2020: +0.000
06/29/2020: -0.010
09/15/2020: -0.017
12/08/2020: +0.000
03/30/2021: -0.020
06/11/2021: -0.026
09/08/2021: -0.028
12/10/2021: -0.017
03/10/2022: -0.010

VMP-8A Vacuum Readings (in WC):
09/26/2019: -0.021
10/03/2019: -0.017
10/09/2019: -0.015
11/15/2019: +0.000
12/03/2019: +0.000
02/11/2020: +0.000
03/27/2020: +0.000
06/29/2020: -0.017
09/15/2020: -0.014
12/08/2020: +0.000
03/30/2021: -0.014
06/11/2021: -0.022
09/08/2021: -0.190
12/10/2021: -0.005
03/10/2022: +0.000

VMP-4A Vacuum Readings (in WC):
09/26/2019: -0.161
10/03/2019: -0.139
10/09/2019: -0.110
11/15/2019: -0.067
12/03/2019: -0.066
02/11/2020: -0.045
03/27/2020: -0.032
06/29/2020: -0.124
09/15/2020: -0.093
12/08/2020: -0.152
03/30/2021: -0.063
06/11/2021: -0.105
09/08/2021: -0.140
12/10/2021: -0.068
03/10/2022: -0.080

ENVIRONMENTAL ADVANTAGE, INC.
Regulatory Compliance – Site Investigations – Facility Inspections

SSDS AREA A MANOMETER READINGS
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: MS	SCALE: NOT TO SCALE	PROJECT: 01304
CHECKED BY: CMH	DATE: 03/2022	FIGURE NO: 2A

THIS FIGURE WAS ADAPTED FROM SITE MANAGEMENT PLAN PREPARED FOR MOD-PAC CORPORATION (DECEMBER 2019)

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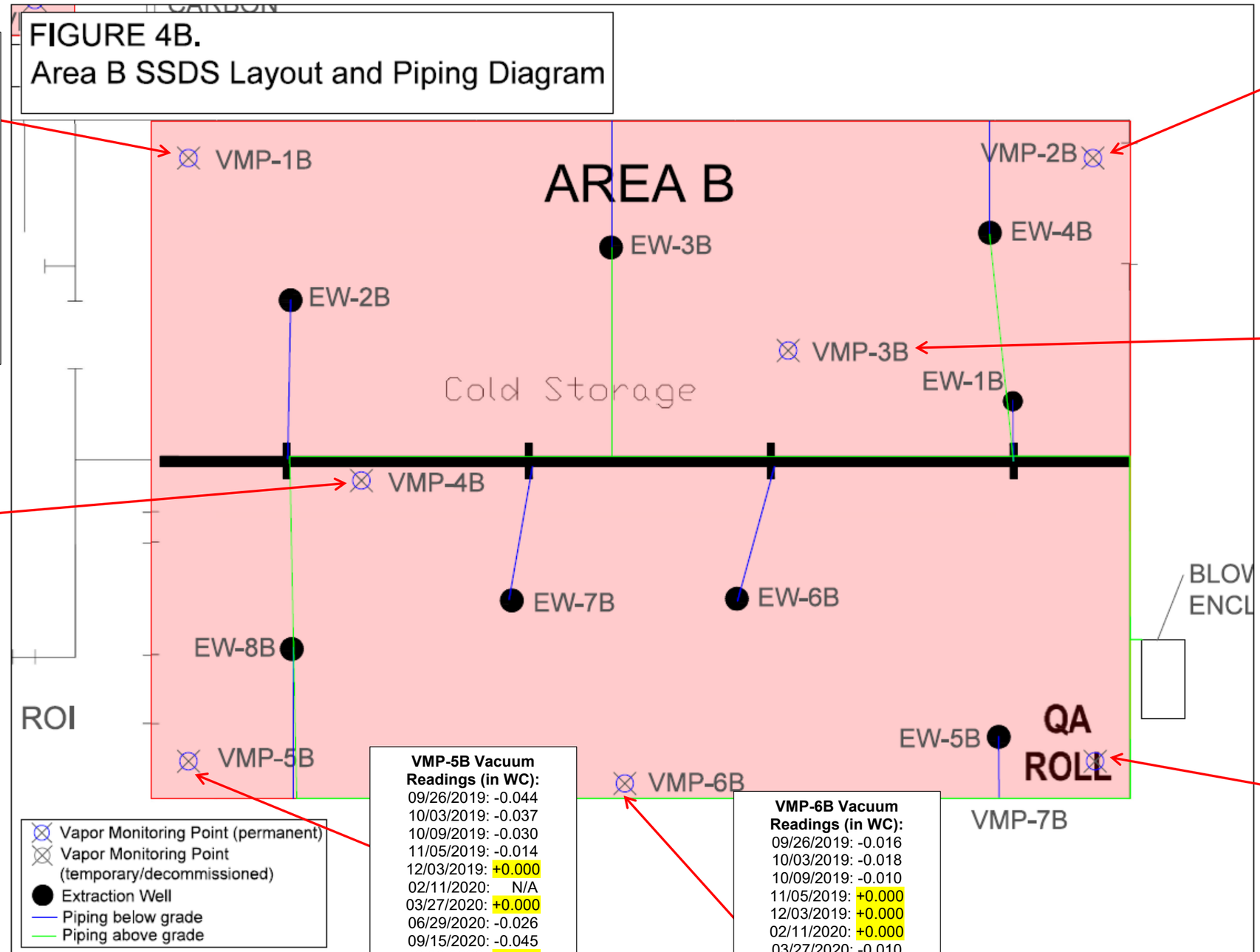
FIGURE 4B.
Area B SSDS Layout and Piping Diagram



VMP-1B Vacuum Readings (in WC):
09/26/2019: N/A
10/03/2019: -0.023
10/09/2019: -0.018
11/05/2019: -0.016
12/03/2019: -0.014
02/11/2020: +0.000
03/27/2020: +0.000
06/29/2020: -0.018
09/15/2020: -0.017
12/08/2020: +0.000
03/30/2021: -0.010
06/11/2021: -0.045
09/08/2021: -0.045
12/10/2021: -0.010
03/10/2022: -0.012

VMP-2B Vacuum Readings (in WC):
09/26/2019: -0.065
10/03/2019: -0.062
10/09/2019: -0.055
11/05/2019: -0.018
12/03/2019: -0.032
02/11/2020: -0.040
03/27/2020: -0.040
06/29/2020: -0.064
09/15/2020: -0.040
12/08/2020: -0.020
03/30/2021: -0.045
06/11/2021: -0.051
09/08/2021: -0.058
12/10/2021: -0.400
03/10/2022: -0.032

VMP-3B Vacuum Readings (in WC):
09/26/2019: -0.419
10/03/2019: -0.303
10/09/2019: -0.258
11/05/2019: -0.217
12/03/2019: -0.114
02/11/2020: N/A
03/27/2020: -0.163
06/29/2020: -0.354
09/15/2020: -0.118
12/08/2020: -0.137
03/30/2021: -0.162
06/11/2021: -0.262
09/08/2021: -0.285
12/10/2021: -0.189
03/10/2022: -0.141

VMP-4B Vacuum Readings (in WC):
09/26/2019: N/A
10/03/2019: -0.383
10/09/2019: -0.329
11/05/2019: -0.271
12/03/2019: -0.156
02/11/2020: -0.161
03/27/2020: -0.171
06/29/2020: -0.343
09/15/2020: -0.361
12/08/2020: -0.208
03/30/2021: -0.219
06/11/2021: -0.903
09/08/2021: -1.020
12/10/2021: -0.177
03/10/2022: -0.262

VMP-5B Vacuum Readings (in WC):
09/26/2019: -0.044
10/03/2019: -0.037
10/09/2019: -0.030
11/05/2019: -0.014
12/03/2019: +0.000
02/11/2020: N/A
03/27/2020: +0.000
06/29/2020: -0.026
09/15/2020: -0.045
12/08/2020: +0.000
03/30/2021: +0.000
*04/14/2021: +0.000
*05/20/2021: -0.014
06/11/2021: -0.039
09/08/2021: -0.034
12/10/2021: -0.004
03/10/2022: +0.000

VMP-6B Vacuum Readings (in WC):
09/26/2019: -0.016
10/03/2019: -0.018
10/09/2019: -0.010
11/05/2019: +0.000
12/03/2019: +0.000
02/11/2020: +0.000
03/27/2020: -0.010
06/29/2020: -0.022
09/15/2020: -0.005
12/08/2020: +0.000
03/30/2021: -0.010
06/11/2021: -0.016
09/08/2021: -0.041
12/10/2021: +0.000
*01/11/2022: -0.012
03/10/2022: +0.000

VMP-7B Vacuum Readings (in WC):
09/26/2019: -0.200
10/03/2019: -0.196
10/09/2019: -0.178
11/05/2019: -0.171
12/03/2019: -0.136
02/11/2020: -0.072
03/27/2020: -0.152
06/29/2020: -0.198
09/15/2020: -0.160
12/08/2020: -0.203
03/30/2021: -0.197
06/11/2021: -0.201
09/08/2021: -0.060
12/10/2021: -0.190
03/10/2022: -0.133

ENVIRONMENTAL ADVANTAGE, INC.
Phase I/II Audits – Site Investigations – Facility Inspections

SSDS AREA LOCATIONS
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: MS	SCALE: NOT TO SCALE	PROJECT: 01304
CHECKED BY: CMH	DATE: 03/2022	FIGURE NO: 2B

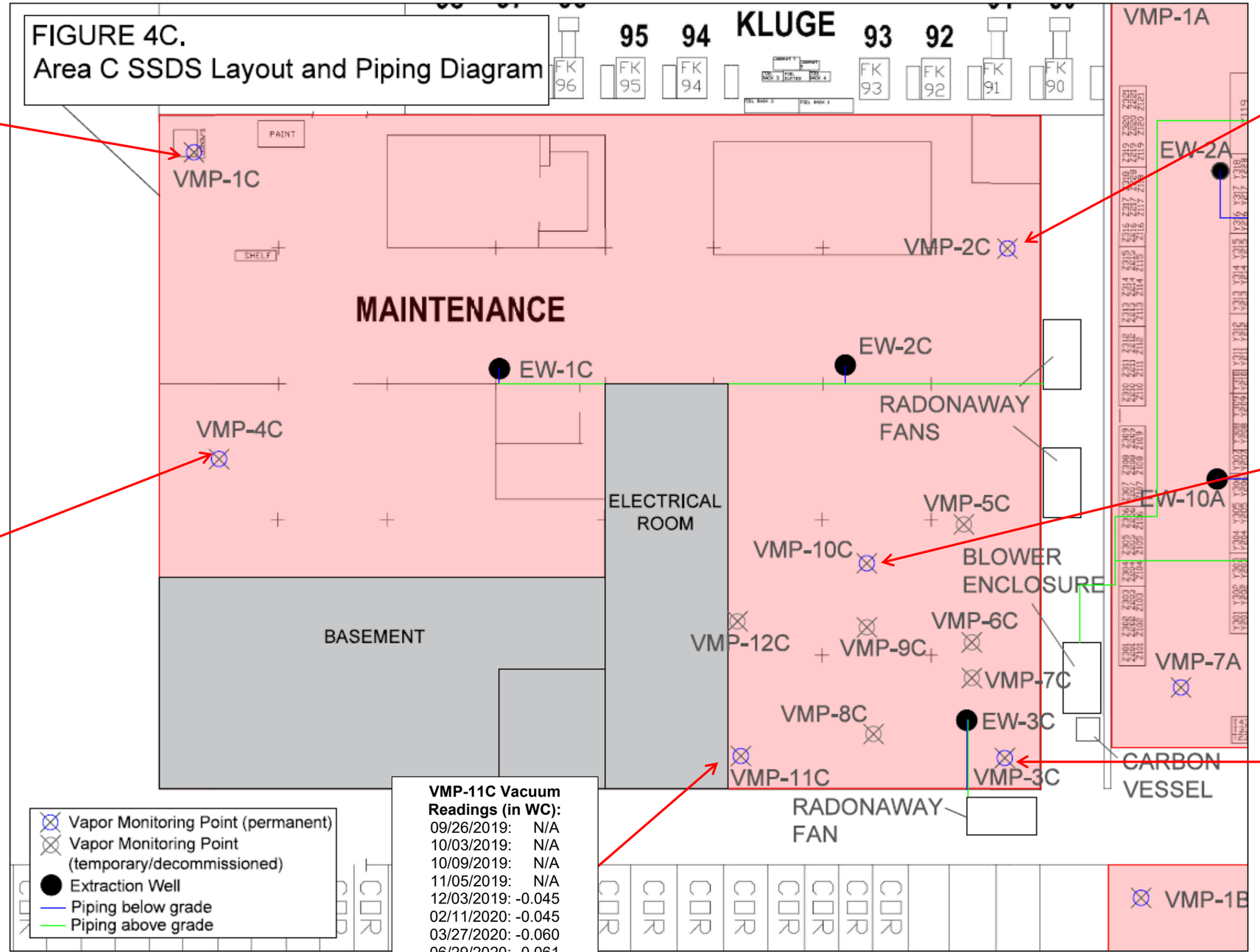
THIS FIGURE WAS ADAPTED FROM SITE MANAGEMENT PLAN PREPARED FOR MOD-PAC CORPORATION (DECEMBER 2019)

