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Former Ozone Industries, Inc. Site, Ozone Park, Queens New York

NYSDEC Site Number: 2-41-033

August 2024 Progress Report December 2023 through June 2024 (7-months)



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1. Introduction

On behalf of Endzone Inc. (Endzone), AECOM has prepared this semi-annual (6-month) Progress Report, which summarizes the results of the Operation and Maintenance (O&M) of the Soil Vapor Extraction (SVE) and Sub-slab Depressurization (SSD) remedial systems at the Former Ozone Industries, Inc. site (New York State Department of Environmental Conservation [NYSDEC] Site Number: 2-41-033). This report covers the period of December 2023 through June 2024.

Extensive re-bound site testing and monitoring was completed after the remedial systems were shut off in July 2019 per NYSDEC and in conjunction with an approved work plan by AECOM (dated August 21, 2019 and approved by NYSDEC on October 30, 2019). The results of the testing were provided in the January 2021 semi-annual Progress Report by AECOM. In the January 2021 report, AECOM recommended the completion of a Final Engineering Report (FER) that includes the shutdown and decommissioning of the SVE system and implementation of engineering controls. Subsequently, there were attempts to meet with NYSDEC and New York State Department of Health (NYSDOH) to discuss the results and site closure, and AECOM provided additional requested figures to NYSDEC for their evaluation. Eventually, AECOM had a call with NYSDEC in May 2021, and NYSDEC requested that the remedial systems (SVE and SSD be restarted and operated as they create a “P” site and launch an investigation into other off-site source areas and responsible parties). Both systems were restarted in June 2021 as requested and have been operating since restart. The submittal of this progress report summarizing system operations (since system restart in June 2021) is consistent with the format of previous reports provided.

The site is located in a mixed commercial/industrial/residential area of the Ozone Park section of Queens County of New York City, New York and is identified as Block 9106 and Lot 70 on the New York City Tax Map. The site is bounded by 101st Avenue to the north, 103rd Avenue to the south, 99th Street to the west, and 100th Street to the east (see **Figures 1 and 2**). The site is located across the street from 101-32 101st Street, the location of the former Ozone Industries facility.

Operation and maintenance visits and sampling events reported herein were conducted by either Clean Globe Environmental (Clean Globe) under subcontract to AECOM or AECOM personnel. The findings of each visit are discussed below.

All the data included in this report will be submitted electronically to the NYSDEC website.

NYSDEC Communications During this Period

On June 11, 2024 and June 26, 2024 Javier Perez-Maldonado of NYSDEC (Project Manager, Division of Environmental Conservation) and Raimundo Matos of AECOM spoke on a call and discussed the Notification of Site Change Use submitted to NYSDEC on April 26, 2024 and SSDS suspension request for this Site, in addition to future activities and potential for shutdown of either system (SVE/SSD). It was recommended by NYSDEC that an additional vapor intrusion sampling round (indoor air and sub-slab) be completed to provide updated air sampling results and to confirm the bays (Bays 8 – 15) can be reoccupied. Also, as indicated by Mr. Perez-Maldonado, a recent indoor air sampling event will be required by NYSDOH in order to demonstrate that the indoor air continues to be acceptable for commercial use as the most recent previous indoor air samples collected at the site were in 2020. Additionally, as

indicated by NYSDEC, this event will be required to support the “change of use” request submitted to NYSDEC on April 26, 2024. Details of this sampling event are provided in **Section 3** below.

2. SVE/SSD Operation and Maintenance

This section presents the evaluation of the system influent and effluent analytical air sampling data, (one round during this 6-month period) and the field data collected during each of the O&M site visits during this period (December 2023 through May 2024). The bi-monthly O&M site visits took place on December 13, 2023, March 18, 2024 and May 13, 2024. **Figure 1** depicts the layout of the bays and systems.

O&M Events

The following information was primarily gathered during the O&M event:

- SSD vacuum blower, vacuum, flow, and temperature readings;
- SSD monitoring well head vacuums and photoionization detector (PID) concentrations;
- Effluent concentrations exiting the SSD carbon vessels;
- SVE vacuum blower, vacuum, flow, and temperature readings;
- SVE monitoring well head PID concentrations;
- Effluent concentrations exiting the SVE carbon vessels;
- Total effluent concentrations being discharged from the exhaust stack; and
- Air samples collected for laboratory analysis from the influent of the SVE, and total combined effluent (SVE/SSD) following off gas treatment.

SSD

During this period, the SSD system maintained an average flowrate of 280 standard cubic feet per minute (SCFM) applied to the 8 SSD legs. The vacuum applied to each leg was individually adjusted to provide a minimum flowrate of at least 30 SCFM to each bay to maintain adequate protection from mitigation of potential subsurface vapor migration as outlined in the July 2016 Interim Site Management Plan (ISMP) for the site, as approved by NYSDEC on September 8, 2016. During each O&M visit when the system was running, the flowrate at each leg was measured with a hot wire anemometer to confirm that the minimum flowrate was being upheld. Flowrates in each of the individual legs ranged from a minimum of 14.8 SCFM to a maximum of 49.0 SCFM. SSD-1, SSD-2, SSD-5, SSD-6, SSD-7, and SSD-8 had average flowrates below the design minimum of 30 SCFM but vacuum was still observed in each of the bays. This leg was adjusted during the O&M event to meet the minimum 30 SCFM threshold.

Influent volatile organic compounds (VOCs) were measured with a calibrated PID from each of the SSD legs during the O&M event and concentrations were below the detection limit from each individual leg. Total VOC levels prior to carbon treatment ranged from below detection limits to 10.0 ppm measured in December 2023. A summary of the readings taken during the O&M visit are presented in **Appendix A**.

SVE

The SVE system maintained an average total flowrate of 345 SCFM during this period. Due to historical non-detect PID readings during previous (pre-2021) monitoring and sub slab vapor sampling events, eleven of the SVE legs (SVE-1, SVE-2, SVE-4, SVE-5, SVE-6, SVE-7, SVE-8, SVE-24, SVE-25, SVE-26, and SVE-27) have been shut off since 2019 to increase vacuum influence on the remaining legs. Like the SSD system, the vacuum applied to the SVE

wells was manually adjusted so that each leg maintained a minimum flowrate of approximately 25 SCFM, as stated in the ISMP.

Influent VOCs from each of the individual SVE legs were measured with a calibrated PID during each O&M event and were all below the detection limit of the PID during the O&M event.

The VOC concentrations collected during this reporting period appear to be reaching asymptotic levels and continue to support the idea that the remediation capabilities of the SVE system have been achieved. A summary of the readings collected during the O&M visit are presented in **Appendix A**.

Combined Systems Operation

In each of the eight bays, two shallow monitoring points, each at a depth of 1.5 feet below ground surface (bgs) were monitored to observe SSD system influence. Two deep monitoring points, each at a depth of approximately 15 feet bgs, were monitored in each bay to observe SVE influence. In addition to these monitoring points, two wells each at a depth of 30 feet bgs were also monitored in Bay 12 because that bay has bi-level SVE wells which extend to approximately 30 feet bgs. During the O&M events this monitoring period, the vacuum influence and the VOC concentrations were measured at each operable monitoring point. A summary of the monitoring point results is included in **Appendix A**.

Laboratory Analyses of Air Samples

One round of air samples from the system were collected on March 18, 2024 from the SVE influent (before carbon treatment), SSD influent (before carbon treatment), and the total combined effluent (following carbon treatment). Per compliance requirements established in a memorandum issued by the NYSDEC on February 28, 2003 (Substantive Compliance with Air Requirements), the emission from the system is not to exceed 0.5 pounds per hour (lbs/hr). The results of the completed air sampling events are shown in **Table 1**.

The laboratory analytical report from the air sampling is provided in **Appendix B**. The system samples were analyzed for the VOCs listed in the TO-15 method.

Analytically, effluent concentrations have remained below the effluent limit established by the NYSDEC regulations. Mass removal data at the influent of both SVE and SSD system as well as the combined effluent mass discharge rate following carbon treatment is presented in **Table 2**.

Mass removal achieved from the SVE system is approximately 0.00206 lbs/hr. When the mass removal rate for the SVE and SSD system are totaled for each sampling event, it is below the discharge limit requiring pollution control. The mass of contaminants discharged to the atmosphere following carbon treatment was an average of 0.00116 lbs/hr.

Two graphs are included in **Appendix C** which depict VOC concentrations vs time for the influent (prior to treatment) SSD and SVE systems. Following the system restart in June 2021, after being shut down since August 2019, VOC concentrations did not rebound to the levels previously measured during past sampling events. A slight increase in concentrations of VOCs was observed directly following restart, but influent concentrations have remained below detection limits since the August 2021 O&M event. Analytical results are still well below the initial concentration observed at the startup of the systems in 2016.