N

FIGURE 4C.
Area C SSDS Layout and Piping Diagram

VMP-1C Vacuum Readings (in WC):
09/26/2019: -0.046
10/03/2019: -0.055
10/09/2019: -0.037
11/05/2019: -0.042
12/03/2019: +0.000
02/11/2020: -0.019
03/27/2020: -0.019
06/29/2020: -0.019
09/15/2020: -0.012
12/08/2020: -0.012
03/30/2021: +0.000
06/11/2021: -0.020
09/08/2021: -0.049
12/10/2021: -0.026
*02/02/2022: +0.000
03/10/2022: +0.000

VMP-4C Vacuum Readings (in WC):
09/26/2019: -0.061
10/03/2019: -0.081
10/09/2019: -0.060
11/05/2019: -0.067
12/03/2019: +0.004
02/11/2020: -0.038
03/27/2020: -0.029
06/29/2020: -0.018
09/15/2020: -0.024
12/08/2020: -0.021
03/30/2021: +0.000
06/11/2021: -0.024
09/08/2021: -0.075
12/10/2021: -0.021
03/10/2022: +0.000



VMP-2C Vacuum Readings (in WC):
09/26/2019: -0.085
10/03/2019: -0.092
10/09/2019: -0.075
11/05/2019: -0.067
12/03/2019: -0.027
02/11/2020: -0.026
03/27/2020: -0.033
06/29/2020: -0.050
09/15/2020: -0.040
12/08/2020: -0.038
03/30/2021: -0.022
6/11/2021: -0.054
09/08/2021: -0.042
12/10/2021: -0.040
03/10/2022: -0.031

VMP-10C Vacuum Readings (in WC):
09/26/2019: N/A
10/03/2019: N/A
10/09/2019: N/A
11/05/2019: N/A
12/03/2019: -0.045
02/11/2020: -0.045
03/27/2020: -0.060
06/29/2020: -0.061
09/15/2020: -0.039
12/08/2020: -0.038
03/30/2021: -0.025
06/11/2021: -0.058
09/08/2021: -0.066
12/10/2021: -0.059
03/10/2022: -0.042

VMP-3C Vacuum Readings (in WC):
09/26/2019: +0.000
10/03/2019: +0.000
10/09/2019: +0.000
11/05/2019: +0.000
12/03/2019: -0.026
02/11/2020: -0.032
03/27/2020: -0.038
06/29/2020: -0.040
09/15/2020: -0.038
12/08/2020: -0.026
03/30/2021: -0.037
06/11/2021: -0.039
09/08/2021: -0.040
12/10/2021: -0.038
03/10/2022: -0.038

VMP-11C Vacuum Readings (in WC):
09/26/2019: N/A
10/03/2019: N/A
10/09/2019: N/A
11/05/2019: N/A
12/03/2019: -0.045
02/11/2020: -0.045
03/27/2020: -0.060
06/29/2020: -0.061
09/15/2020: -0.039
12/08/2020: -0.038
03/30/2021: -0.020
06/11/2021: -0.097
09/08/2021: -0.022
12/10/2021: -0.025
03/10/2022: -0.022

Vapor Monitoring Point (permanent)
Vapor Monitoring Point (temporary/decommissioned)
Extraction Well
Piping below grade
Piping above grade

ENVIRONMENTAL ADVANTAGE, INC.
Phase I/II Audits – Site Investigations – Facility Inspections

SSDS AREA LOCATIONS
1801 ELMWOOD AVENUE
BUFFALO, NEW YORK

DRAWN BY: MS	SCALE: NOT TO SCALE	PROJECT: 01304
CHECKED BY: CMH	DATE: 03/2022	FIGURE NO: 2C

ATTACHMENT B

Tables

Table 1
MOD-PAC CORP., 1801 Elmwood Ave, Buffalo, NY
SSDS Post Installation Monitoring Results
Q1 2022 Summary

Area A - Finished Product Storage Area

Date	Extraction Wells (in WC)										Blower (in WC)	Pre-carbon PID Reading (ppm)	Post-carbon PID Reading (ppm)
	EW-1A	EW-2A	EW-3A	EW-4A	EW-5A	EW-6A	EW-7A	EW-8A	EW-9A	EW-10A			
3/10/2022	15.5	16.5	17.0	16.5	16.5	1.0	16.5	17.0	17.0	17.0	12	0.0	0.0

Date	Vapor Monitoring Points (in WC)								
	VMP-1A	VMP-2A	VMP-3A	VMP-4A	VMP-5A	VMP-6A	VMP-7A	VMP-8A	VMP-9A
3/10/2022	-0.045	-0.040	-0.045	-0.080	-0.040	+0.013	-0.010	+0.000	-0.097

Area B - Cold Storage Garage

Date	Extraction Wells (in WC)								Blower (in WC)	System Effluent PID Reading (ppm)
	EW-1B	EW-2B	EW-3B	EW-4B	EW-5B	EW-6B	EW-7B	EW-8B		
3/10/2022	22.0	23.0	23.0	23.5	22.5	23.0	22.5	22.0	20	0.0

Date	Vapor Monitoring Points (in WC)						
	VMP-1B	VMP-2B	VMP-3B	VMP-4B	VMP-5B	VMP-6B	VMP-7B
3/10/2022	-0.012	-0.032	-0.141	-0.262	+0.000	+0.000	-0.133

Area C - Maintenance Area

Date	Extraction Wells (in WC)			System Effluent PID Reading (ppm)		
	EW-1C	EW-2C	EW-3C	EW-1C	EW-2C	EW-3C
3/10/2022	11.0	32.0	31.0	0.0	0.0	0.0

Date	Vapor Monitoring Points (in WC)					
	VMP-1C	VMP-2C	VMP-3C	VMP-4C	VMP-10C	VMP-11C
3/10/2022	+0.000	-0.031	-0.038	+0.000	-0.042	-0.022

Note:
1. in WC = inches water column; ppm = parts per million;

Environmental Advantage

Table 2A
MOD-PAC CORP., 1801 Elmwood Ave, Buffalo, NY
SSDS Post Installation Monitoring Results
Area A - Finished Product Storage Area

Date	Extraction Wells (in WC)										Blower (in WC)	Pre-carbon PID Reading (ppm)	Post-carbon PID Reading (ppm)
	EW-1A	EW-2A	EW-3A	EW-4A	EW-5A	EW-6A	EW-7A	EW-8A	EW-9A	EW-10A			
9/26/2019	14.5	14.5	15.5	14.5	15	1	14.5	15	14.5	15.5	12	3.3	1.5
10/3/2019	14	14	15	14	14	1	14	15	14	15	12	52.6	12.7
10/9/2019	13	13.5	14	13.5	13.5	1	13.5	14	13.5	14.5	13	0.0	0.0
11/5/2019	11.5	12	12.5	11.5	12	1	12	12	11.5	12.5	10	4.7	0.5
12/3/2019	11	11.5	12	11	11.5	1	11.5	11.5	11.5	12	10	1.0	0.1
1/22/2020												0.2	0.0
2/11/2020	10	10.5	11	10.5	11	1	11	11	10.5	11.5	9	0.5	0.0
3/27/2020	10	10	11	10.5	11	1	10.5	10.5	10	11	8	47.8	27.1
6/29/2020	13	13	13.5	13	13	1	13	13	13	13.5	14	0.4	0.4
7/31/2020												0.0	0.0
8/28/2020												0.0	0.0
9/15/2020	13.5	14	14.5	14	14	1	14	14.5	14.5	15	14	2.7	1.1
10/15/2020												7.8	4.6
11/4/2020												0.0	0.0
12/8/2020	12.5	13	13.5	13	13	1	13	14	13	14	12	0.6	0.0
1/4/2021												0.4	0.0
2/18/2021												1.0	0.0
3/30/2021	13	14	14	14	14	0	14	14	14	15	12	0.0	0.0
4/14/2021												0.4	0.0
5/20/2021												0.4	0.0
6/11/2021	16	16	16	16	16	0	16	17	17	17	15	0.1	0.0
7/1/2021											16	0.0	0.0
8/25/2021											18	0.0	0.0
9/8/2021	17	17	18	18	17	0	18	18	18	18	16	0.3	0.0
10/20/2021												0.0	0.0
11/19/2021												0.0	0.0
12/10/2021	16	16	17	16	17	0	17	17	17	17	15	7.6	0.0
1/11/2022											19	0.0	0.0
2/2/2022												0.08	0.0
3/10/2022	15.5	16.5	17	16.5	16.5	1	16.5	17	17	17	12	0.0	0.0

Date	Vapor Monitoring Points (in WC)								
	VMP-1A	VMP-2A	VMP-3A	VMP-4A	VMP-5A	VMP-6A	VMP-7A	VMP-8A	VMP-9A
9/26/2019	- 0.066	- 0.044	- 0.075	- 0.161	- 0.128	+ 0.000	- 0.025	- 0.021	- 0.173
10/3/2019	- 0.065	- 0.037	- 0.053	- 0.139	- 0.116	+ 0.000	- 0.019	- 0.017	- 0.105
10/9/2019	- 0.061	- 0.034	- 0.045	- 0.110	- 0.103	+ 0.000	- 0.020	- 0.015	- 0.100
11/5/2019	- 0.041	- 0.029	- 0.023	- 0.067	- 0.062	+ 0.010	- 0.013	+ 0.000	- 0.067
12/3/2019	- 0.045	- 0.025	- 0.031	- 0.066	- 0.056	+ 0.020	- 0.010	+ 0.000	- 0.054
2/11/2020	- 0.037	- 0.020	- 0.015	- 0.045	- 0.036	+ 0.015	+ 0.000	+ 0.000	- 0.037
3/27/2020	- 0.025	- 0.023	- 0.016	- 0.032	- 0.032	+ 0.010	+ 0.000	+ 0.000	- 0.022
6/29/2020	- 0.053	- 0.064	- 0.063	- 0.124	- 0.080	Removed	- 0.010	- 0.017	- 0.094
9/15/2020	- 0.053	- 0.052	- 0.043	- 0.093	- 0.033	Removed	- 0.017	- 0.014	- 0.058
12/8/2020	-0.048	-0.033	-0.026	-0.152	-0.05	Removed	+0.000	+0.000	-0.065
3/30/2021	-0.038	-0.052	-0.032	-0.063	-0.022	Removed	-0.020	-0.014	-0.047
6/11/2021	-0.073	-0.065	-0.055	-0.105	-0.074	Removed	-0.026	-0.022	-0.074
9/8/2021	-0.091	-0.088	-0.075	-0.140	-0.086	Removed	-0.028	-0.190	-0.149
12/10/2021	-0.065	-0.056	-0.043	-0.068	-0.052	Removed	-0.017	-0.005	-0.088
3/10/2022	-0.045	-0.04	-0.045	-0.080	-0.04	+0.013	-0.010	+0.000	-0.097

Note:
1. Yellow shading indicates that samples did not meet the minimum 0.002 inches WC
2. Blank space indicates that data was not collected
3. in WC = inches water column; ppm = parts per million;

Environmental Advantage

Table 2B
MOD-PAC CORP., 1801 Elmwood Ave, Buffalo, NY
SSDS Post Installation Monitoring Results
Area B - Cold Storage Garage

Date	Extraction Wells (in WC)								Blower (in WC)	System Effluent PID Reading (ppm)
	EW-1B	EW-2B	EW-3B	EW-4B	EW-5B	EW-6B	EW-7B	EW-8B		
9/26/2019	13	13.5	13.5	14.5	13.5	14	13	12	10.5	1.3
10/3/2019	13	13.5	13.5	14	13.5	14	13	12	10	1.4
10/9/2019	12.5	13	13	13.5	13	13.5	12	12	10	0.0
11/5/2019	12	13	12.5	13	12.5	13	11.5	11	9	0.5
12/3/2019	11	11	11	11.5	11	11.5	10.5	10	8	0.1
1/22/2020										0.0
2/11/2020	12.5	13	13	13.5	13	13.5	12	11.5	9	0.0
3/27/2020	14	15	14	15	15	15	14	13.5	10	0.0
6/29/2020	16	12	17	12.5	17	17	16	15.5	16	0.0
7/31/2020										0.0
8/28/2020										0.0
9/15/2020	17	18	17	18	18	18	17	16.5	16	2.7
10/15/2020										0.3
11/4/2020										0.0
12/8/2020	16.5	17	17	17	17	17	16.5	16	13	0.4
1/4/2021										0.0
2/18/2021										0.0
3/30/2021	16	17	17	17	17	17	16	16	12	0.0
4/14/2021										0.0
5/20/2021										0.1
6/11/2021	18	18	19	20	19	19	18	18	18	0.0
7/1/2021									18	0.0
8/25/2021									20	0.0
9/8/2021	20	21	22	23	22	22	21	21	19	0.0
10/20/2021										0.0
11/19/2021										0.0
12/10/2021	20	20	21	21	21	21	20	20	16	0.0
1/11/2022									19	0.0
2/2/2022										0.0
3/10/2022	22	23	23	23.5	22.5	23	22.5	22	20	0.0

Date	Vapor Monitoring Points (in WC)						
	VMP-1B	VMP-2B	VMP-3B	VMP-4B	VMP-5B	VMP-6B	VMP-7B
9/26/2019	N/A	- 0.065	- 0.419	N/A	- 0.044	- 0.016	- 0.200
10/3/2019	- 0.023	- 0.062	- 0.303	- 0.383	- 0.037	- 0.018	- 0.196
10/9/2019	- 0.018	- 0.055	- 0.258	- 0.329	- 0.030	- 0.010	- 0.178
11/5/2019	- 0.016	- 0.018	- 0.217	- 0.271	- 0.014	+ 0.000	- 0.171
12/3/2019	- 0.014	- 0.032	- 0.114	- 0.156	+ 0.000	+ 0.000	- 0.136
2/11/2020	+ 0.000	- 0.040	N/A	- 0.161	N/A	+ 0.000	- 0.072
3/27/2020	+ 0.000	- 0.040	- 0.163	- 0.171	+ 0.000	- 0.010	- 0.152
6/29/2020	- 0.018	- 0.064	- 0.354	- 0.343	- 0.026	- 0.022	- 0.0198
9/15/2020	- 0.017	- 0.041	- 0.118	- 0.361	- 0.045	- 0.005	- 0.160
12/8/2020	+0.000	-0.02	-0.137	-0.208	+0.000	+0.000	-0.203
3/30/2021	- 0.010	- 0.045	- 0.162	- 0.219	+0.000	- 0.010	- 0.197
4/14/2021	NG	NG	NG	NG	+0.000	NG	NG
5/20/2021	NG	NG	NG	NG	-0.014	NG	NG
6/11/2021	-0.045	-0.051	-0.262	-0.903	-0.039	-0.016	-0.201
9/8/2021	-0.045	-0.058	-0.285	-1.020	-0.034	-0.041	-0.060
12/10/2021	-0.010	-0.40	-0.189	-0.177	-0.004	+0.000	-0.190
1/11/2022	NG	NG	NG	NG	NG	-0.012	NG
3/10/2022	-0.012	-0.032	-0.141	-0.262	+0.000	+0.000	-0.133

Note:
1. Yellow shading indicates that samples did not meet the minimum 0.002 inches WC
2. N/A indicates the VMP was not accessible during the time of the system check
3. Blank space indicates that data was not collected
4. in WC = inches water column; ppm = parts per million;
5. NG = Not Gauged

Environmental Advantage

Table 2C
MOD-PAC CORP., 1801 Elmwood Ave, Buffalo, NY
SSDS Post Installation Monitoring Results
Area C - Maintenance Area

Date	Extraction Wells (in WC)			Fan System Effluent PID Reading (ppm)		
	EW-1C	EW-2C	EW-3C	EW-1C	EW-2C	EW-3C
9/26/2019	43	40		1.4	0.7	
10/3/2019	44	45		1.0	4.5	
10/9/2019	44.5	45.5		0.0	0.0	
11/5/2019	44	46		0.0	0.4	
12/3/2019		39	28		1.2	0.4
1/22/2020					0.4	0.0
2/11/2020	31	30	27.5	0.2	0.0	0.0
3/27/2020	29	32	28	0.0	0.0	0.0
6/29/2020	27	31	29	0.0	0.0	0.0
7/31/2020				0.0	0.0	0.0
8/28/2020				0.0	0.0	0.0
9/15/2020	28.5	31	29	0.0	0.0	0.0
10/15/2020				0.0	0.0	0.0
11/4/2020				0.0	0.0	0.0
12/8/2020	31	31	29	0.0	0.0	0.0
1/4/2021				0.0	0.0	0.0
2/18/2021						0.0
3/30/2021		32	30		0.0	0.0
4/14/2021					0.1	0.0
5/20/2021				0.0	0.0	0.0
6/11/2021	23	31	30	0.0	0.0	0.0
7/1/2021				0.0	0.0	0.0
8/25/2021				0.0	0.0	0.0
9/8/2021	29	31	30	0.0	0.0	0.0
10/20/2021				0.0	0.0	0.0
11/19/2021				0.0	0.0	0.0
12/10/2021	30	32	30	4.7	0.0	0.0
1/11/2022				0.0	0.0	0.0
2/2/2022				0.0	0.0	0.0
3/10/2022	11	32	31	0.0	0.0	0.0

Date	Vapor Monitoring Points (in WC)					
	VMP-1C	VMP-2C	VMP-3C	VMP-4C	VMP-10C	VMP-11C
9/26/2019	- 0.046	- 0.085	+ 0.000	- 0.061		
10/3/2019	- 0.055	- 0.092	+ 0.000	- 0.081		
10/9/2019	- 0.037	- 0.075	+ 0.000	- 0.060		
11/5/2019	- 0.042	- 0.067	+ 0.000	- 0.067		
12/3/2019	+ 0.000	- 0.027	- 0.026	+ 0.004	- 0.045	- 0.018
2/11/2020	- 0.019	- 0.026	- 0.032	- 0.038	- 0.045	- 0.020
3/27/2020	- 0.019	- 0.033	- 0.038	- 0.029	- 0.060	- 0.021
6/29/2020	- 0.019	- 0.050	- 0.040	- 0.018	- 0.061	- 0.044
9/15/2020	- 0.012	- 0.040	- 0.038	- 0.024	- 0.039	- 0.017
12/8/2020	-0.012	-0.038	-0.026	-0.021	-0.038	-0.016
3/30/2021	+ 0.000	- 0.022	- 0.037	+ 0.000	- 0.025	- 0.020
6/11/2021	-0.020	-0.054	-0.039	-0.024	-0.058	-0.097
9/8/2021	-0.049	-0.042	-0.040	-0.075	-0.066	-0.022
12/10/2021	-0.026	-0.040	-0.038	-0.021	-0.059	-0.025
2/2/2022	+0.000	-0.028	-0.038	-0.012	-0.034	-0.019
3/10/2022	+0.000	-0.031	-0.038	+0.000	-0.042	-0.022

Note:
1. Yellow shading indicates that samples did not meet the minimum 0.002 inches WC
2. Blank space indicates that data was not collected
3. in WC = inches water column; ppm = parts per million;
4. Please note that a blower is not included within the extraction system of Area C and that the extraction system is operated by fans.

Environmental Advantage

Table 3
MOD-PAC, Corp. 1801 Elmwood Avenue, Buffalo, NY
Summary of Air Analytical Testing Results

Parameter	March 2022 - L2212728	
	AREA A-PRE (031022)	AREA A-POST (031022)
Volatile Organic Compounds (ug/m^3)		
1,1,1-Trichloroethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,1,2-Trichloroethane	ND	ND
1,1-Dichloroethane	ND	ND
1,1-Dichloroethene	ND	ND
1,2,4-Trichlorobenzene	ND	ND
1,2,4-Trimethylbenzene	**7.28**	**4.56**
1,2-Dibromoethane	ND	ND
1,2-Dichlorobenzene	ND	ND
1,2-Dichloroethane	ND	ND
1,2-Dichloropropane	ND	ND
1,3,5-Trimethylbenzene	**2.36**	**1.43**
1,3-Butadiene	ND	ND
1,3-Dichlorobenzene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,4-Dioxane	ND	ND
2,2,4-Trimethylpentane	ND	ND
2-Butanone	**1.8**	ND
2-Hexanone	ND	ND
3-Chloropropene	ND	ND
4-Ethyltoluene	ND	ND
4-Methyl-2-pentanone	ND	ND
Acetone	**134**	**10.6**
Benzene	ND	ND
Benzyl chloride	ND	ND
Bromodichloromethane	ND	ND
Bromoform	ND	**2.17**
Bromomethane	ND	**1.29**
Carbon disulfide	**1.3**	**0.956**
Carbon tetrachloride	ND	ND
Chlorobenzene	ND	ND
Chloroethane	ND	ND
Chloroform	**40.5**	**0.986**
Chloromethane	**0.62**	**1.01**
cis-1,2-Dichloroethene	**3.26**	ND
cis-1,3-Dichloropropene	ND	ND
Cyclohexane	ND	ND
Dibromochloromethane	ND	ND
Dichlorodifluoromethane	**2.35**	**2.39**
Ethyl Alcohol	**129**	ND
Ethyl Acetate	ND	ND
Ethylbenzene	**3.61**	ND
Freon-113	ND	ND
Freon-114	ND	ND
Heptane	**13.2**	ND
Hexachlorobutadiene	ND	ND
iso-Propyl Alcohol	**283**	**3.22**
Methyl tert butyl ether	ND	ND
Methylene chloride	**1.75**	ND
n-Hexane	**7.68**	ND
o-Xylene	**4.47**	**1.9**
p/m-Xylene	**13.9**	**4.6**
Styrene	ND	ND
tert-Butyl Alcohol	**13.5**	ND
Tetrachloroethene	**1.75**	ND
Tetrahydrofuran	ND	ND
Toluene	**14.5**	**2.81**
trans-1,2-Dichloroethene	ND	ND
trans-1,3-Dichloropropene	ND	ND
Trichloroethene	**224**	**7.95**
Trichlorofluoromethane	**1.4**	ND
Vinyl bromide	ND	ND
Vinyl chloride	ND	ND

Notes:
1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report in the Appendix.
2. Analytical testing for VOCs via TO-15 completed by Alpha Analytical.
3. Results present in ug/m^3 or microgram per cubic meter.
4. Parameters shaded in red indicate analytes of concern (Target cVOCs)
5. Results in red indicate higher post-carbon readings over pre-carbon readings
6. Blank results = No Value Above Detection Limit

Environmental Advantage

Table 4
MOD-PAC, Corp. 1801 Elmwood Avenue, Buffalo, NY
Summary of Air Analytical Testing Results