Unauthorized Entries and Damages

During the completion of the March 2024 O&M event on March 18, 2024, it was discovered that two of the bays on 100th street, Bay 10 and Bay 11, were inaccessible. Upon further investigation, it was noticed that the locks that AECOM had installed on the doors of these two bays had been cut and replaced with non-AECOM locks and AECOM was unable to gain access to either bay. It appeared that an unauthorized construction company had cut the locks to the bays, welded the swinging doors to Bay 10 shut, mobilized equipment inside and were using the space as storage for their equipment and supplies. Prior to leaving site, AECOM was able to speak with an employee of the construction company and received contact information for the company owner who AECOM attempted to contact. AECOM also reached out to Harry Doobay of the New York Department of Citywide Administrative Services (NYC DCAS) to notify them of the illegal occupants of the bays as the city is the current owner of the lease on the property. It was conveyed to AECOM and Endzone Inc. that nothing could be done remotely and that a physical presence had to be made on site to remove the illegal occupants.

On April 5, 2024, personnel from AECOM along with representation from Endzone Inc. arrived on site to assess the illegal occupancy situation further and initiate removal of the unauthorized tenants from the site. Additionally, Ken Lau from NYC DCAS was onsite to provide lease agreement support. Once the tenants were identified as Anel Queens Construction Inc., New York Police Department (NYPD) were called and confronted the unauthorized tenants. An agreement was made between Endzone Inc. and Anel Queens Construction that the unauthorized tenants would remove their equipment from the two bays by the following Monday morning, April 8, 2024. A site visit by AECOM on April 8, 2024 confirmed that the equipment from within the bays had been removed and Anel Queens Construction had vacated the premises. Upon inspection of the newly vacated property, it was noted that miscellaneous trash was still present and that the interior wall between Bays 10 and 11 was also fully removed. The swinging door to Bay 10 remained welded shut and was only accessible through the Bay 11 entrance. Before leaving site, new AECOM locks were reinstalled onto the exterior doors. The frequency of site visits by AECOM or Clean Globe, the O&M subcontractor, have been increased since April 2024 and there has been no further indication of unauthorized tenant occupancy since that date. However, AECOM has observed an increase in unhoused individuals entering the bays, particularly Bay 9. Due to their presence, as recently as August 2024, air sampling activities could not be completed in that bay.

3. Summary and Future Actions

During this period, the SSD and SVE systems have operated as intended. The SVE and SSD influent levels from this reporting period are similar or “flat” after decreasing from higher levels in 2016.

Future Actions – Final Engineering Report and O&M Activities

During conversations with NYSDEC (May 22, 2023, conference call), Endzone Inc. and AECOM were instructed by NYSDEC to prepare a Final Engineering Report (FER) for the Site. The purpose of the FER is to document that the remedial activities at the site have been completed; this is accordance to the February 2010 Record of Decision (ROD) and the November 2011 Remedial Design/Remedial Action Work Plan (RD/RAWP). On June 11, 2024 and June 26, 2024, AECOM and NYSDEC discussed the path forward for the site. As previously mentioned, NYSDEC indicated that in order to suspend operation of either of the systems, another round of indoor air and sub-slab samples was to be completed to show that the site indoor air conditions have not changed.

AECOM estimates that the FER, plus any other supplemental documents will be submitted to NYSDEC during the second half of the fiscal year 2024 and will include the addition of indoor air sampling to be conducted in August 2024.

While the FER is being completed and approved by NYSDEC and NYSDOH, the O&M events will continue at a bi-monthly (every two months) basis. AECOM will also continue to perform periodic site visits throughout the remainder of the year to ensure that the storage bays have not been tampered or damaged and to make sure the system is optimally performing. Air samples will be taken at the SVE influent and total effluent following carbon treatment on a semi-annual basis (Winter 2024), while the system is operational. SSD influent and effluent samples will be suspended once approval from NYSDEC is received to suspend temporarily the operation of the SSD. See below Section for more details. The results of the Winter 2024 monitoring will be provided in the semi-annual (6-month) report to NYSDEC in February 2025.

Notification of Site Change Use - Indoor Air Sampling

As previously mentioned, on June 11, 2024, AECOM had a call with NYSDEC to discuss the Notification of Site Change of Use for the site. It was recommended by NYSDEC that an additional vapor intrusion sampling round (indoor air and sub-slab) be completed to provide updated air sampling results and to confirm the bays (Bays 8 – 15) can be reoccupied.

Therefore, during the month of August 2024, AECOM will perform one round of indoor air sampling consisting of eight indoor and one outdoor (background) ambient air samples. Samples will be collected from the site in a similar manner to previous rounds; one sample for each bay (i.e., Bays 8B through 15) (eight samples) and one background sample collected from outside of Bay 14. The samples will be collected for a period of up to eight hours with the use of certified clean, 6-liter Summa® canisters. The canisters will be situated approximately three to five feet off the ground to represent breathing zones within each bay.

Additionally, after completing the indoor air sampling event, AECOM will collect soil gas (sub-slab) samples from four existing vapor monitoring points from selected Bays. Each of the sub-slab samples will be collected using a 2.6-liter Summa® canister up to a period of 30 minutes. Prior to sampling, approximately five liters will be purged from the

sampling points to remove the stagnant air and ensure that the only vapors from the surrounding soil are being collected. After purging, the sub-slab samples will be screened using a calibrated photoionization detector and then subsequently connected to a certified clean, 2.6-liter Summa® canisters.

The indoor air, background air samples and the sub-slab samples will be analyzed for VOC analysis via U.S. Environmental Protection Agency (EPA) Method TO-15 (indoor air via TO-15 SIM), with the reporting of five site-specific VOC constituents (vinyl chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, trichloroethene [TCE], and tetrachloroethene [PCE], similar to previous NYSDEC-approved sampling events.

TABLES

Table 1- Summary O&M Air Sample
Analytical Data
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	SVE Influent						
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	10/25/2023	3/18/2024
		After system restart 5 days later	2021 Q3 Sampling Event	2021 Q4 Sampling Event	2022 Q1 Sampling Event	2022 Q3 Sampling Event	2023 Q4 Sampling Event	2024 Q1 Sampling Event
	LAB SAMPLE ID	L2134418-01	L2150935-03	22A0162-03	L2215966-03	L2239902-03	L2363961-02	L2415720-01
ANALYTE	PID READING (ppm)	1.4	ND	ND	ND	ND	ND	0.6
VOCs TO-15	Units							
1,1,1-Trichloroethane	ug/m ³	<5.46	NS	1.20	<4.54	<10.9	<6.82	<1.09
1,2,4-Trimethylbenzene	ug/m ³	<4.92	NS	4.50	<4.1	67.4	<6.15	9.34
1,4-Dichlorobenzene	ug/m ³	<6.01	NS	<1.2	<5.01	<12.0	<7.52	<1.20
2,2,4-Trimethylpentane	ug/m ³	<4.67	NS	NS	<3.89	162	<5.84	<0.934
2-Butanone (MEK)	ug/m ³	NS	NS	<24	<6.13	<14.7	<9.20	1.97
Acetone*	ug/m ³	<11.9	NS	<19	<9.91	<23.8	<14.8	4.68
Benzene	ug/m ³	<3.19	NS	3.30	2.85	28.6	4.82	0.649
Carbon Disulfide*	ug/m ³	<3.11	NS	<6.2	<2.59	<6.23	<3.89	<0.623
Chloroform	ug/m ³	6.64	NS	3.90	7.81	12	8.59	4.8
Chloromethane	ug/m ³	<2.07	NS	<0.83	<1.72	<4.13	<2.58	<0.413
cis-1,2-Dichloroethene	ug/m ³	167	161	88	197	171	107	69
Dichlorodifluoromethane	ug/m ³	<4.94	NS	2.20	<4.12	<9.89	<6.18	2.29
Ethanol	ug/m ³	<47.1	NS	<15	<39.2	<94.2	<58.8	<9.42
Isopropyl Alcohol	ug/m ³	<6.15	NS	<20	<5.11	<1.23	<7.67	<1.23
Methylene Chloride	ug/m ³	<8.69	NS	<6.9	<7.23	<17.4	<10.8	3.79
n-Hexane	ug/m ³	<3.52	NS	<28	<2.94	437	<4.41	<0.705
Tertiary butyl Alcohol	ug/m ³	7.58	NS	NS	<6.31	<15.2	<9.46	<1.52
Tetrachloroethene	ug/m ³	176	342	190	390	285	160	106
Tetrahydrofuran	ug/m ³	<7.37	NS	<5.9	<6.13	<14.7	<9.20	2.73
Toluene	ug/m ³	<3.77	NS	2.50	<3.14	107	<4.71	3.28
trans-1,2-Dichloroethene	ug/m ³	<3.96	<5.67	<0.79	<3.3	<7.93	<4.96	<0.793
Trichloroethene	ug/m ³	1,840	2,290	1,200	1810	2150	2060	1010
Naphthalene	ug/m ³	NS	NS	NS	NS	NS	NS	5.82
Trichlorofluoromethane	ug/m ³	<5.62	NS	<4.5	<4.68	<11.2	<7.02	1.25
Total VOCs	ug/m ³	2,949	4,640	2,185	3,025	4,488	3,315	1,169

Notes:

- 1) -- = Non-existent data dependent on laboratory specific analyte list
- 2) * = As reported by laboratory this analyte is common laboratory
- 3) ug/m3 = micrograms per cubic meter
- 4) ppm = parts-per-million
- 5) NS = Not Sampled
- 6) **Bold** = Analyte detected in sample
- 7) -- = Non-existent data dependent on laboratory specific analyte list

Table 1- Summary O&M Air Sample
Analytical Data
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	SSD Influent					
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	3/18/2024
		After system restart 5 days later	2021 Q3 Sampling Event	2021 Q4 Sampling Event	2022 Q1 Sampling Event	2022 Q3 Sampling Event	2024 Q1 Sampling Event
	LAB SAMPLE ID	L2134418-02	L2150935-02	22A0162-02	L2215966-02	L2239902-02	L2415720-02
ANALYTE	PID READING (ppm)	0.7	ND	ND	ND	ND	9.0
VOCs TO-15	Units						
1,1,1-Trichloroethane	ug/m ³	<1.09	NS	<1.1	<1.09	<1.09	<1.09
1,2,4-Trimethylbenzene	ug/m ³	<0.983	NS	3.9	<0.983	31.4	16.3
1,4-Dichlorobenzene	ug/m ³	<1.2	NS	<1.2	<1.2	<1.2	<1.20
2,2,4-Trimethylpentane	ug/m ³	<0.934	NS	NS	<0.934	38.6	1.51
2-Butanone (MEK)	ug/m ³	NS	NS	<24	<1.47	2.85	2.1
Acetone*	ug/m ³	2.52	NS	<19	<2.38	<2.38	5.3
Benzene	ug/m ³	0.99	NS	1.1	<0.639	31.3	1.22
Carbon Disulfide*	ug/m ³	<0.623	NS	<6.2	<0.623	<0.623	<0.623
Chloroform	ug/m ³	<0.977	NS	<0.98	<0.977	<0.977	<0.977
Chloromethane	ug/m ³	0.85	NS	<0.83	0.733	0.69	0.715
cis-1,2-Dichloroethene	ug/m ³	4.80	3.89	1.8	<0.793	4.6	<0.793
Dichlorodifluoromethane	ug/m ³	2.24	NS	2.2	2.18	2.24	2.24
Ethanol	ug/m ³	<9.42	NS	20	<9.42	46.7	14.4
Isopropyl Alcohol	ug/m ³	<1.23	NS	<20	<1.23	<1.23	<1.23
Methylene Chloride	ug/m ³	<1.74	NS	<6.9	<1.74	2.13	<1.74
n-Hexane	ug/m ³	<0.705	NS	<28	<0.705	60.6	2.29
Tertiary butyl Alcohol	ug/m ³	<1.52	NS	NS	<1.52	<1.52	<1.52
Tetrachloroethene	ug/m ³	5.34	24.3	15	1.8	37.4	1.64
Tetrahydrofuran	ug/m ³	<1.47	NS	11	<1.47	<1.47	3.01
Toluene	ug/m ³	1.84	NS	4.7	0.874	202	8.4
trans-1,2-Dichloroethene	ug/m ³	<0.793	<0.793	<0.79	<0.793	<0.793	<0.793
Trichloroethene	ug/m ³	82.20	101	6.3	15.4	120	13.2
Naphthalene	ug/m ³	NS	NS	NS	NS	NS	5.14
Trichlorofluoromethane	ug/m ³	<1.12	NS	<4.5	<1.12	1.16	<1.12
Total VOCs	ug/m³	113	130	123	36	587	83

Notes:

1) -- = Non-existent data dependent on laboratory specific analyte list

2) * = As reported by laboratory this analyte is common laboratory

3) ug/m3 = micrograms per cubic meter

4) ppm = parts-per-million

5) NS = Not Sampled

6) **Bold** = Analyte detected in sample

7) -- = Non-existent data dependent on laboratory specific analyte list

Table 1- Summary O&M Air Sample
Analytical Data
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	Total Effluent						
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	10/25/2023	3/18/2024
		After system restart 5 days later	2021 Q3 Sampling Event	2021 Q4 Sampling Event	2022 Q1 Sampling Event	2022 Q3 Sampling Event	2023 Q4 Sampling Event	2024 Q1 Sampling Event
	LAB SAMPLE ID	L1906089-05	L2150935-01	22A0162-01	L2215966-01	L2239902-01	L2363961-01	L2415720-03
ANALYTE	PID READING (ppm)	ND	ND	ND	ND	ND	ND	ND
VOCs TO-15	Units							
1,1,1-Trichloroethane	ug/m ³	<1.09	NS	<1.1	<1.09	<6.82	<3.64	<1.09
1,2,4-Trimethylbenzene	ug/m ³	<0.983	NS	<0.98	1.2	<6.15	<3.28	<0.983
1,4-Dichlorobenzene	ug/m ³	<1.2	NS	<1.2	<1.2	<7.52	<4.01	<1.20
2,2,4-Trimethylpentane	ug/m ³	<0.934	NS	NS	<0.934	<5.84	<3.12	<0.934
2-Butanone (MEK)	ug/m ³	<1.47	NS	<24	<1.47	<9.20	<4.93	1.7
Acetone*	ug/m ³	<2.38	NS	<19	<2.38	<14.8	<7.91	<2.38
Benzene	ug/m ³	0.64	NS	<0.64	<0.639	<3.99	<2.13	<0.639
Carbon Disulfide*	ug/m ³	<0.623	NS	<6.2	<0.623	<3.89	<2.08	<0.623
Chloroform	ug/m ³	1.88	NS	3.6	2.12	12.6	6.84	3.76
Chloromethane	ug/m ³	0.71	NS	<0.83	0.475	<2.58	<1.38	0.467
cis-1,2-Dichloroethene	ug/m ³	99.5	254	62	42.4	190	99.5	65.4
Dichlorodifluoromethane	ug/m ³	2.36	NS	1.8	1.45	<6.18	<3.30	1.79
Ethanol	ug/m ³	9.52	NS	<15	<9.42	<58.8	<31.5	12.1
Isopropyl Alcohol	ug/m ³	<1.23	NS	<20	<1.23	<7.67	<4.10	7.57
Methylene Chloride	ug/m ³	<1.74	NS	<6.9	<1.74	<10.8	<5.80	<1.74
n-Hexane	ug/m ³	1.71	NS	<28	<0.705	<4.41	<2.35	<0.705
Tertiary butyl Alcohol	ug/m ³	<1.52	NS	NS	<1.52	<9.46	<5.06	2.94
Tetrachloroethene	ug/m ³	1.78	<1.36	<1.4	<1.36	12.5	<4.52	<1.36
Tetrahydrofuran	ug/m ³	<1.47	NS	<5.9	1.61	<9.20	<4.93	<1.47
Toluene	ug/m ³	<0.754	NS	<0.75	1.03	6.63	<2.51	<0.754
trans-1,2-Dichloroethene	ug/m ³	3.45	2.62	<0.79	<0.793	<4.96	<2.64	<0.793
Trichloroethene	ug/m ³	11.0	<1.07	<1.1	<1.07	2830	1380	591
Naphthalene	ug/m ³	NS	NS	NS	NS	NS	NS	2.11
Trichlorofluoromethane	ug/m ³	1.84	NS	<4.5	<1.12	<7.02	<3.75	<1.12
Total VOCs	ug/m³	142	258	137	64	3,141	1,538	697

Notes:

- 1) -- = Non-existent data dependent on laboratory specific analyte list
- 2) * = As reported by laboratory this analyte is common laboratory
- 3) ug/m3 = micrograms per cubic meter
- 4) ppm = parts-per-million
- 5) NS = Not Sampled
- 6) **Bold** = Analyte detected in sample
- 7) -- = Non-existent data dependent on laboratory specific analyte list