Parameter	October 2019 - L1946093			November 2019 - L1952487			December 2019 - L1957660			February 2020 - L2006152			June 2020 - L2027736		September 2020 - L2038512		09/23/2020 CARBON CHANGEOUT	December 2020 - L2054640		March 2021 - L2115934		June 2021 - L2131935		September 2021 - L2148116		12/10/2021 CARBON CHANGEOUT	December 2021 - L2168195		March 2022- L2212728	
	AREA A - PRE	AREA A- POST	AREA B	AREA A- PRE (110519)	AREA A- POST (110519)	AREA-B (110519)	AREA A- PRE (120319)	AREA A- POST (120319)	AREA B (120319)	AREA A- PRE (021120)	AREA A- POST (021120)	AREA B (120319)	AREA A- PRE (063020)	AREA A- POST (063020)	AREA A- PRE (091520)	AREA A- POST (091520)		AREA A- PRE (120820)	AREA A- POST (120820)	AREA A- PRE (033021)	AREA A- POST (033021)	AREA A- PRE (061121)	AREA A- POST (061121)	AREA A- PRE (090821)	AREA A- POST (090821)		AREA A- PRE (121021)	AREA A- POST (121021)	AREA A- PRE (031022)	AREA A- POST (031022)
Volatile Organics in Air (ug/m³)																														
1,1,1-Trichloroethane	1.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1-Dichloroethene	94.8	ND	4.52	35.5	ND	ND	41.6	5.55	0.979	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2,4-Trimethylbenzene	2.5	ND	ND	ND	ND	ND	ND	ND	ND	48.5	30.2	56	21.8	21.5	64.4	63.4		29.7	23.7	34.4	28.8	46.1	38.9	42.4	53.1		59	49.2	7.28	4.56
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,3,5-Trimethylbenzene	1	ND	ND	ND	ND	ND	ND	ND	ND	7.87	4.7	10.2	5.7	4.75	14.5	17.2		8.95	6.44	12.4	9.54	14.2	11.2	10.2	13.6		21.3	17.2	2.36	1.43
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.976	2.98	ND	ND	3.13	ND		ND	ND	ND	ND	3.14	ND	ND	1.37		1.37	ND	ND	ND
2-Butanone	9.88	ND	3.07	4.13	ND	ND	5.28	ND	ND	4.04	ND	ND	6.25	2.45	ND	ND		2.16	ND	2.98	ND	3.89	ND	2.53	ND		2.78	1.68	1.8	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
3-Chloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
4-Ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	9.49	21.8	4.22	3.87	12.4	10.9		3.95	2.79	6.1	4.46	10.7	8.26	6	8.26		30	21.6	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	9.71	ND	4.47	ND	ND	3.53		ND	ND	ND	ND
Acetone	59.4	10.5	22.7	49.9	ND	69.8	75.5	4.44	13.3	87.4	ND	53.4	100	10.6	26.6	9.95		195	12.3	73.6	12.5	73.6	20.7	38.2	40.4		108	29.2	134	10.6
Benzene	0.891	ND	ND	ND	ND	ND	ND	ND	ND	5.34	2.5	10.4	ND	0.987	4.79	2.43		1.42	0.69	2.25	1.03	10.7	4.98	2.75	5.46		2.58	1.04	ND	ND
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	9.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	2.17
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	1.29
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	0.835	ND	ND	21.5	ND	5.82	6.42	4.42	2.21		1.45	0.931	2.42	0.944	7.41	2.68	3.83	12.5		4.61	2.56	1.3	0.956
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Chloroform	14.4	ND	ND	9.86	ND	ND	20.3	1.69	ND	17	1.51	ND	16.7	31.8	20.7	17.5		27.1	1.35	38.4	12.6	46.7	59.6	31.5	42.7		26.2	1.2	40.5	0.986
Chloromethane	0.591	0.745	ND	ND	ND	ND	ND	0.603	0.785	ND	0.446	1.21	ND	0.77	ND	0.438		0.626	0.630	0.648	0.766	ND	0.558	ND	0.564		0.605	0.465	0.62	1.01
cis-1,2-Dichloroethene	88.8	ND	ND	33.5	ND	ND	41.6	5.55	0.979	22.5	12.5	ND	26.1	63	19.2	21.7		15.1	ND	11.2	11.3	11.7	29.1	10.1	13.7		3.87	ND	3.26	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Cyclohexane	4.23	ND	ND	2	ND	2.52	ND	ND	ND	1.61	ND	0.847	ND	ND	2.54	0.823		2.1	ND	1.41	ND	2.42	ND	ND	1.29		1.61	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Dichlorodifluoromethane	1.99	1.78	1.98	2.13	ND	ND	ND	2.1	2.93	ND	1.47	1.99	ND	2.15	ND	1.61		2.41	2.38	1.95	2.04	2.06	1.87	2.64	2.14		2.1	ND	2.35	2.39
Ethyl Alcohol	14.3	23.4	16	22.2	ND	61.6	43.5	34.5	10.3	63.7	40.9	30.1	143	112	106	81.8		91	57.1	71.6	86.7	87.8	61.6	49.7	64.1		79	23.2	129	ND
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	3.27	3.13	4.4	4.14	ND	ND		3.41	2.5	ND	ND
Ethylbenzene	1.58	ND	0.973	2.32	ND	ND	3.54	ND	ND	37.6	20	60.4	6.65	5.13	17.9	13.6		16.8	5.08	15.9	6.91	19.1	11.5	9.64	16.8		7.12	4.17	3.61	ND
Freon-113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Freon-114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Heptane	14.3	ND	2.35	9.51	ND	6.27	18.2	ND	1.25	16.6	1.01	14.1	5.7	1.25	6.31	1.31		24.9	ND	7.38	0.836	6.64	1.94	1.98	3.74		7.09	ND	13.2	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
iso-Propyl Alcohol	44	48.2	28	103	ND	742	275	1.96	7.03	157	9.44	44.2	191	472	83.8	34.4		371	32.9	253	164	95.9	533	38.8	95.9		256	16.1	283	3.22
Methyl tert butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Methylene chloride	9.21	13.2	9.87	3.68	5.45	5.35	ND	4.45	3.61	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	1.79	ND	ND	6.62	ND		ND	ND	1.75	ND
n-Hexane	6.06	5.08	1.72	5.22	1.89	3.98	28.2	1.2	1.54	20.7	0.948	6.1	12.2	2.59	29.3	3.67		18.1	2.31	33.7	5.15	73.7	14.9	4.12	61.3		17.9	2.07	7.68	ND
o-Xylene	1.55	ND	1.64	2.35	ND	2.81	3.14	ND	ND	46.5	26.9	64.7	12.1	10.2	33.1	26.6		25.5	10.5	28.9	14.9	30.9	20.4	20.1	31.3		13.1	8.3	4.47	1.9
p/m-Xylene	5.3	ND	4.34	8.08	ND	9.6	11.7	ND	2.07	138	77.7	181	28.1	23	83.4	65.6		69.9	25.4	71.2	33.9	89	57.8	48.6	79.1		33.2	19.8	13.9	4.6
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.78	ND	0.873	3.17	ND	ND	0.856		2.14	ND	ND	ND	1.9	1.14	1.29	1.23		ND	ND	ND	ND
tert-Butyl Alcohol	ND	ND	ND	3.64	ND	5.67	7.31	ND	ND	7.64	ND	1.7	11.9	ND	ND	ND		9.31	ND	5.15	ND	3.58	ND	2.26	8.94		11	1.73	13.5	ND
Tetrachloroethene	2.12	ND	77.3	ND	ND	31.4	ND	1.97	12.4	ND	ND	10.6	5.78	5.8	4.95	2.3		1.69	ND	4.12	ND	2.63	ND	2.28	ND		ND	ND	1.75	ND
Tetrahydrofuran	47.2	ND	9.53	12.1	ND	4.98	13	7.73	ND	5.84	4.72	2.01	5.43	106	ND	6.55		1.55	ND	ND	ND	ND	2.43	2.14	3.19		ND	ND	ND	ND
Toluene	1.89	ND	1.55	6.1	ND	8.55	12.7	ND	2.07	131	66.3	168	23.2	15.8	65.6	45.2		31.3	11.5	39.2	20.1	93.5	52	36.6	62.2		37.7	20.4	14.5	2.81
trans-1,2-Dichloroethene	6.03	ND	ND	2	ND	ND	ND	ND	ND	ND	3.33	ND	ND	2.67	ND	1.12		0.852	ND	ND	1.03	ND	1.72	ND	0.841		ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Trichloroethene	2630	ND	554	978	ND	236	1030	2.48	104	656	10.8	79.5	983	17.2	736	133		508	19.3	378	22	469	29.3	559	1.27		259	16	224	7.95
Trichlorofluoromethane	1.48	3.62	2.69	ND	2.67	ND	ND	3.47	1.42	ND	1.78	1.37	10.2	10.7	3.36	4.40		1.4	2.51	1.69	1.79	3.53	3.47	6.07	4.08		1.78	ND	1.4	ND
Vinyl bromide	ND	ND	ND	1.78	ND	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	1.04	ND	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Total Target cVOCs	2,826.04	13.20	NC	1,051.72	5.45	NC	1,113.20	20.00	NC	678.50	23.30	NC	1,014.88	86.00	760.15	157.00		524.79	19.30	393.32	35.09	483.33	58.40	578.00	14.97		262.87	16.00	230.76	7.95
Percent Decrease of CVOCs Pre to Post Carbon (%)	-99.53		NC	-99.48		NC	-98.20		NC	-96.57		NC	-91.53		-79.35			-96.32		-91.08		-87.92		-97.41			-93.91		-96.55	
Percent Decrease of CVOCs From Baseline (10/2019 Pre)	NA		NC	-62.78		NC	-60.61		NC	-75.99		NC	-64.09		-73.10			-81.43		-86.08		-82.90		-79.55			-90.70		-91.83	

Notes:
1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report in appendix.
2. Analytical testing for VOCs via TO-15 completed by Alpha Analytical.
3. Results present in ug/m³ or microgram per cubic meter.
4. Samples were collected during a 8-hour sample duration.
5. Parameters shaded in red indicate analytes of concern (Target cVOCs). NYSDOH Target cVOCs are included in this calculation, specifically those listed in the NYSDOH "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York", May 2017 Update. Specifically: 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, cis-1,2-Dichloroethene, Methylene chloride, Tetrachloroethene, Trichloroethene, and Vinyl chloride
6. Results in red indicate post carbon result higher than pre carbon result.
7. ND = No Value Above Detection Limit (Non-detect); NC = Not Calculated
8. In some instances where the pre-sample is ND and the post sample presents a reportable value, the ND pre-sample may be due to sample dilution. Refer to analytical reports for dilution factors.

Environmental Advantage

Table 5
Historical Groundwater Monitoring Data Summary
MOD-PAC CORP.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Trichloroethene (µg/L)	% Increase/ Decrease TCE
					NY-TOGS-GA (5 µg/L)	
MW - 3	2/5/18	600.71	5.05	595.66	**280**	Baseline
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019					
	7/16/19	600.71	NG	NG	ND	-100.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019					
	10/24/19	600.71	NG	NG	**220**	-21.43
	4/15/20	600.71	5.54	595.17	**370**	**32.14**
	3/10/21	600.71	6.10	594.61	NT	N/A
	3/30/21	600.71	5.95	594.76	NT	N/A
	4/14/21	600.71	5.98	594.73	**340**	**21.43**
	5/20/21	600.71	6.10	594.61	NT	N/A
	6/11/21	600.71	6.12	594.59	NT	N/A
	7/1/21	600.71	6.30	594.41	**400**	**42.86**
	8/25/21	600.71	5.80	594.91	NT	N/A
	9/22/21	600.71	5.45	595.26	NT	N/A
	11/19/21	600.71	5.30	595.41	**340**	**21.43**
	12/10/21	600.71	5.55	595.16	NT	N/A
	1/12/22	600.71	5.70	595.01	**190**	-32.14
	2/2/22	600.71	6.09	594.62	NT	N/A
	3/10/22	600.71	6.44	594.27	NT	N/A
MW - 11	2/5/18	600.41	4.66	595.75	**40**	Baseline
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019					
	7/16/19	600.41	NG	NG	**20**	-50.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019					
	10/24/19	600.41	NG	NG	**16**	-60.00
	4/15/20	600.41	5.27	595.14	**45**	**12.50**
	3/10/21	600.41	5.82	594.59	NT	N/A
	3/30/21	600.41	5.74	594.67	NT	N/A
	4/14/21	600.41	5.74	594.67	**16**	-60.00
	5/20/21	600.41	5.84	594.57	NT	N/A
	6/11/21	600.41	5.85	594.56	NT	N/A
	7/1/21	600.41	6.00	594.41	**47**	**17.50**
	8/25/21	600.41	5.58	594.83	NT	N/A
	9/22/21	600.41	5.32	595.09	NT	N/A
	11/19/21	600.41	5.15	595.26	**32**	-20.00
	12/10/21	600.41	5.35	595.06	NT	N/A
	1/12/22	600.41	5.45	594.96	**22**	-45.00
	2/2/22	600.41	5.80	594.61	NT	N/A
	3/10/22	600.41	5.21	595.20	NT	N/A
MW - 12	2/5/18	600.50	4.52	595.98	**0.44**	Baseline
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019					
	7/16/19	600.50	NG	NG	**ND**	-100.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019					
	10/24/19	600.50	NG	NG	**ND**	-100.00
	4/15/20	600.50	4.41	596.09	**ND**	-100.00
	3/10/21	600.50	5.03	595.47	NT	N/A
	3/30/21	600.50	4.86	595.64	NT	N/A
	4/14/21	600.50	4.86	595.64	**ND**	-100.00
	5/20/21	600.50	5.05	595.45	NT	N/A
	6/11/21	600.50	5.10	595.40	NT	N/A
	7/1/21	600.50	5.35	595.15	**ND**	-100.00
	8/25/21	600.50	4.80	595.70	NT	N/A
	9/22/21	600.50	4.40	596.10	NT	N/A
	11/19/21	600.50	4.10	596.40	**ND**	-100.00
	12/10/21	600.50	4.35	596.15	NT	N/A
	1/12/22	600.50	4.58	595.92	**ND**	-100.00
	2/2/22	600.50	5.20	595.30	NT	N/A
	3/10/22	600.50	4.30	596.20	NT	N/A
MW - 13	2/5/18	600.31	4.44	595.87	**160**	Baseline
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019					
	7/16/19	600.31	NG	NG	**78**	-51.25
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019					
	10/24/19	600.31	NG	NG	**240**	**50.00**
	4/15/20	600.31	3.70	596.61	**140**	-12.50
	3/10/21	600.31	4.25	596.06	NT	N/A
	3/30/21	600.31	4.10	596.21	NT	N/A
	4/14/21	600.31	4.13	596.18	**95**	-40.63
	5/20/21	600.31	4.32	595.99	NT	N/A
	6/11/21	600.31	4.40	595.91	NT	N/A
	7/1/21	600.31	4.60	595.71	**150**	-6.25
	8/25/21	600.31	4.10	596.21	NT	N/A
	9/22/21	600.31	3.35	596.96	NT	N/A
	11/19/21	600.31	3.30	597.01	**73**	-54.38
	12/10/21	600.31	3.50	596.81	NT	N/A
	1/12/22	600.31	3.85	596.46	**74**	-53.75
	2/2/22	600.31	4.30	596.01	NT	N/A
	3/10/22	600.31	4.46	595.85	NT	N/A
MW - 14	3/10/21		6.76	-6.76	NT	N/A
	3/30/21		6.72	-6.72	NT	N/A
	4/14/21		6.73	-6.73	NT	N/A
	5/20/21		6.75	-6.75	NT	N/A
	6/11/21		6.80	-6.80	NT	N/A
	7/1/21		6.95	-6.95	NT	N/A
	8/25/21		6.50	-6.50	NT	N/A
	9/22/21		6.15	-6.15	NT	N/A
	11/19/21		6.10	-6.10	NT	N/A
	12/10/21		6.30	-6.30	NT	N/A
	1/12/22		6.40	-6.40	NT	N/A
	2/2/22		6.74	-6.74	NT	N/A
	3/10/22		7.36	-7.36	NT	N/A
MW - 15	3/10/21		5.42	-5.42	NT	N/A
	3/30/21		5.32	-5.32	NT	N/A
	4/14/21		5.34	-5.34	NT	N/A
	5/20/21		5.40	-5.40	NT	N/A
	6/11/21		5.60	-5.60	NT	N/A
	7/1/21		5.60	-5.60	NT	N/A
	8/25/21		5.18	-5.18	NT	N/A
	9/22/21		3.85	-3.85	NT	N/A
	11/19/21		4.80	-4.80	NT	N/A
	12/10/21		4.90	-4.90	NT	N/A
	1/12/22		5.05	-5.05	NT	N/A
	2/2/22		6.02	-6.02	NT	N/A
	3/10/22		4.90	-4.90	NT	N/A