Table 2 - Summary of Mass Removal
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	SVE Influent						
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	10/25/2023	3/18/2024
	LAB SAMPLE ID	L2134418-01	L2150935-03	22A0162-03	L2215966-03	L2239902-03	L2363961-02	L2415720-01
ANALYTE	Flow Rate (CFM)	370	468	410	380	341	416	446
VOCs TO-15	Units							
1,1,1-Trichloroethane	lbs/hr	0.000004	0.000000	0.000002	0.000003	0.000007	0.000005	0.000001
1,2,4-Trimethylbenzene	lbs/hr	0.000003	0.000000	0.000007	0.000003	0.000086	0.000005	0.000016
1,4-Dichlorobenzene	lbs/hr	0.000004	0.000000	0.000001	0.000004	0.000008	0.000006	0.000001
2,2,4-Trimethylpentane	lbs/hr	0.000003	0.000000	0.000000	0.000003	0.000207	0.000005	0.000001
2-Butanone (MEK)	lbs/hr	0.000000	0.000000	0.000018	0.000004	0.000009	0.000007	0.000003
Acetone	lbs/hr	0.000008	0.000000	0.000015	0.000007	0.000015	0.000012	0.000008
Benzene	lbs/hr	0.000002	0.000000	0.000005	0.000004	0.000037	0.000008	0.000001
Carbon Disulfide	lbs/hr	0.000002	0.000000	0.000005	0.000002	0.000004	0.000003	0.000001
Chloroform	lbs/hr	0.000009	0.000000	0.000006	0.000011	0.000015	0.000013	0.000008
Chloromethane	lbs/hr	0.000001	0.000000	0.000001	0.000001	0.000003	0.000002	0.000000
cis-1,2-Dichloroethene	lbs/hr	0.000231	0.000282	0.000135	0.000280	0.000218	0.000167	0.000115
Dichlorodifluoromethane	lbs/hr	0.000003	0.000000	0.000003	0.000003	0.000006	0.000005	0.000004
Ethanol	lbs/hr	0.000033	0.000000	0.000012	0.000028	0.000060	0.000046	0.000008
Isopropyl Alcohol	lbs/hr	0.000004	0.000000	0.000015	0.000004	0.000001	0.000006	0.000001
Methylene Chloride	lbs/hr	0.000006	0.000000	0.000005	0.000005	0.000011	0.000008	0.000006
n-Hexane	lbs/hr	0.000002	0.000000	0.000022	0.000002	0.000558	0.000003	0.000001
Tertiary butyl Alcohol	lbs/hr	0.000011	0.000000	0.000000	0.000004	0.000010	0.000007	0.000001
Tetrachloroethene	lbs/hr	0.000244	0.000600	0.000292	0.000555	0.000364	0.000249	0.000177
Tetrahydrofuran	lbs/hr	0.000005	0.000000	0.000005	0.000004	0.000009	0.000007	0.000005
Toluene	lbs/hr	0.000003	0.000000	0.000004	0.000002	0.000137	0.000004	0.000005
trans-1,2-Dichloroethene	lbs/hr	0.000003	0.000005	0.000001	0.000002	0.000005	0.000004	0.000001
Trichloroethene	lbs/hr	0.002550	0.004014	0.001843	0.002576	0.003350	0.003210	0.001687
Naphthalene	lbs/hr	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000010
Trichlorofluoromethane	lbs/hr	0.000004	0.000000	0.000003	0.000003	0.000007	0.000005	0.000002
Total Mass Removal Rate	lbs/hr	0.00314	0.00490	0.00240	0.00351	0.00513	0.00379	0.00206

Notes:

1) Compliance with Air Requirements = Per DEC memorandum issued 2/28/2003, remediation systems that have the potential to discharged greater than 0.5 lb/hr shall require pollution controls.

2) Mass Removal = VOC conc. ug/m3*flow rate (CFM)*(60 mins/hr)/(453,590,000 ug/lb)/(35.32 ft3/m3)

3) ug/m3 = micrograms per cubic meter

4) ppm = parts-per-million

5) **Bold** = Analyte detected in sample

6) Effluent samples were taken from the total effluent of both systems

Table 2 - Summary of Mass Removal
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	SSD Influent					
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	3/18/2024
	LAB SAMPLE ID	L2134418-02	L2150935-02	22A0162-02	L2215966-02	L2239902-02	L2415720-02
ANALYTE	Flow Rate (CFM)	324	299	295	291	292	249
VOCs TO-15	Units						
1,1,1-Trichloroethane	lbs/hr	0.000001	0.000000	0.000001	0.000001	0.000001	0.000001
1,2,4-Trimethylbenzene	lbs/hr	0.000001	0.000000	0.000004	0.000001	0.000034	0.000015
1,4-Dichlorobenzene	lbs/hr	0.000001	0.000000	0.000001	0.000001	0.000001	0.000001
2,2,4-Trimethylpentane	lbs/hr	0.000001	0.000000	0.000000	0.000001	0.000042	0.000001
2-Butanone (MEK)	lbs/hr	0.000000	0.000000	0.000013	0.000001	0.000003	0.000002
Acetone	lbs/hr	0.000003	0.000000	0.000010	0.000001	0.000001	0.000005
Benzene	lbs/hr	0.000001	0.000000	0.000001	0.000000	0.000034	0.000001
Carbon Disulfide	lbs/hr	0.000000	0.000000	0.000003	0.000000	0.000000	0.000000
Chloroform	lbs/hr	0.000001	0.000000	0.000001	0.000001	0.000001	0.000000
Chloromethane	lbs/hr	0.000001	0.000000	0.000000	0.000001	0.000001	0.000001
cis-1,2-Dichloroethene	lbs/hr	0.000006	0.000004	0.000002	0.000000	0.000005	0.000000
Dichlorodifluoromethane	lbs/hr	0.000003	0.000000	0.000002	0.000002	0.000002	0.000002
Ethanol	lbs/hr	0.000006	0.000000	0.000022	0.000005	0.000051	0.000013
Isopropyl Alcohol	lbs/hr	0.000001	0.000000	0.000011	0.000001	0.000001	0.000001
Methylene Chloride	lbs/hr	0.000001	0.000000	0.000004	0.000001	0.000002	0.000001
n-Hexane	lbs/hr	0.000000	0.000000	0.000015	0.000000	0.000066	0.000002
Tertiary butyl Alcohol	lbs/hr	0.000001	0.000000	0.000000	0.000001	0.000001	0.000001
Tetrachloroethene	lbs/hr	0.000006	0.000027	0.000017	0.000002	0.000041	0.000002
Tetrahydrofuran	lbs/hr	0.000001	0.000000	0.000012	0.000001	0.000001	0.000003
Toluene	lbs/hr	0.000002	0.000000	0.000005	0.000001	0.000021	0.000008
trans-1,2-Dichloroethene	lbs/hr	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Trichloroethene	lbs/hr	0.000100	0.000113	0.000007	0.000017	0.000131	0.000012
Naphthalene	lbs/hr	0.000000	0.000000	0.000000	0.000000	0.000000	0.000005
Trichlorofluoromethane	lbs/hr	0.000001	0.000000	0.000002	0.000001	0.000001	0.000001
Total Mass Removal Rate	lbs/hr	0.00014	0.00015	0.00014	0.00004	0.00064	0.00008

Notes:

1) Compliance with Air Requirements = Per DEC memorandum issued 2/28/2003, remediation systems that have the potential to discharged greater than 0.5 lb/hr shall require pollution controls.

2) Mass Removal = VOC conc. ug/m³*flow rate (CFM)*(60 mins/hr)/(453,590,000 ug/lb)/(35.32 ft³/m³)

3) ug/m³ = micrograms per cubic meter

4) ppm = parts-per-million

5) **Bold** = Analyte detected in sample

6) Effluent samples were taken from the total effluent of both systems

Table 2 - Summary of Mass Removal
Former Ozone Industries, Inc. Site,
Ozone Park, Queens, NY

	LOCATION	Total Effluent						
	SAMPLING DATE	6/21/2021	9/20/2021	12/28/2021	3/28/2022	7/26/2022	10/25/2023	3/18/2024
	LAB SAMPLE ID	L1906089-05	L2150935-01	22A0162-01	L2215966-01	L2239902-01	L2363961-01	L2363961-02
ANALYTE	Flow Rate (CFM)	694	767	705	671	633	416	446
VOCs TO-15	Units							
1,1,1-Trichloroethane	lbs/hr	0.000001	0.000000	0.000001	0.000001	0.000008	0.000003	0.000001
1,2,4-Trimethylbenzene	lbs/hr	0.000001	0.000000	0.000001	0.000003	0.000007	0.000003	0.000001
1,4-Dichlorobenzene	lbs/hr	0.000002	0.000000	0.000002	0.000002	0.000009	0.000003	0.000001
2,2,4-Trimethylpentane	lbs/hr	0.000001	0.000000	0.000000	0.000001	0.000007	0.000002	0.000001
2-Butanone (MEK)	lbs/hr	0.000002	0.000000	0.000032	0.000002	0.000011	0.000004	0.000003
Acetone	lbs/hr	0.000003	0.000000	0.000025	0.000003	0.000018	0.000006	0.000002
Benzene	lbs/hr	0.000002	0.000000	0.000001	0.000001	0.000005	0.000002	0.000001
Carbon Disulfide	lbs/hr	0.000001	0.000000	0.000008	0.000001	0.000005	0.000002	0.000001
Chloroform	lbs/hr	0.000005	0.000000	0.000010	0.000005	0.000030	0.000011	0.000006
Chloromethane	lbs/hr	0.000002	0.000000	0.000001	0.000001	0.000003	0.000001	0.000001
cis-1,2-Dichloroethene	lbs/hr	0.000259	0.000730	0.000164	0.000107	0.000451	0.000155	0.000109
Dichlorodifluoromethane	lbs/hr	0.000006	0.000000	0.000005	0.000004	0.000007	0.000003	0.000003
Ethanol	lbs/hr	0.000025	0.000000	0.000020	0.000012	0.000070	0.000025	0.000020
Isopropyl Alcohol	lbs/hr	0.000002	0.000000	0.000026	0.000002	0.000009	0.000003	0.000013
Methylene Chloride	lbs/hr	0.000002	0.000000	0.000009	0.000002	0.000013	0.000005	0.000001
n-Hexane	lbs/hr	0.000004	0.000000	0.000037	0.000001	0.000005	0.000002	0.000001
Tertiary butyl Alcohol	lbs/hr	0.000002	0.000000	0.000000	0.000002	0.000011	0.000004	0.000005
Tetrachloroethene	lbs/hr	0.000005	0.000002	0.000002	0.000002	0.000030	0.000004	0.000001
Tetrahydrofuran	lbs/hr	0.000002	0.000000	0.000008	0.000004	0.000011	0.000004	0.000001
Toluene	lbs/hr	0.000001	0.000000	0.000001	0.000003	0.000016	0.000002	0.000001
trans-1,2-Dichloroethene	lbs/hr	0.000009	0.000008	0.000001	0.000001	0.000006	0.000002	0.000001
Trichloroethene	lbs/hr	0.000029	0.000002	0.000001	0.000001	0.006713	0.002150	0.000987
Naphthalene	lbs/hr	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000004
Trichlorofluoromethane	lbs/hr	0.000005	0.000000	0.000006	0.000001	0.000008	0.000003	0.000001
Total Mass Removal Rate	lbs/hr	0.00037	0.00074	0.00036	0.00016	0.00745	0.00240	0.00116

Notes:

1) Compliance with Air Requirements = Per DEC memorandum issued 2/28/2003, remediation systems that have the potential to discharged greater than 0.5 lb/hr shall require pollution controls.

2) Mass Removal = VOC conc. ug/m3*flow rate (CFM)*(60 mins/hr)/(453,590,000 ug/lb)/(35.32 ft3/m3)

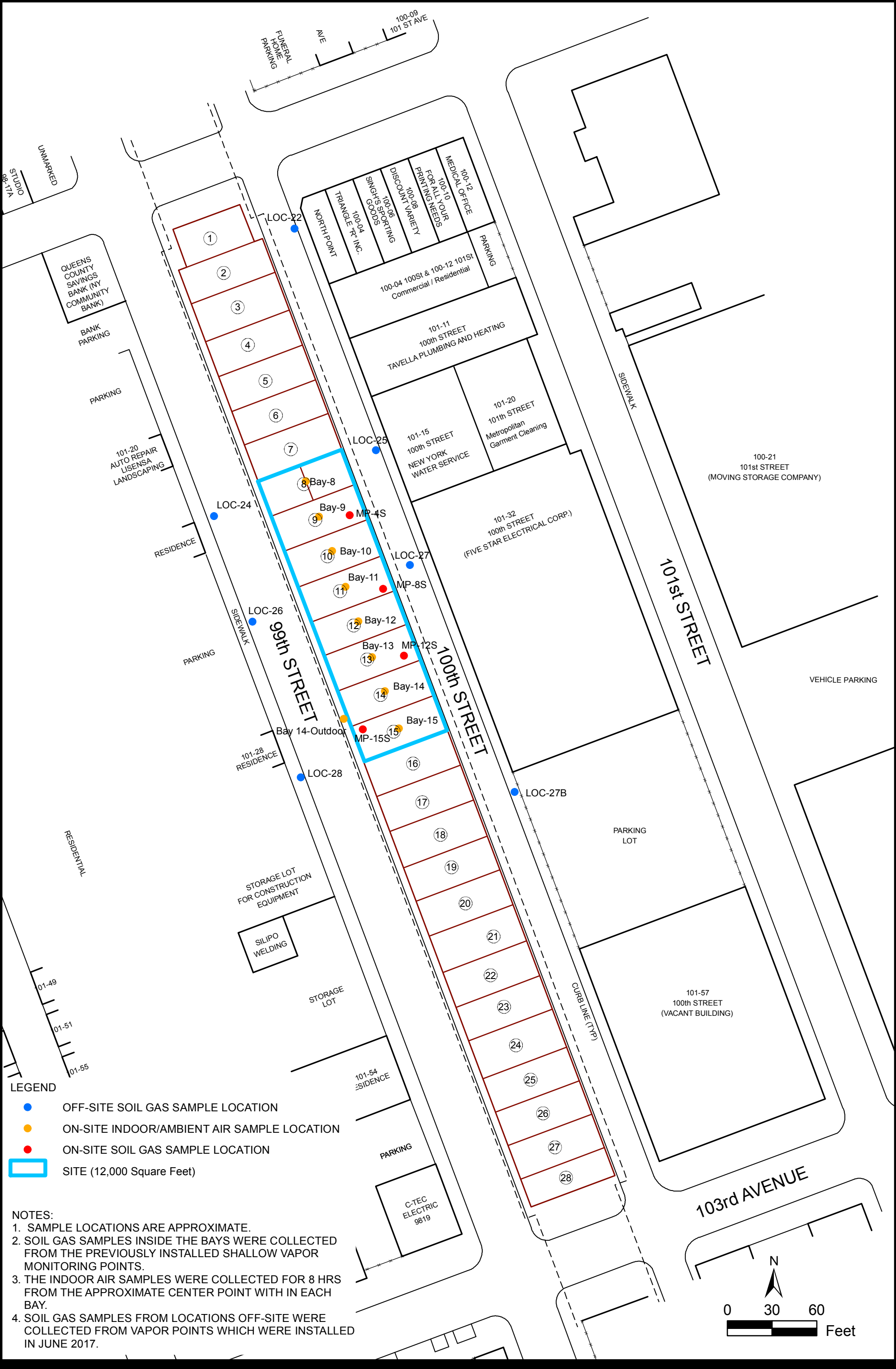
3) ug/m3 = micrograms per cubic meter

4) ppm = parts-per-million

5) **Bold** = Analyte detected in sample

6) Effluent samples were taken from the total effluent of both systems

FIGURES



SITE and LOCATION OF SAMPLING POINTS FORMER OZONE INDUSTRIES, INC. OZONE PARK, NEW YORK, NY
Project No.: 60527976.1 Date: 2017-09-18

Appendix A

System Summary Tables

Monitoring Point Summary
Former Ozone Industries, Inc.
Ozone Park, Queens NY

DATE OF O&M VISIT	12/13/23	03/18/24	05/13/24
TYPE OF SYSTEM CHECK	Full	Full	Full
FIELD TECHNICIAN	CG	CG	CG
Monitoring Well Network			
Pressure ("H ₂ O)			
MP-1S	0.00	-0.10	0.50
MP-1D	0.00	-0.10	0.20
MP-2S	0.00	0.50	0.40
MP-2D	0.00	0.30	0.10
MP-3S	NM	NM	NM
MP-3D	NM	NM	NM
MP-4S	NM	NM	NM
MP-4D	NM	NM	NM
MP-5S	0.00	NM	0.40
MP-5D	0.00	NM	0.20
MP-6S	0.00	NM	0.20
MP-6D	0.00	NM	0.10
MP-7S	NM	NM	0.60
MP-7D	NM	NM	0.20
MP-8S	NM	NM	0.30
MP-8D	NM	NM	0.10
MP-9S	0.00	0.30	0.40
MP-9M	0.00	0.70	0.20
MP-9D	0.00	0.80	0.00
MP-10S	0.00	0.40	0.30
MP-10M	0.00	-0.40	0.20
MP-10D	0.00	-0.90	0.10
MP-11S	NM	NM	0.20
MP-11D	NM	NM	0.10
MP-12S	NM	NM	0.30
MP-12D	NM	NM	0.10
MP-13S	0.00	0.20	0.30
MP-13D	0.00	0.50	0.10
MP-14S	0.00	0.20	0.60
MP-14D	0.00	0.60	0.20
MP-15S	0.00	0.20	0.40
MP-15D	0.00	0.60	0.10
MP-16S	0.00	0.20	0.30
MP-16D	0.00	0.40	0.00

Notes

NM - Not Measureable (Due to faulty monitoring equipment, inaccessability, etc.)