Notes:

1. NG = Not Gauged; ND = Non-Detect; NT = Not tested; N/A = Not Applicable
2. Water Levels measured from top of riser
3. Blue Shading = Result exceeds NY-TOGS-GA for TCE
4. **RED BOLDED** = Percent increase of TCE from Baseline

Environmental Advantage

Table 6
Historical Groundwater Monitoring and Sampling Data Summary
MOD-PAC CORP.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	1,1-Dichloroethene (µg/L)	2-Butanone (µg/L)	Acetone (µg/L)	Benzene (µg/L)	cis-1,2-Dichloroethene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Vinyl chloride (µg/L)	Total VOCs (µg/L)	% Increase/ Decrease TCE
	NY-TOGS-GA (µg/L)				5	50	50	1	5	5	5	2		
MW - 3	2/5/18	600.71	5.05	595.66	ND	ND	ND	ND	**80**	**14**	**280**	**13**	**387.0**	**Baseline**
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019													
	7/16/19	600.71	NG	NG	ND	ND	38	ND	ND	ND	ND	ND	**38.0**	-100.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019													
	10/24/19	600.71	NG	NG	ND	ND	ND	ND	**30**	**3**	**220**	ND	**253.0**	-21.43
	4/15/20	600.71	5.54	595.17	ND	ND	**6.40**	ND	**57**	**7.3**	**370**	**3.7**	**444.4**	**32.14**
	4/14/21	600.71	5.98	594.73	**0.88**	ND	ND	ND	**82**	**8.8**	**340**	**5.6**	**440.5**	**21.43**
	7/1/21	600.71	6.30	594.41	**2.0**	ND	ND	**0.41**	**140**	**16**	**400**	**8.1**	**566.5**	**42.86**
	11/19/21	600.71	5.30	595.41	**0.77**	ND	ND	ND	**43**	**4**	**340**	**2.9**	**390.7**	**21.43**
	1/12/22	600.71	5.70	595.01	**0.86**	ND	ND	**0.16**	**57**	**3.3**	**190**	**3.5**	**254.8**	-32.14
MW - 11	2/5/18	600.41	4.66	595.75	ND	ND	9.4	ND	**3.1**	**2.9**	**40**	**5.6**	**61.0**	**Baseline**
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019													
	7/16/19	600.41	NG	NG	ND	ND	4.5	ND	**14**	**25**	**20**	**9.8**	**73.3**	-50.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019													
	10/24/19	600.41	NG	NG	ND	**150**	**920**	ND	ND	ND	**16**	ND	**1086.0**	-60.00
	4/15/20	600.41	5.27	595.14	ND	**2.2**	**11**	**0.21**	**7**	**10**	**45**	**9**	**84.4**	**12.50**
	4/14/21	600.41	5.74	594.67	ND	ND	ND	ND	**8**	**9.4**	**16**	**5.7**	**39.1**	-60.00
	7/1/21	600.41	6.00	594.41	**0.35**	ND	ND	**0.25**	**13**	**17**	**47**	**10**	**87.6**	**17.50**
	11/19/21	600.41	5.15	595.26	**0.27**	ND	ND	**0.25**	**17**	**30**	**32**	**7.8**	**87.3**	-20.00
	1/12/22	600.41	5.45	594.96	**0.31**	ND	ND	**0.20**	**11**	**19**	**22**	**6.2**	**58.7**	-45.00
MW - 12	2/5/18	600.50	4.52	595.98	ND	ND	2.2	ND	ND	ND	0.44	ND	**2.64**	**Baseline**
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019													
	7/16/19	600.50	NG	NG	ND	ND	3	ND	ND	ND	ND	ND	**3.0**	-100.00
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019													
	10/24/19	600.50	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100.00
	4/15/20	600.50	4.41	596.09	ND	ND	11	ND	ND	ND	ND	ND	**11.0**	-100.00
	4/14/21	600.50	4.86	595.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100.00
	7/1/21	600.50	5.35	595.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100.00
	11/19/21	600.50	4.10	596.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100.00
	1/12/22	600.50	4.58	595.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100.00
MW - 13	2/5/18	600.31	4.44	595.87	ND	ND	ND	ND	**180**	4.1	**160**	**25**	**369.1**	**Baseline**
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019													
	7/16/19	600.31	NG	NG	ND	ND	ND	ND	**400**	3.9	**78**	**56**	**537.9**	-51.25
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019													
	10/24/19	600.31	NG	NG	ND	ND	**28**	ND	**97**	**2**	**240**	**2**	**369.0**	**50.00**
	4/15/20	600.31	3.70	596.61	**0.73**	ND	**3.2**	ND	**200**	**4.4**	**140**	**55**	**403.3**	-12.50
	4/14/21	600.31	4.13	596.18	**0.69**	ND	ND	ND	**150**	**1.7**	**95**	**70**	**317.4**	-40.63
	7/1/21	600.31	4.60	595.71	**1.5**	ND	ND	**0.18**	**210**	**3.9**	**150**	**88**	**453.6**	-6.25
	11/19/21	600.31	3.30	597.01	**0.45**	ND	ND	ND	**50**	ND	**73**	**20**	**143.5**	-54.38
	1/12/22	600.31	3.85	596.46	**1.1**	ND	ND	ND	**140**	**1.8**	**74**	**54**	**270.9**	-53.75

Notes:

1. NG = Not Gauged; ND = Non-Detect; NT = Not tested; N/A = Not Applicable
2. Water Levels measured from top of riser
3. Blue Shading = Result exceeds NY-TOGS-GA for TCE
4. **RED BOLDED** = Percent increase of TCE from Baseline

Environmental Advantage

ATTACHMENT C

Field Notes

MOD-PAC Corp., Buffalo, NY
Sub-Slab Depressurization System (SSDS) Monthly Monitoring

EA Representative: Jason Kryszak
Date of Inspection: January 11, 2022

Area A

Monthly Monitoring Checklist:

1. Pre-Carbon OVM Reading (ppm): 0.0
2. Post-Carbon OVM Reading (ppm): 0.0

Notes:

Blower 19psi

Area B

Monthly Monitoring Checklist:

1. OVM Reading (ppm): 0.0

Notes:

Blower 19psi

VMP-6B -0.012 in. WC

Vapor Trenches EW-2B, EW-3B, and EW8-B will be sealed this week (1/10 – 1/14)

Area C

Monthly Monitoring Checklist:

1. EW-1C OVM Reading (ppm): 0.0
2. EW-2C OVM Reading (ppm): 0.0
3. EW-3C OVM Reading (ppm): 0.0

Notes:

Vapor Trench EW-3C will be sealed this week (1/10 – 1/14)

MOD-PAC Corp., Buffalo, NY
Sub-Slab Depressurization System (SSDS) Monthly Monitoring

EA Representative: Jason Kryszak
Date of Inspection: February 2, 2022

Area A

Monthly Monitoring Checklist:

1. Pre-Carbon OVM Reading (ppm): 0.08
2. Post-Carbon OVM Reading (ppm): 0.00

Notes: Spent carbon drum transportation for regeneration is scheduled for tomorrow 2/3/22.

Area B

Monthly Monitoring Checklist:

1. OVM Reading (ppm): 0.0

Notes: Vapor Trenches EW-2B, EW-3B, and EW8-B have been sealed.

Area C

Monthly Monitoring Checklist:

1. EW-1C OVM Reading (ppm): 0.0
2. EW-2C OVM Reading (ppm): 0.0
3. EW-3C OVM Reading (ppm): 0.0

Notes: EW-1C Fan appeared to be running accordingly, the fan was replaced on 1/31/2022 by Matrix Environmental Technologies (METI). The following Manometer readings were collected from Area C only due to fan replacement. A full SSDS inspection will Be completed next month for Quarter 1 – 2022. VMP-1C had no pressure reading. Vapor Trench EW-3C has been sealed.

Area C

Extraction Well Location	EW-1C	EW-2C	EW-3C
Magnehelic Pressure Gauge Reading (InH_20)	11	31	30
OVM Reading (ppm)	0.0	0.0	0.0

Area C

Vapor Monitoring Point Location	VMP-1C	VMP-2C	VMP-3C	VMP-4C	VMP-10C	VMP-11C
Manometer Reading (InH_20)	0.00	-0.028	-0.038	-0.012	-0.034	-0.019

MOD-PAC Corp., Buffalo, NY
Sub-Slab Depressurization System (SSDS) Quarterly Monitoring

EA Representative: Mallory Behlmaier, Jason Kryszak
Date of Inspection: March 10, 2022

Area A

Extraction Well Location	EW-1A	EW-2A	EW-3A	EW-4A	EW-5A	EW-6A	EW-7A	EW-8A	EW-9A	EW-10A
Magnehelic Pressure Gauge Reading (InH_20)	15.5	16.5	17.0	16.5	16.5	1.0	16.5	17.0	17.0	17.0

Vapor Monitoring Point Location	VMP-1A	VMP-2A	VMP-3A	VMP-4A	VMP-5A	VMP-6A	VMP-7A	VMP-8A	VMP-9A
Manometer Reading (InH_20)	-0.045	-0.040	-0.045	-0.080	-0.040	+0.013	-0.010	0.00	-0.097

General Monitoring Checklist:

1. Pre-Carbon OVM Reading (ppm): 0.0
2. Post-Carbon OVM Reading (ppm): 0.0
3. Blower Gauge Reading in inches of water (InH_20): 12
4. Quarterly pre- and post-carbon Tedlar Bag samples taken (Y/N)? Yes

General Comments (leaks, defective gauges/fans, positive pressure readings?): VMP-8A had a zero pressure reading, VMP-6A has a positive pressure reading due to EW-6A being turned down/off (it was determined that EW-6A has no influence on the surrounding monitoring points and is therefore off).