"H₂O - Inches of water column

SVE System Summary
Former Ozone Industries, Inc.
Ozone Park, Queens NY

DATE OF O&M VISIT		01/04/22	03/28/22	05/23/22	07/26/22	09/26/22	12/20/22	02/06/23	05/03/23	10/25/23	12/13/23	03/18/24	05/13/24
SVE System Status (Up / Down / Off)													
	Status On Arrival	UP	Down	Down	Up	Up	Down	Up	Up	Up	Up	Up	Up
	Overall Up Time Since Start Up	100%	100%	100%	100%	100%	100%	100%	NM	100%	100%	100%	100%
System Status Between O&M Events													
	On Arrival												
	% Up Time	100%	91%	20%	100%	100%	21%	100%	NM	100%	100%	100%	100%
Soil Vapor Extraction Blower (B-1)													
	Days Between O&M Events	56	83	56	64	62	85	48	86	175	49	96	56
	Days Of Operations	202	285	341	405	467	552	600	686	861	910	1006	1062
	SVE Blower Operation												
	Hour Meter (hrs)	20,984.0	22,802.5	23,074.9	24,612.4	26,098.1	26,522.9	27,674.0	NM	30,123.0	31,255.8	32,471.8	33,851.0
	Hours Between Events	1,347.0	1,818.5	272.4	1,537.5	1,485.7	424.8	1,151.1	NM	2,449.0	1,132.8	2,348.8	2,595.2
	Time Between Events (hrs)	1,343.5	1,993.0	1,343.6	1,535.4	1,488.6	2,038.7	1,152.8	2,063.0	4,202.1	1,176.9	2,303.0	1,347.0
	Time Since Restart (hrs)	4,848.0	6,841.0	8,184.6	9,720.0	11,208.6	13,247.3	14,400.0	16,463.0	20,665.1	21,842.0	24,145.0	25,492.0
	VFD Frequency (Hz)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	NM	60.0	60.0	60.0	60.0
	VFD Load (Amps)	56.5	55.7	53.1	51.8	51.9	55.2	55.0	NM	53.4	54.8	53.6	53.7
Vacuum ("H ₂ O)													
	SVE-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-11	-3.0	-3.0	-3.1	-3.1	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-10	-3.0	-3.0	-3.1	-3.1	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-15	-4.9	-4.7	-4.8	-4.9	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-13	-4.7	-4.7	-4.8	-4.9	NM	NM	NM	NM	NM	NM	-9.0	NM
	SVE-14	-9.0	-5.0	-5.0	-4.9	NM	NM	NM	NM	NM	NM	-8.0	NM
	SVE-16	-3.6	-3.5	-3.6	-3.5	NM	NM	NM	NM	NM	NM	-11.0	NM
	SVE-18	-3.2	-3.4	-3.5	-3.4	NM	NM	NM	NM	NM	NM	-20.0	NM
	SVE-17	-2.0	-2.0	-2.0	-2.0	NM	NM	NM	NM	NM	NM	-8.0	NM
	SVE-12	-4.0	-4.0	-6.1	-4.0	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-9	-9.1	-9.0	-9.0	-8.9	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-21	-8.6	-8.5	-8.4	-8.4	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-3	-3.7	-3.7	-3.7	-3.8	NM	NM	NM	NM	NM	NM	-10.0	85.2
	SVE-1	-10.8	-10.5	-10.3	-10.0	NM	NM	NM	NM	NM	NM	-10.0	NM
	SVE-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-20	-8.5	-8.5	-8.2	-8.0	NM	NM	NM	NM	NM	NM	NM	NM
	SVE-19	-2.0	-2.0	-2.0	-2.0	NM	NM	NM	NM	NM	NM	NM	NM
	SVE-23	-1.0	-1.0	-1.0	-1.2	NM	NM	NM	NM	NM	NM	NM	NM
	SVE-22	-0.9	-0.9	-0.9	-1.0	NM	NM	NM	NM	NM	NM	NM	NM
	SVE-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
	SVE-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM
Soil Vapor Velocity (ft/min)													
	SVE-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-11	1251	1240	1235	1250	1587.6	1368	1437	NM	1400	1391	1307.4	1445
	SVE-10	1996	1939	1951	1975	1999.2	1211	1563	NM	1510	1605	1090.7	378.3
	SVE-15	1480	1456	1459	1465	1575.84	1499	1575	NM	1498	1479	2885	1435
	SVE-13	2531	2520	2539	2542	2719.5	2495	2722	NM	2632	2259	1286	286.1
	SVE-14	1598	1556	1561	1552	1249.5	110	980	NM	907	995	1245.5	1711
	SVE-16	1295	1275	1279	1282	1117.2	1047	1115	NM	1005	1002	1039.6	1135
	SVE-18	500	490	510	598	761.46	673	698	NM	651	708	1086.6	496.8
	SVE-17	2097	1998	2013	2067	1969.8	1769	1537	NM	1600	1565	442	897.1
	SVE-12	3584	3483	3507	3585	3519.18	3030	3538	NM	3439	3412	242.2	852.4
	SVE-9	3000	2995	3004	3016	3822	3028	3942	NM	3890	3799	431.1	426.6
	SVE-21	2511	2498	2687	2691	1705.2	1386	1456	NM	1455	1465	5222.3	1070.9
	SVE-3	4097	4007	4019	4023	5562.48	4674	4955	NM	4877	4897	4352.1	580.4
	SVE-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-20	2533	2510	2505	2610	3125.22	3018	3215	NM	3160	3172	390.9	2836
	SVE-19	1002	997	1012	1047	984.9	915	1010	NM	1007	1068	1053.3	940
	SVE-23	700	695	718	828	696.78	605	492	NM	452	502	680.2	600
	SVE-22	310	304	331	354	255.78	264	282	NM	216	219	3481.9	294.4
	SVE-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SVE-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SVE System Summary
Former Ozone Industries, Inc.
Ozone Park, Queens NY

DATE OF O&M VISIT	01/04/22	03/28/22	05/23/22	07/26/22	09/26/22	12/20/22	02/06/23	05/03/23	10/25/23	12/13/23	03/18/24	05/13/24
SVE System Status (Up / Down / Off)												
Status On Arrival	UP	Down	Down	Up	Up	Down	Up	Up	Up	Up	Up	Up
Overall Up Time Since Start Up	100%	100%	100%	100%	100%	100%	100%	NM	100%	100%	100%	100%
Soil Vapor Flow Rate (ft ³ /min)												
SVE-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-11	27.3	27.1	26.9	27.3	34.6	29.8	31.4	NM	30.5	30.3	28.5	31.5
SVE-10	43.5	42.3	42.6	43.1	43.6	26.4	34.1	NM	32.9	35.0	23.8	8.3
SVE-15	32.3	31.8	31.8	32.0	34.4	32.7	34.4	NM	32.7	32.3	62.9	31.3
SVE-13	55.2	55.0	55.4	55.5	59.3	54.4	59.4	NM	57.4	49.3	28.1	6.2
SVE-14	34.9	33.9	34.1	33.9	27.3	2.4	21.4	NM	19.8	21.7	27.2	37.3
SVE-16	28.3	27.8	27.9	27.9	24.4	22.8	24.3	NM	21.9	21.9	22.7	24.8
SVE-18	10.9	10.7	11.1	13.0	16.6	14.7	15.2	NM	14.2	15.4	23.7	10.8
SVE-17	45.7	43.6	43.9	45.1	43.0	38.6	33.5	NM	34.9	34.1	9.6	19.6
SVE-12	78.2	76.0	76.5	78.2	76.8	66.1	77.2	NM	75.0	74.4	5.3	18.6
SVE-9	65.4	65.3	65.5	65.8	83.4	66.1	86.0	NM	84.9	82.9	9.4	9.3
SVE-21	54.8	54.5	58.6	58.7	37.2	30.2	31.8	NM	31.7	32.0	113.9	23.4
SVE-3	89.4	87.4	87.7	87.8	121.4	102.0	108.1	NM	106.4	106.8	94.9	12.7
SVE-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-20	55.3	54.8	54.7	56.9	68.2	65.8	70.1	NM	68.9	69.2	8.5	61.9
SVE-19	21.9	21.8	22.1	22.8	21.5	20.0	22.0	NM	22.0	23.3	23.0	20.5
SVE-23	15.3	15.2	15.7	18.1	15.2	13.2	10.7	NM	9.9	11.0	14.8	13.1
SVE-22	6.8	6.6	7.2	7.7	5.6	5.8	6.2	NM	4.7	4.8	76.0	6.4
SVE-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs (ppm_v)												
SVE-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SVE-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVE Sample Ports												
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOCs (ppm_v)												
SVE-SP01	NM	NM	NM	10.0	0.8	0.7	8.6	NM	0.6	0.7	0.6	0.2
SVE-SP04	NM	NM	NM	5.4	0.5	0.5	13.0	NM	12.0	18.5	10.1	0.2

- Notes:
- 1) Soil Vapor Velocity taken from individual SVE Wells is from a 2.0-inch diameter pipe.
 - 2) Soil Vapor Velocity taken with pitot tube assuming soil vapor temp of 65 deg F, from SVE-SP-03, which is from a 4.0-inch diameter pipe.
 - 3) Soil Vapor Velocity taken from SVE-SP-04 is from a 3.0-inch diameter pipe
 - 4) Dilution is calculated by subtracting Blower Inlet and Discharge Soil Vapor Flow Rate.
 - 5) Mass removal based following calculation: #/hr = Flow Rate x 111 (MW of Benzene) x VOC x 1.53x10⁻⁷) .
 - 6) NA - Not Applicable (Point removed from monitoring program), NM - Not Measureable (Due to faulty monitoring equipment, inaccessability, etc.)