Area B

Extraction Well Location	EW-1B	EW-2B	EW-3B	EW-4B	EW-5B	EW-6B	EW-7B	EW-8B
Magnehelic Pressure Gauge Reading (InH_20)	22	23	23	23.5	22.5	23	22.5	22

Vapor Monitoring Point Location	VMP-1B	VMP-2B	VMP-3B	VMP-4B	VMP-5B	VMP-6B	VMP-7B
Manometer Reading (InH_20)	-0.012	-0.032	-0.141	-0.262	0.00	0.00	-0.133

General Monitoring Checklist:

1. OVM Reading (ppm): 0.0
2. Blower Gauge Reading in inches of water (InH_20): 20

General Comments (leaks, defective gauges/fans, positive pressure readings?): Area B is in the process of floor resurfacing and sealing with epoxy for an additional roll storage area. It was noticed that EW-8B has chips and cracks in the vapor trench. MPC was notified about the trench and informed that the entire floor near EW-8B would be resurfaced and epoxied, therefore repairing the trench in the process. VMP-5B and VMP-6B had zero pressure readings.

Area C

Extraction Well Location	EW-1C	EW-2C	EW-3C
Magnehelic Pressure Gauge Reading (InH_20)	11	32	31
OVM Reading (ppm)	0.0	0.0	0.0

Vapor Monitoring Point Location	VMP-1C	VMP-2C	VMP-3C	VMP-4C	VMP-10C	VMP-11C
Manometer Reading (InH_20)	0.00	-0.031	-0.038	0.00	-0.042	-0.022

General Comments (leaks, defective gauges/fans, positive pressure readings?): VMP-1C and VMP-4C had zero pressure readings.

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: SB173/MW-12

Crew: EB, JK

Well Depth (TOR): 14.7'

Well Depth (GS): 15.2'

Initial Water Level (TOR): 4.58'

Initial Water Level (GS): 5.08'

Volume Calculation: 10.12 X .041 X 1 = 0.41 gal.

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
950	0.41gal	—	—	—	Low

Purge Method: Bailer Submersible Pump

Initial Water Quality Fair

Final Water Quality Good

SAMPLE RECORD

Date: 1/12/2022

Time: 9:55am

Crew: EB, JK

Method: Low Flow Sampling

Sample ID: MW-12 (011222)

Water Quality:

pH: —

Conductivity: —

Temperature: —

Turbidity: Low

Volume: 3x40ml

Analysis: VOC 8260 TCL

Chain of Custody #: —

Sample Type: Continuous

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.0 ppm

TOR= Top of Riser

GS= Ground Surface

Signature: Eric J. Boyle

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: SB175/MW-13

Crew: EB, JK

Well Depth (TOR): 14.23'

Well Depth (GS): 14.93'

Initial Water Level (TOR): 3.85'

Initial Water Level (GS): 4.55'

Volume Calculation: 10.38 x .041 x 1 = 0.43 Gal.

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
11:10am	0.43gal	—	—	—	Low

Purge Method: Bailer/Submersible Pump

Initial Water Quality: Fair

Final Water Quality: Good

SAMPLE RECORD

Date: 1/12/2022

Time: 11:15am

Crew: EB, JK

Method: Low Flow Sampling

Sample ID: MW-13(011222)

Water Quality:

pH: —

Conductivity: —

Temperature: —

Turbidity: Low

Volume: 3x 40 ml

Analysis: VOC 8260 TCL

Chain of Custody #: —

Sample Type: Continuous

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.5ppm

TOR= Top of Riser

GS= Ground Surface

Signature: Eric J Boyd

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: SB116/MW-3

Crew: EB, JK

Well Depth (TOR): 15.0'

Well Depth (GS): 15.6'

Initial Water Level (TOR): 5.7'

Initial Water Level (GS): 6.3

Volume Calculation: 9.3 x .041 x 1 = 0.38 Gal.

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
10:10am	0.38gal	-	-	-	Low

Purge Method: Bailer/(Submersible Pump)

Initial Water Quality: Fair

Final Water Quality: Good

SAMPLE RECORD

Date: 1/12/2022

Time: 10:45am

Crew: EB, JK

Method: Low Flow Sampling

Sample ID: MW-3(011222)

Water Quality:

pH: —

Conductivity: —

Temperature: —

Turbidity: Low

Volume: 3x 40ml

Analysis: VOC 8260 TCL

Chain of Custody #: —

Sample Type: Continuous

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.8ppm

TOR= Top of Riser

GS= Ground Surface

Signature: Eric J Bryant

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: SB172/MW-11

Crew: EB, JK

Well Depth (TOR): 15.05'

Well Depth (GS): 15.88'

Initial Water Level (TOR): 5.45'

Initial Water Level (GS): 6.28'

Volume Calculation: 9.6 x .041 x 1 = 0.39 Gal.

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity
10:10am	0.39 gal	–	–	–	Low

Purge Method: Bailer/(Submersible Pump)

Initial Water Quality: Fair

Final Water Quality: Good

SAMPLE RECORD

Date: 1/12/2022

Time: 10:20am

Crew: EB, JK

Method: Low Flow Sampling

Sample ID: MW-11(011222)

Water Quality:

pH: –

Conductivity: –

Temperature: –

Turbidity: Low

Volume: 3x40ml

Analysis: VOC 8260 TCL

Chain of Custody #: –

Sample Type: Continuous

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.1 ppm

TOR= Top of Riser

GS= Ground Surface

Signature: Eric J Bly

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: MW-14

Crew: EB, JK

Well Depth (TOR): 9.7'

Well Depth (GS): 10.16'

Initial Water Level (TOR): 6.4'

Initial Water Level (GS): 6.86'

Volume Calculation: N/A

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity

Purge Method: Bailer/Submersible Pump

Initial Water Quality

Final Water Quality

SAMPLE RECORD

Date:

Time:

Crew:

Method:

Sample ID:

Water Quality:

pH:

Conductivity:

Temperature:

Turbidity:

Volume:

Analysis:

Chain of Custody #:

Sample Type:

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.0ppm

TOR= Top of Riser

GS= Ground Surface

Signature:

Well Data Sheet

Date: 1/12/2022 Job #: 01304

Well ID: MW-15

Crew: EB, JK

Well Depth (TOR): 10.42'

Well Depth (GS): 10.72'

Initial Water Level (TOR): 5.05'

Initial Water Level (GS): 5.35'

Volume Calculation: N/A

DTB-DTW*0.163=1-well vol

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity

Purge Method: Bailer/Submersible Pump

Initial Water Quality

Final Water Quality

SAMPLE RECORD

Date:

Time:

Crew:

Method:

Sample ID:

Water Quality:

pH:

Conductivity:

Temperature:

Turbidity:

Volume:

Analysis:

Chain of Custody #:

Sample Type:

Diameter	Multiply by
1"	0.041
2"	0.163
3"	0.367
4"	0.653
6"	1.468
8"	2.61

Comments: PID: 0.0ppm

TOR= Top of Riser

GS= Ground Surface

Signature:

ATTACHMENT D

Analytical Laboratory Reports

Environmental Advantage

ANALYTICAL REPORT

Lab Number:	L2212728
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	Q1 2022 SSDS MONITORING
Project Number:	01304
Report Date:	03/23/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304

Lab Number: L2212728
Report Date: 03/23/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212728-01	AREA A-PRE(031022)	SOIL_VAPOR	MPC BUFFALO NY	03/10/22 09:00	03/10/22
L2212728-02	AREA A-POST(031022)	SOIL_VAPOR	MPC BUFFALO NY	03/10/22 09:15	03/10/22

Project Name:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

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:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

Case Narrative (continued)

Volatile Organics in Air

L2212728-01 & -02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 03/23/22

AIR

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-01
Client ID: AREA A-PRE(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:00
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/22/22 19:08
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--		1
Chloromethane	0.300	0.200	--	0.620	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	68.4	5.00	--	129	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	56.3	1.00	--	134	2.38	--		1
Trichlorofluoromethane	0.249	0.200	--	1.40	1.12	--		1
Isopropanol	115	0.500	--	283	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	4.46	0.500	--	13.5	1.52	--		1
Methylene chloride	0.504	0.500	--	1.75	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.418	0.200	--	1.30	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.610	0.500	--	1.80	1.47	--		1
cis-1,2-Dichloroethene	0.823	0.200	--	3.26	0.793	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-01
Client ID: AREA A-PRE(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:00
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	8.30	0.200	--	40.5	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.18	0.200	--	7.68	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	41.7	0.200	--	224	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	3.22	0.200	--	13.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.85	0.200	--	14.5	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.258	0.200	--	1.75	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.832	0.200	--	3.61	0.869	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-01
Client ID: AREA A-PRE(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:00
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.21	0.400	--	13.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.03	0.200	--	4.47	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.480	0.200	--	2.36	0.983	--		1
1,2,4-Trimethylbenzene	1.48	0.200	--	7.28	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-02
Client ID: AREA A-POST(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:15
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/22/22 18:29
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.483	0.200	--	2.39	0.989	--		1
Chloromethane	0.487	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	0.333	0.200	--	1.29	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.48	1.00	--	10.6	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.31	0.500	--	3.22	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.307	0.200	--	0.956	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-02
Client ID: AREA A-POST(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:15
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.202	0.200	--	0.986	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.48	0.200	--	7.95	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.745	0.200	--	2.81	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

SAMPLE RESULTS

Lab ID: L2212728-02
Client ID: AREA A-POST(031022)
Sample Location: MPC BUFFALO NY

Date Collected: 03/10/22 09:15
Date Received: 03/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.06	0.400	--	4.60	1.74	--		1
Bromoform	0.210	0.200	--	2.17	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.438	0.200	--	1.90	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.291	0.200	--	1.43	0.983	--		1
1,2,4-Trimethylbenzene	0.928	0.200	--	4.56	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/22/22 14:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1618568-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/22/22 14:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1618568-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304
Lab Number: L2212728
Report Date: 03/23/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/22/22 14:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1618568-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304

Lab Number: L2212728
Report Date: 03/23/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618568-3								
Dichlorodifluoromethane	75		-		70-130	-		
Chloromethane	76		-		70-130	-		
Freon-114	77		-		70-130	-		
Vinyl chloride	78		-		70-130	-		
1,3-Butadiene	88		-		70-130	-		
Bromomethane	74		-		70-130	-		
Chloroethane	80		-		70-130	-		
Ethanol	127		-		40-160	-		
Vinyl bromide	89		-		70-130	-		
Acetone	101		-		40-160	-		
Trichlorofluoromethane	83		-		70-130	-		
Isopropanol	95		-		40-160	-		
1,1-Dichloroethene	84		-		70-130	-		
Tertiary butyl Alcohol	88		-		70-130	-		
Methylene chloride	86		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	113		-		70-130	-		
Freon-113	92		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
Methyl tert butyl ether	82		-		70-130	-		
2-Butanone	89		-		70-130	-		
cis-1,2-Dichloroethene	79		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304

Lab Number: L2212728
Report Date: 03/23/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618568-3								
Ethyl Acetate	95		-		70-130	-		
Chloroform	83		-		70-130	-		
Tetrahydrofuran	85		-		70-130	-		
1,2-Dichloroethane	80		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Benzene	81		-		70-130	-		
Carbon tetrachloride	92		-		70-130	-		
Cyclohexane	96		-		70-130	-		
1,2-Dichloropropane	87		-		70-130	-		
Bromodichloromethane	103		-		70-130	-		
1,4-Dioxane	97		-		70-130	-		
Trichloroethene	88		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	98		-		70-130	-		
cis-1,3-Dichloropropene	91		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	79		-		70-130	-		
1,1,2-Trichloroethane	88		-		70-130	-		
Toluene	79		-		70-130	-		
2-Hexanone	95		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Q1 2022 SSDS MONITORING

Project Number: 01304

Lab Number: L2212728

Report Date: 03/23/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618568-3								
Tetrachloroethene	83		-		70-130	-		
Chlorobenzene	86		-		70-130	-		
Ethylbenzene	84		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	90		-		70-130	-		
o-Xylene	89		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	86		-		70-130	-		
1,2,4-Trimethylbenzene	90		-		70-130	-		
Benzyl chloride	108		-		70-130	-		
1,3-Dichlorobenzene	88		-		70-130	-		
1,4-Dichlorobenzene	88		-		70-130	-		
1,2-Dichlorobenzene	86		-		70-130	-		
1,2,4-Trichlorobenzene	82		-		70-130	-		
Hexachlorobutadiene	81		-		70-130	-		

Project Name: Q1 2022 SSDS MONITORING
Project Number: 01304

Lab Number: L2212728
Report Date: 03/23/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212728-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2212728-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2212728-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2212728-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

Footnotes

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

Terms

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

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

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.

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

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

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

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

J - Estimated value. 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 reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: Data Usability Report

Project Name:	Q1 2022 SSDS MONITORING	**Lab Number:**	L2212728
Project Number:	01304	**Report Date:**	03/23/22

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 3/11/22

ALPHA Job #: L2212728

Client Information

Client: Env. Advantage, Inc.
Address: 3036 N Buffalo Rd.
Orchard Park NY 14127
Phone: 716-667-3180
Fax: 716-667-3156
Email: mhanna@envadvantage.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Q1 2022 SSDS Monitoring
Project Location: MPC Buffalo NY
Project #: 01304
Project Manager: Mark Hanna + Mary Szuskak
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 01304

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: Additionally email results to mszustak@envadvantage.com

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subtract Non-petroleum HC) ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
12728-01	Area A-Pre (031022)	3/10/22	9:00AM	9:00AM	—	—	SV	JK	5L	—	—	X					0.0 PPM
02	Area A-Post (031022)	3/10/22	9:15AM	9:15AM	—	—	SV	JK	5L	—	—	X					0.0 PPM

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: 5L TEDLAR

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	03/10/22 1515		
ADL	3/10/22 1615		
	3/11/22 1:35		
3/11/22 0435		3/11/22 0435	

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2201620
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	CY 2022 SMP GW SAMPLING
Project Number:	01304
Report Date:	01/24/22

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: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2201620-01	MW-11 (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 10:20	01/12/22
L2201620-02	MW-11 (011222) DUPLICATE	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 10:20	01/12/22
L2201620-03	MW-12 (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 09:55	01/12/22
L2201620-04	MW-3 (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 10:45	01/12/22
L2201620-05	MW-13 (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 11:15	01/12/22
L2201620-06	TRIP BLANK (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 00:00	01/12/22
L2201620-07	RINSATE BLANK (011222)	WATER	MOD-PAC CORP, BUFFALO, NY	01/12/22 00:00	01/12/22

Project Name:	CY 2022 SMP GW SAMPLING	**Lab Number:**	L2201620
Project Number:	01304	**Report Date:**	01/24/22

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: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620
Project Number: 01304 **Report Date:** 01/24/22

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.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 01/24/22

ORGANICS

VOLATILES

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-01
Client ID: MW-11 (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 10:20
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/18/22 15:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.20	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	6.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.31	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	19		ug/l	2.5	0.70	1
Trichloroethene	22		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-01 Date Collected: 01/12/22 10:20

Client ID: MW-11 (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	11		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	118		70-130

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-02
Client ID: MW-11 (011222) DUPLICATE
Sample Location: MOD-PAC CORP, BUFFALO, NY

Date Collected: 01/12/22 10:20
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/18/22 16:03
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.16	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	8.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.30	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	17		ug/l	2.5	0.70	1
Trichloroethene	17		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-02 Date Collected: 01/12/22 10:20

Client ID: MW-11 (011222) DUPLICATE Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	11		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	119		70-130

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-03
Client ID: MW-12 (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 09:55
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/18/22 16:26
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-03 Date Collected: 01/12/22 09:55

Client ID: MW-12 (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	120		70-130

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-04
Client ID: MW-3 (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 10:45
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/19/22 09:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.16	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.5		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.86		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	3.3		ug/l	2.5	0.70	1
Trichloroethene	190		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-04 Date Collected: 01/12/22 10:45

Client ID: MW-3 (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	57		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	120		70-130

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-05
Client ID: MW-13 (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 11:15
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/19/22 10:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	54		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	1.1		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
Trichloroethene	74		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-05 Date Collected: 01/12/22 11:15

Client ID: MW-13 (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	140		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	123		70-130

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-06
Client ID: TRIP BLANK (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 00:00
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/19/22 08:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-06 Date Collected: 01/12/22 00:00

Client ID: TRIP BLANK (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	123		70-130

Project Name: CY 2022 SMP GW SAMPLING
Lab Number: L2201620
Project Number: 01304
Report Date: 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-07
Client ID: RINSATE BLANK (011222)
Sample Location: MOD-PAC CORP, BUFFALO, NY
Date Collected: 01/12/22 00:00
Date Received: 01/12/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/19/22 09:18
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

SAMPLE RESULTS

Lab ID: L2201620-07 Date Collected: 01/12/22 00:00

Client ID: RINSATE BLANK (011222) Date Received: 01/12/22

Sample Location: MOD-PAC CORP, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	123		70-130

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/18/22 08:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1595854-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/18/22 08:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1595854-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/18/22 08:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1595854-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	119		70-130

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/19/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07 Batch: WG1595988-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: CY 2022 SMP GW SAMPLING **Lab Number:** L2201620

Project Number: 01304 **Report Date:** 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/19/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07 Batch: WG1595988-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/19/22 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07 Batch: WG1595988-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	120		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1595854-3 WG1595854-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	92		94		70-130	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	130		130		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	97		98		67-130	1		20
trans-1,3-Dichloropropene	82		82		70-130	0		20
cis-1,3-Dichloropropene	88		89		70-130	1		20
Bromoform	89		88		54-136	1		20
1,1,2,2-Tetrachloroethane	86		88		67-130	2		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	77		76		39-139	1		20
Vinyl chloride	130		130		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1595854-3 WG1595854-4								
Chloroethane	130		120		55-138	8		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	92		92		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	88		89		58-148	1		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	97		94		63-138	3		20
4-Methyl-2-pentanone	88		89		59-130	1		20
2-Hexanone	85		88		57-130	3		20
Bromochloromethane	110		120		70-130	9		20
1,2-Dibromoethane	96		95		70-130	1		20
1,2-Dibromo-3-chloropropane	82		80		41-144	2		20
Isopropylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	98		96		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1595854-3 WG1595854-4								
1,2,4-Trichlorobenzene	96		94		70-130	2		20
Methyl Acetate	96		95		70-130	1		20
Cyclohexane	130		130		70-130	0		20
1,4-Dioxane	110		100		56-162	10		20
Freon-113	120		120		70-130	0		20
Methyl cyclohexane	99		100		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		108		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	109		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1595988-3 WG1595988-4								
Methylene chloride	98		95		70-130	3		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	84		86		70-130	2		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	140		140		62-150	0		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	99		96		67-130	3		20
trans-1,3-Dichloropropene	78		78		70-130	0		20
cis-1,3-Dichloropropene	87		84		70-130	4		20
Bromoform	89		88		54-136	1		20
1,1,2,2-Tetrachloroethane	78		78		67-130	0		20
Benzene	96		96		70-130	0		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	110		100		64-130	10		20
Bromomethane	84		76		39-139	10		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1595988-3 WG1595988-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	92		91		63-130	1		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	72		79		58-148	9		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	83		77		63-138	8		20
4-Methyl-2-pentanone	78		76		59-130	3		20
2-Hexanone	75		74		57-130	1		20
Bromochloromethane	120		120		70-130	0		20
1,2-Dibromoethane	93		92		70-130	1		20
1,2-Dibromo-3-chloropropane	80		83		41-144	4		20
Isopropylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	97		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1595988-3 WG1595988-4								
1,2,4-Trichlorobenzene	97		96		70-130	1		20
Methyl Acetate	84		80		70-130	5		20
Cyclohexane	120		120		70-130	0		20
1,4-Dioxane	80		82		56-162	2		20
Freon-113	120		120		70-130	0		20
Methyl cyclohexane	98		97		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		110		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	86		85		70-130
Dibromofluoromethane	113		111		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1595854-6 WG1595854-7 QC Sample: L2201620-03 Client ID: MW-12 (011222)												
Methylene chloride	ND	10	9.0	90		10	100		70-130	11		20
1,1-Dichloroethane	ND	10	10	100		11	110		70-130	10		20
Chloroform	ND	10	9.5	95		10	100		70-130	5		20
Carbon tetrachloride	ND	10	9.4	94		9.3	93		63-132	1		20
1,2-Dichloropropane	ND	10	9.7	97		10	100		70-130	3		20
Dibromochloromethane	ND	10	9.4	94		8.5	85		63-130	10		20
1,1,2-Trichloroethane	ND	10	8.5	85		7.6	76		70-130	11		20
Tetrachloroethene	ND	10	11	110		8.3	83		70-130	**28**	Q	20
Chlorobenzene	ND	10	9.8	98		9.5	95		75-130	3		20
Trichlorofluoromethane	ND	10	11	110		11	110		62-150	0		20
1,2-Dichloroethane	ND	10	9.6	96		10	100		70-130	4		20
1,1,1-Trichloroethane	ND	10	9.7	97		9.9	99		67-130	2		20
Bromodichloromethane	ND	10	8.7	87		9.5	95		67-130	9		20
trans-1,3-Dichloropropene	ND	10	6.8	**68**	Q	6.0	**60**	Q	70-130	13		20
cis-1,3-Dichloropropene	ND	10	6.5	**65**	Q	7.2	72		70-130	10		20
Bromoform	ND	10	7.5	75		8.3	83		54-136	10		20
1,1,2,2-Tetrachloroethane	ND	10	7.4	74		8.2	82		67-130	10		20
Benzene	ND	10	9.0	90		9.8	98		70-130	9		20
Toluene	ND	10	9.8	98		8.1	81		70-130	19		20
Ethylbenzene	ND	10	9.2	92		8.4	84		70-130	9		20
Chloromethane	ND	10	10	100		12	120		64-130	18		20
Bromomethane	ND	10	3.9	39		4.7	47		39-139	19		20
Vinyl chloride	ND	10	12	120		12	120		55-140	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1595854-6 WG1595854-7 QC Sample: L2201620-03 Client ID: MW-12 (011222)												
Chloroethane	ND	10	10	100		13	130		55-138	**26**	Q	20
1,1-Dichloroethene	ND	10	10	100		11	110		61-145	10		20
trans-1,2-Dichloroethene	ND	10	9.6	96		10	100		70-130	4		20
Trichloroethene	ND	10	9.2	92		9.3	93		70-130	1		20
1,2-Dichlorobenzene	ND	10	9.3	93		9.1	91		70-130	2		20
1,3-Dichlorobenzene	ND	10	8.9	89		8.6	86		70-130	3		20
1,4-Dichlorobenzene	ND	10	9.0	90		8.8	88		70-130	2		20
Methyl tert butyl ether	ND	10	8.2	82		9.2	92		63-130	11		20
p/m-Xylene	ND	20	19	95		17	85		70-130	11		20
o-Xylene	ND	20	19	95		18	90		70-130	5		20
cis-1,2-Dichloroethene	ND	10	9.4	94		10	100		70-130	6		20
Styrene	ND	20	18	90		17	85		70-130	6		20
Dichlorodifluoromethane	ND	10	9.2	92		8.9	89		36-147	3		20
Acetone	ND	10	9.4	94		10	100		58-148	6		20
Carbon disulfide	ND	10	9.9	99		10	100		51-130	1		20
2-Butanone	ND	10	7.9	79		8.2	82		63-138	4		20
4-Methyl-2-pentanone	ND	10	8.0	80		7.0	70		59-130	13		20
2-Hexanone	ND	10	6.9	69		7.7	77		57-130	11		20
Bromochloromethane	ND	10	10	100		12	120		70-130	18		20
1,2-Dibromoethane	ND	10	8.3	83		8.2	82		70-130	1		20
1,2-Dibromo-3-chloropropane	ND	10	7.2	72		7.6	76		41-144	5		20
Isopropylbenzene	ND	10	8.7	87		8.2	82		70-130	6		20
1,2,3-Trichlorobenzene	ND	10	8.3	83		8.5	85		70-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304
Lab Number: L2201620
Report Date: 01/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1595854-6 WG1595854-7 QC Sample: L2201620-03 Client ID: MW-12 (011222)												
1,2,4-Trichlorobenzene	ND	10	8.3	83		8.7	87		70-130	5		20
Methyl Acetate	ND	10	6.3	**63**	Q	6.9	**69**	Q	70-130	9		20
Cyclohexane	ND	10	12	120		9.8J	98		70-130	20		20
1,4-Dioxane	ND	500	380	76		450	90		56-162	17		20
Freon-113	ND	10	10	100		9.5	95		70-130	5		20
Methyl cyclohexane	ND	10	8.4J	84		6.8J	**68**	Q	70-130	**21**	Q	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		113		70-130
4-Bromofluorobenzene	85		92		70-130
Dibromofluoromethane	108		118		70-130
Toluene-d8	106		90		70-130

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

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(*)
L2201620-01A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-01B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-01C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-02A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-02B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-02C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03A1	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03A2	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03B1	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03B2	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03C1	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-03C2	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-04A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-04B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-04C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-05A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-05B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-05C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-06A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-06B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: CY 2022 SMP GW SAMPLING
Project Number: 01304

Lab Number: L2201620
Report Date: 01/24/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2201620-07A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-07B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)
L2201620-07C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	CY 2022 SMP GW SAMPLING	**Lab Number:**	L2201620
Project Number:	01304	**Report Date:**	01/24/22

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY 2022 SMP GW SAMPLING	**Lab Number:**	L2201620
Project Number:	01304	**Report Date:**	01/24/22

Footnotes

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

Terms

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

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

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.

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY 2022 SMP GW SAMPLING	**Lab Number:**	L2201620
Project Number:	01304	**Report Date:**	01/24/22

Data Qualifiers

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	CY 2022 SMP GW SAMPLING	**Lab Number:**	L2201620
Project Number:	01304	**Report Date:**	01/24/22

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 1/13/2022

ALPHA Job #: L2201620

Client Information
Client: ENVIRONMENTAL ADVANTAGE
Address: 3636 N BUFFALO Rd
ORCHARD PARK NY 14127
Phone: (716) 667-3130
Fax: (716) 667-3156
Email: mhanna@envadvantage.com

Project Information
Project Name: CY 2022 SMP GROUNDWATER SAMPLING
Project Location: MOD-PAC CORP BUFFALO NY
Project # 01304
(Use Project name as Project #) ☐
Project Manager: MARK HANNA + MaryszuStak
ALPHAQuote #:

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 # 01304

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:
OPEN NEW SAMPLE DELIVERY GROUP AND CLOSE 01/12/2022
PLEASE ALSO EMAIL ebetzold + jKryszak@envadvantage.com

Please specify Metals or TAL. MSzustak@envadvantage.com

ANALYSIS
VOCs 8260 TCL

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	Sample Specific Comments	Total Bottle
01620-01	MW-11 (011222)	01/12/22	10:20am	GW	EB		3
02	MW-11 (011222) DUPLICATE	01/12/22	10:20am	GW	EB		3
03	MW-12 (011222)	01/12/22	9:55am	GW	EB		3
~~04~~ 03	MW-12 (011222) MS	01/12/22	9:55am	GW	EB		3
~~05~~ 03	MW-12 (011222) MSD	01/12/22	9:55am	GW	EB		3
~~06~~ 04	MW-3 (011222)	01/12/22	10:45am	GW	EB		3
~~07~~ 05	MW-13 (011222)	01/12/22	11:15am	GW	EB		3
~~08~~ 06	TRIP BLANK (011222)	01/12/22		~~GW~~	EB		2
~~09~~ 07	RINSATE BLANK (011222)	01/12/22		GW	EB		3
		~~01/12/22~~		~~GW~~			

Container Type: V
Preservative: B

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	01/12/22 1157	Jaclyn Foley (AAL)	1/12/22 11:57
Jaclyn Foley (AAL)	1/12/22 11:57		1/13/22 0140

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 E

Carbon Removal Documents

Environmental Advantage

ACTIVATED CARBON & RELATED SERVICE

CARBON ACTIVATED CORP.

3774 Hoover Road
Blasdell,, NY 14219
Phone: (716) 677-6661
Fax: (716) 677-6663
E-mail: callen@activatedcarbon.com
Website: www.carbonactivatedcorp.com

Spent Carbon Profile Form

Date: 10/23/2020

Generator Information:

1) Generator: MOD-PAC CORP Mailing Address: 1801 Elmwood Avenue, Buffalo, NY 14207 Contact: Tony Barberic, Maintenance Manager

Phone No: (716) 873-0640

Site Information:

2) Site Name: MOD-PAC Corp Address: 1801 Elmwood Avenue, Buffalo, NY 14207 EPA ID No.: _____

Phone No.: (716) 873-0640 Fax No.: _____

Consultant Information:

3) Consultant Firm: Environmental Advantage, Inc. Contact: Mark Hanna

Phone No.: (716) 667-3130 Fax No.: (716) 667-3156

4)

a) Is the media NSF standardized Yes ☐ No ☒

b) Original Manufacturer / Regenerator- ENCOTECH Carbon Services out of PA.

c) Provide a specific description of the process that generated the spent carbon including Constituents being treated also note if it was use for potable water or food processing Applications.

The Spent Carbon was generated through the treatment of soil vapors extracted from underneath the MODPAC Corp. building slab. Chlorinated Solvents were identified underneath the building slab during Brownfield Remedial work. As part of the BCP site remediation, a sub-slab depressurization system was installed as an engineering control. TCLP analysis was completed on the spent carbon. Alpha Analytical Laboratory Report has been provided.

5) a) Type of Carbon: ☒ Coal ☐ Coconut ☐ Other_____

b) Mesh Size. unknown

6 a) Type of Carbon ☐ Wet ☒ Vapor ☐ Impregnated

b) Percent of free Liquids Range: ☒ 0% ☐ 1-15% ☐ other: _____

7) Liquid Flash Point: ☐<140 F ☐ > 140F ☒ N/A

8) Foreign Material: ☐ Yes ☒ No (Rocks, dirt, sand, etc….)

9) pH Range: ☐ < 2 ☐ 2-4 ☒ 4-10 ☐ > 10

10) Is Spent Carbon Generated at a Subpart FF Facility? (Benzene NESHAP) ☐ Yes ☒ No
(If yes a Total Benzene Analysis is required)

11) Does Carbon have a Strong Odor? ☐ Yes ☒ No Describe Type: _____

_____

12) Does the spent Carbon contain any of the following?

- Polychlorinated Biphenyls (PCB's) ☐ Yes ☒ No
- Dioxins and or Furans ☐ Yes ☒ No
- Dibromochloropropane (DBCP) ☐ Yes ☒ No
- Sulfide or Cyanide ☐ Yes ☒ No
- Explosive Pyrophoric/Radioactive Material ☐ Yes ☒ No
- Infectious Material ☐ Yes ☒ No
- Shock Sensitive Material ☐ Yes ☒ No
- Oxidizer ☐ Yes ☒ No
- Heavy Metals ☐ Yes ☒ No

Generator Classification of Spent Carbon:

13) Is Spent Carbon a RCRA Hazardous Waste? ☐ Yes ☒ No
RCRA Hazardous Waste requires 11 RCRA Analysis
(If you answered then list waste code(s) below:

_____ _____ _____ _____

_____ _____ _____ _____

14) Is spent Carbon a State Hazardous Waste? ☐ Yes ☒ No
(If you answered then list waste code(s) below:

_____ _____ _____ _____

_____ _____ _____ _____

15) Is Waste subject to Land Disposal Restriction? ☐ Yes ☒ No

16) If this is a renewal please provide existing profile approval number: ___N/A_____

17) Estimated Annual Carbon Usage for this Site: ____1,000 lbs____

Generator Certification:

I hereby certify that all information on this form, and attached documents are true. Also that this information accurately describes the subject spent carbon. I further certify that all samples analyses submitted are a representative of the subject spent carbon in accordance with the procedures established in 40 CFR 261 Appendix I or by using an equivalent method. All relevant information regarding either known or suspected hazards in the possession of the generator has been disclosed. I authorize Carbon Activated Corporation to obtain a sample from any waste shipment for the purpose of confirming or for further investigation. If I am an consultant signing on the behalf of the generator, I have their full approval to do so.

Mary M. Szustak on behalf of MOD-PAC CORP. — Printed Name

Mary M Szustak — Signature

Sr. Project Scientist/Site Services Team Lead — Title

10/23/2020 — Date

Submit the profile form and analytical reports via Fax or Mail to the below address or fax. If mailed copy this form and analytical information for your records.

CARBON ACTIVATED CORPORATION
3774 Hoover Road, Blasdell NY 14210

Tel. 716 821 7830 Fax 716 821 0790 email : callen@activatedcarbon.com

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For Internal Use Only

_____ Profile Approval Number:

_____ Valid Through:

_____

Approved By: Christopher Allen

ANALYTICAL REPORT

Lab Number:	L2201122
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	MPC SPENT CARBON WASTE CHAR
Project Number:	01304
Report Date:	01/21/22

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: MPC SPENT CARBON WASTE CHAR
Project Number: 01304

Lab Number: L2201122
Report Date: 01/21/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2201122-01	WC-001	SOLID	1801 ELMWOOD AVE	01/07/22 11:30	01/07/22

Project Name:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

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:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

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.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 01/21/22

ORGANICS

VOLATILES

Project Name: MPC SPENT CARBON WASTE CHAR **Lab Number:** L2201122

Project Number: 01304 **Report Date:** 01/21/22

SAMPLE RESULTS

Lab ID: L2201122-01
Client ID: WC-001
Sample Location: 1801 ELMWOOD AVE

Date Collected: 01/07/22 11:30
Date Received: 01/07/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260C
Analytical Date: 01/19/22 09:04
Analyst: MM

TCLP/SPLP Ext. Date: 01/18/22 11:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	20		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	110		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
dibromofluoromethane	110		70-130

Project Name: MPC SPENT CARBON WASTE CHAR **Lab Number:** L2201122

Project Number: 01304 **Report Date:** 01/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/19/22 07:42
Analyst: MM
TCLP/SPLP Extraction Date: 01/18/22 11:51

Extraction Date: 01/18/22 11:51

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1596089-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	100		70-130
dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MPC SPENT CARBON WASTE CHAR
Project Number: 01304
Lab Number: L2201122
Report Date: 01/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1596089-3 WG1596089-4								
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	100		110		63-132	10		20
Tetrachloroethene	87		90		70-130	3		20
Chlorobenzene	83		87		75-130	5		25
1,2-Dichloroethane	100		110		70-130	10		20
Benzene	100		110		70-130	10		25
Vinyl chloride	120		120		55-140	0		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	79		80		70-130	1		20
2-Butanone	98		100		63-138	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		100		70-130
Toluene-d8	90		92		70-130
4-Bromofluorobenzene	98		96		70-130
dibromofluoromethane	112		110		70-130

Project Name: MPC SPENT CARBON WASTE CHAR
Project Number: 01304

Lab Number: L2201122
Report Date: 01/21/22

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(*)
L2201122-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.3	Y	Absent		TCLP-EXT-ZHE(14)
L2201122-01X	Vial unpreserved Extracts	A	NA		2.3	Y	Absent		TCLP-VOA(14)
L2201122-01Y	Vial unpreserved Extracts	A	NA		2.3	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

Footnotes

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

Terms

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

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

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.

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

Data Qualifiers

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	MPC SPENT CARBON WASTE CHAR	**Lab Number:**	L2201122
Project Number:	01304	**Report Date:**	01/21/22

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 1/8/22

ALPHA Job #: L2201122

Project Information
Project Name: MPC @ SPENT CARBON WASTE CHARACTERIZATION
Project Location: 1801 ELMWOOD AVE,
Project # 01304
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

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

Client Information
Client: ENVIRONMENTAL ADVANTAGE
Address: 3636 N BUFFALO Rd
ORCHARD PARK NY 14127
Phone: (716) 667-3130
Fax: (716) 667-3156
Email: mhanna@envadvantage.com

Deliverables
☐ 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:
EMAIL RESULTS TO mszustak + rbetzold@envadvantage.com

Please specify Metals or TAL.

ANALYSIS
TCLP VOC

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	TCLP VOC	Sample Specific Comments	Total Bottle
01122-01	WC-001	01/07/22	1130	SOLID	SK	X		1

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

Container Type	A									
Preservative	A									

Relinquished By:	Date/Time	Received By:	Date/Time
	01/07/22 1502		1/7/22 1501
	1/7/2022 1700		1/8/22 1:20

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)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone (716) 667-3130

4. Waste Tracking Number 01304-B

5. Generator's Name and Mailing Address
Mid-Pac Corp
1801 Elmwood Avenue
Buffalo, NY 14207

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

Generator's Phone: (716) 873-0040

6. Transporter 1 Company Name
Dirt Works, Inc.

U.S. EPA ID Number
9A-986

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Carbon Activated Corporation
3774 Hoover Road
Blasdell, NY 14219

U.S. EPA ID Number

Facility's Phone: (716) 667-4661

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON RCRA, NON DOT, NON Regulated (NON-Hazardous spent GAC for Recycle)	3	DM	EST. 1200	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # SPA-PY-20-015
Pre-Determined BUD under 6NYCRR 360.12(c)(4)(i)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Eric Betzold on behalf of Mid-Pac Corp
Signature:
Month: 2 Day: 3 Year: 22

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Spencer Schambach
Signature:
Month: 2 Day: 3 Year: 22

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name
Signature:
Month Day Year

DESIGNATED FACILITY TO GENERATOR