SSD System Summary
Former Ozone Industries, Inc.
Ozone Park, Queens NY

DATE OF O&M VISIT	01/04/22	03/28/22	05/23/22	07/26/22	09/26/22	12/20/22	02/06/23	05/03/23	10/25/23	12/13/23	03/18/24	05/13/24
SSD System Status (Up / Down / Off)												
Status On Arrival	Up	Down	Down	Up	Up	Up	Up	Up	Up	Up	Up	Up
Overall Up Time Since Restart	91%	93%	81%	84%	86%	88%	89%	78%	84%	85%	86%	87%
System Operation Status Between O&M Events												
On Arrival												
% Up Time	100%	100%	20%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sub Slab Depression Blower (B-2)												
Days Between O&M Events	56	83	56	64	62	85	48	86	261	49	96	56
Days Of Operations	202	285	341	405	467	552	600	686	861	735	957	791
SSD Blower Operation												
Hour Meter (hrs)	26,060.6	28,048.0	28,320.5	29,858.1	31,343.7	33,385.8	34,535.7	34,536.7	40,823.7	41,956.8	44,278.6	45,620.3
Hours Between Events	1,347.5	1,987.4	272.5	1,537.6	1,485.6	2,042.1	1,149.9	1.0	6,288.0	7,420.1	3,454.9	3,663.5
Time Between Events (hrs)	1,343.6	1,992.9	1,343.5	1,535.6	1,488.5	2,038.9	1,152.6	2,062.9	6,266.0	1,177.2	2,302.8	1,347.0
Time Since Start Up (hrs)	4,846.8	6,839.8	8,183.3	9,718.8	11,207.4	13,246.3	14,398.8	16,461.8	22,727.8	23,904.9	26,207.8	27,554.8
VFD Frequency (Hz)	59.9	59.9	59.0	59.4	59.0	59.0	59.9	59.9	59.0	59.9	59.9	59.9
VFD Load (Amps)	16.3	16.2	15.8	15.4	15.6	16.4	16.5	16.5	16.0	16.3	16.0	16.0
Pressure ("H₂O)												
SSD-1	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.0	NM	-2.0	-2.0	-2.3	NM
SSD-2	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-2.3	NM	-2.2	-2.0	-3.0	NM
SSD-3	-3.5	-3.5	-3.4	-3.4	-3.4	-3.4	-3.0	NM	-3.0	-3.0	-3.4	NM
SSD-4	-3.5	-3.5	-3.4	-3.4	-3.4	-3.4	-3.2	NM	-3.0	-3.0	-3.8	NM
SSD-5	-3.6	-3.5	-3.5	-3.5	-3.5	-3.5	-3.0	NM	-3.0	-3.0	-3.7	NM
SSD-6	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.1	NM	-3.1	-3.1	-3.6	NM
SSD-7	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.2	NM	-3.2	-3.5	-3.7	NM
SSD-8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.4	NM	-3.3	-3.5	-3.5	NM
Soil Vapor Velocity (ft/min)												
SSD-1	2,710	2,643	2,613	2,627	1,107	2,952	2,986	NM	2,884	2,783	218	661
SSD-2	2,689	2,589	2,555	2,561	1,063	2,183	2,814	NM	2,830	2,810	396	717
SSD-3	2,751	2,731	2,725	2,735	1,070	2,833	2,692	NM	2,547	2,438	3,394	906
SSD-4	2,813	2,800	2,786	2,746	992	2,320	2,669	NM	2,588	2,497	2,883	293
SSD-5	2,410	2,400	2,410	2,433	953	2,492	2,392	NM	2,273	2,138	406	322
SSD-6	2,253	2,230	2,221	2,239	830	2,401	768	NM	703	699	2,694	260
SSD-7	2,019	2,100	2,157	2,168	760	2,580	1,652	NM	1,090	1,085	1,076	998
SSD-8	1,810	1,800	1,811	1,901	714	1,972	998	NM	923	998	248	792
Soil Vapor Flow Rate (ft³/min)												
SSD-1	59.12	57.66	57.01	57.31	54.34	64.40	65.14	NM	62.92	60.72	4.75	14.42
SSD-2	58.66	56.48	55.74	55.87	52.18	47.63	61.39	NM	61.74	61.30	8.63	15.64
SSD-3	60.02	59.58	59.45	59.67	52.52	61.81	58.73	NM	55.57	53.19	74.05	19.77
SSD-4	61.37	61.09	60.78	59.91	48.69	50.61	58.23	NM	56.46	54.48	62.90	6.39
SSD-5	52.58	52.36	52.58	53.08	46.78	54.37	52.19	NM	49.59	46.64	8.85	7.03
SSD-6	49.15	48.65	48.45	48.85	40.74	52.38	16.76	NM	15.34	15.25	58.76	5.67
SSD-7	44.05	45.81	47.06	47.30	37.31	56.29	36.04	NM	23.78	23.67	23.48	21.78
SSD-8	39.49	39.27	39.51	41.47	35.05	43.02	21.77	NM	20.14	21.77	5.42	17.29
VOCs (ppm_v)												
SSD-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD-8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NM	0.0	0.0	0.0	0.0
SSD Sample Ports												
VOCs (ppm_v)												
SSD-SP01	2.0	1.4	1.9	0.5	0.2	0.2	15.8	NM	10.0	9.8	9.0	0.0
SSD-SP04	0.0	0.0	0.0	0.0	0.0	0.0	10.4	NM	9.1	9.0	8.7	0.0

- Notes:
- 1) Soil Vapor Velocity taken from individual SSD Wells is from a 2.0-inch diameter pipe.
 - 2) Soil Vapor Velocity taken with pitot tube assuming soil vapor temp of 65 deg F, from SSD SP-03, which is from a 4.0" diameter pipe.
 - 3) Soil Vapor Velocity taken from SSD-SP-04 is from a 3.0-inch diameter pipe.
 - 4) Dilution is calculated by subtracting Blower Inlet and Discharge Soil Vapor Flow Rate.
 - 5) NM - Not Measureable (Due to faulty monitoring equipment, inaccessability, etc.)

Appendix B
System Air Sample Lab Results – March 2024



ANALYTICAL REPORT

Lab Number:	L2415720
Client:	AECOM 250 Apollo Dr. Chelmsford, MA 01824
ATTN:	Raimundo Matos
Phone:	(978) 905-2100
Project Name:	ENDZONE
Project Number:	60671903
Report Date:	04/04/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #A24920).

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



Project Name: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2415720-01	SVE INFLUENT_031824	SOIL_VAPOR	OZONE PARK, NY	03/18/24 11:15	03/22/24
L2415720-02	SSD INFLUENT_031824	SOIL_VAPOR	OZONE PARK, NY	03/18/24 11:25	03/22/24
L2415720-03	TOTAL EFFLUENT_031824	SOIL_VAPOR	OZONE PARK, NY	03/18/24 11:35	03/22/24

Project Name: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

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: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 14, 2024. The canister certification data is provided as an addendum.

L2415720-01 and -03: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2415720-01D and -03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: 04/04/24

AIR

Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-01
 Client ID: SVE INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:15
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/02/24 23:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.464	0.200	--	2.29	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	1.97	1.00	--	4.68	2.38	--		1
Trichlorofluoromethane	0.222	0.200	--	1.25	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	1.09	0.500	--	3.79	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	0.668	0.500	--	1.97	1.47	--		1
cis-1,2-Dichloroethene	17.4	0.200	--	69.0	0.793	--		1



Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-01
 Client ID: SVE INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:15
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.983	0.200	--	4.80	0.977	--		1
Tetrahydrofuran	0.925	0.500	--	2.73	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	0.203	0.200	--	0.649	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	146	0.200	--	785	1.07	--	E	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	0.871	0.200	--	3.28	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	15.6	0.200	--	106	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.337	0.200	--	1.46	0.869	--		1



Project Name: ENDZONE**Lab Number:** L2415720**Project Number:** 60671903**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-01
 Client ID: SVE INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:15
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.45	0.400	--	6.30	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	0.669	0.200	--	2.91	0.869	--		1
4-Ethyltoluene	0.330	0.200	--	1.62	0.983	--		1
1,3,5-Trimethylbenzene	0.450	0.200	--	2.21	0.983	--		1
1,2,4-Trimethylbenzene	1.90	0.200	--	9.34	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
Naphthalene	1.11	0.200	--	5.82	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140



Project Name: ENDZONE**Lab Number:** L2415720**Project Number:** 60671903**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-01 D
 Client ID: SVE INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:15
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 04/03/24 08:42

Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	188	0.667	--	1010	3.58	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	101		60-140

Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-02
 Client ID: SSD INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:25
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/02/24 23:07
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.454	0.200	--	2.24	0.989	--		1
Chloromethane	0.346	0.200	--	0.715	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	7.65	5.00	--	14.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.23	1.00	--	5.30	2.38	--		1
Trichlorofluoromethane	0.206	0.200	--	1.16	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	0.712	0.500	--	2.10	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-02
 Client ID: SSD INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:25
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.02	0.500	--	3.01	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.651	0.200	--	2.29	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.383	0.200	--	1.22	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.304	0.200	--	1.05	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	2.46	0.200	--	13.2	1.07	--		1
2,2,4-Trimethylpentane	0.323	0.200	--	1.51	0.934	--		1
Heptane	0.330	0.200	--	1.35	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	2.23	0.200	--	8.40	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	0.242	0.200	--	1.64	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.878	0.200	--	3.81	0.869	--		1



Project Name: ENDZONE**Lab Number:** L2415720**Project Number:** 60671903**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-02
 Client ID: SSD INFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:25
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.57	0.400	--	15.5	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	1.57	0.200	--	6.82	0.869	--		1
4-Ethyltoluene	0.580	0.200	--	2.85	0.983	--		1
1,3,5-Trimethylbenzene	0.790	0.200	--	3.88	0.983	--		1
1,2,4-Trimethylbenzene	3.31	0.200	--	16.3	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
Naphthalene	0.981	0.200	--	5.14	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140



Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-03
 Client ID: TOTAL EFFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:35
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/02/24 21:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.362	0.200	--	1.79	0.989	--		1
Chloromethane	0.226	0.200	--	0.467	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	6.44	5.00	--	12.1	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	3.08	0.500	--	7.57	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.970	0.500	--	2.94	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	0.575	0.500	--	1.70	1.47	--		1
cis-1,2-Dichloroethene	16.5	0.200	--	65.4	0.793	--		1



Project Name: ENDZONE**Project Number:** 60671903**Lab Number:** L2415720**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-03
 Client ID: TOTAL EFFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:35
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.770	0.200	--	3.76	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	0.216	0.200	--	0.743	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	101	0.200	--	543	1.07	--	E	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



Project Name: ENDZONE**Lab Number:** L2415720**Project Number:** 60671903**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-03

Date Collected: 03/18/24 11:35

Client ID: TOTAL EFFLUENT_031824

Date Received: 03/22/24

Sample Location: OZONE PARK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	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	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	0.503	0.200	--	2.47	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
Naphthalene	0.403	0.200	--	2.11	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: ENDZONE**Lab Number:** L2415720**Project Number:** 60671903**Report Date:** 04/04/24**SAMPLE RESULTS**

Lab ID: L2415720-03 D
 Client ID: TOTAL EFFLUENT_031824
 Sample Location: OZONE PARK, NY

Date Collected: 03/18/24 11:35
 Date Received: 03/22/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/03/24 07:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	110	0.500	--	591	2.69	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	103		60-140



Project Name: ENDZONE

Lab Number: L2415720

Project Number: 60671903

Report Date: 04/04/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/02/24 19:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1903995-4								
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: ENDZONE

Lab Number: L2415720

Project Number: 60671903

Report Date: 04/04/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/02/24 19:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1903995-4								
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: ENDZONE

Lab Number: L2415720

Project Number: 60671903

Report Date: 04/04/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/02/24 19:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1903995-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1903995-3								
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	92		-		70-130	-		
Freon-114	105		-		70-130	-		
Vinyl chloride	94		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethanol	91		-		40-160	-		
Vinyl bromide	74		-		70-130	-		
Acetone	96		-		40-160	-		
Trichlorofluoromethane	95		-		70-130	-		
Isopropanol	89		-		40-160	-		
1,1-Dichloroethene	100		-		70-130	-		
Tertiary butyl Alcohol	97		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	106		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
Freon-113	100		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
2-Butanone	98		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1903995-3								
Ethyl Acetate	104		-		70-130	-		
Chloroform	98		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	89		-		70-130	-		
n-Hexane	99		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	104		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	103		-		70-130	-		
trans-1,3-Dichloropropene	106		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	101		-		70-130	-		
2-Hexanone	110		-		70-130	-		
Dibromochloromethane	111		-		70-130	-		
1,2-Dibromoethane	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1903995-3								
Tetrachloroethene	104		-		70-130	-		
Chlorobenzene	103		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	114		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	109		-		70-130	-		
o-Xylene	106		-		70-130	-		
4-Ethyltoluene	105		-		70-130	-		
1,3,5-Trimethylbenzene	106		-		70-130	-		
1,2,4-Trimethylbenzene	109		-		70-130	-		
Benzyl chloride	108		-		70-130	-		
1,3-Dichlorobenzene	111		-		70-130	-		
1,4-Dichlorobenzene	109		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
1,2,4-Trichlorobenzene	124		-		70-130	-		
Naphthalene	107		-		70-130	-		
Hexachlorobutadiene	119		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1903995-5 QC Sample: L2415720-03 Client ID: TOTAL EFFLUENT_031824						
Dichlorodifluoromethane	0.362	0.361	ppbV	0		25
Chloromethane	0.226	0.224	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	6.44	6.58	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	3.08	3.15	ppbV	2		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	0.970	0.985	ppbV	2		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1903995-5 QC Sample: L2415720-03 Client ID: TOTAL EFFLUENT_031824						
2-Butanone	0.575	0.596	ppbV	4		25
cis-1,2-Dichloroethene	16.5	16.8	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	0.770	0.780	ppbV	1		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.216	0.216	ppbV	0		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	101E	102E	ppbV	8		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1903995-5 QC Sample: L2415720-03 Client ID: TOTAL EFFLUENT_031824						
Toluene	ND	ND	ppbV	NC		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.503	0.497	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	0.403	0.399	ppbV	1		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ENDZONE

Project Number: 60671903

Lab Number: L2415720

Report Date: 04/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1903995-5 QC Sample: L2415720-03 Client ID: TOTAL EFFLUENT_031824						
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1903995-5 QC Sample: L2415720-03 Client ID: TOTAL EFFLUENT_031824						
Trichloroethene	110	114	ppbV	4		25

Project Name: ENDZONE

Project Number: 60671903

Serial_No:04042416:58
Lab Number: L2415720

Report Date: 04/04/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2415720-01	SVE INFLUENT_031824	2636	6.0L Can	03/14/24	457748	L2413189-03	Pass	-29.4	-6.6	-	-	-	-
L2415720-02	SSD INFLUENT_031824	2845	6.0L Can	03/14/24	457748	L2413189-03	Pass	-29.5	-4.4	-	-	-	-
L2415720-03	TOTAL EFFLUENT_031824	3482	6.0L Can	03/14/24	457748	L2413189-06	Pass	-29.5	-5.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/12/24 19:38
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
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
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		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
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		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
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		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
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		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
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		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
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		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
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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		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
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2413189**Project Number:** CANISTER QC BAT**Report Date:** 04/04/24**Air Canister Certification Results**

Lab ID: L2413189-03

Date Collected: 03/11/24 10:00

Client ID: CAN 622 SHELF 38

Date Received: 03/12/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/12/24 19:38
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		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	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-03
Client ID: CAN 622 SHELF 38
Sample Location:

Date Collected: 03/11/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2413189**Project Number:** CANISTER QC BAT**Report Date:** 04/04/24**Air Canister Certification Results**

Lab ID: L2413189-03

Date Collected: 03/11/24 10:00

Client ID: CAN 622 SHELF 38

Date Received: 03/12/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/12/24 21:36
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
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
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		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
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		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
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		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
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		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
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		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
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		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
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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		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
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2413189**Project Number:** CANISTER QC BAT**Report Date:** 04/04/24**Air Canister Certification Results**

Lab ID: L2413189-06

Date Collected: 03/12/24 10:00

Client ID: CAN 1820 SHELF 43

Date Received: 03/12/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/12/24 21:36
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		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	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2413189
Report Date: 04/04/24

Air Canister Certification Results

Lab ID: L2413189-06
Client ID: CAN 1820 SHELF 43
Sample Location:

Date Collected: 03/12/24 10:00
Date Received: 03/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2413189**Project Number:** CANISTER QC BAT**Report Date:** 04/04/24**Air Canister Certification Results**

Lab ID: L2413189-06

Date Collected: 03/12/24 10:00

Client ID: CAN 1820 SHELF 43

Date Received: 03/12/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	89		60-140



Project Name: ENDZONE
Project Number: 60671903

Serial_No:04042416:58
Lab Number: L2415720
Report Date: 04/04/24

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(*)
L2415720-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2415720-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2415720-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)

Project Name: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

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: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

Data Qualifiers

- 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 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.)

Project Name: ENDZONE
Project Number: 60671903

Lab Number: L2415720
Report Date: 04/04/24

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 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 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 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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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).

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.

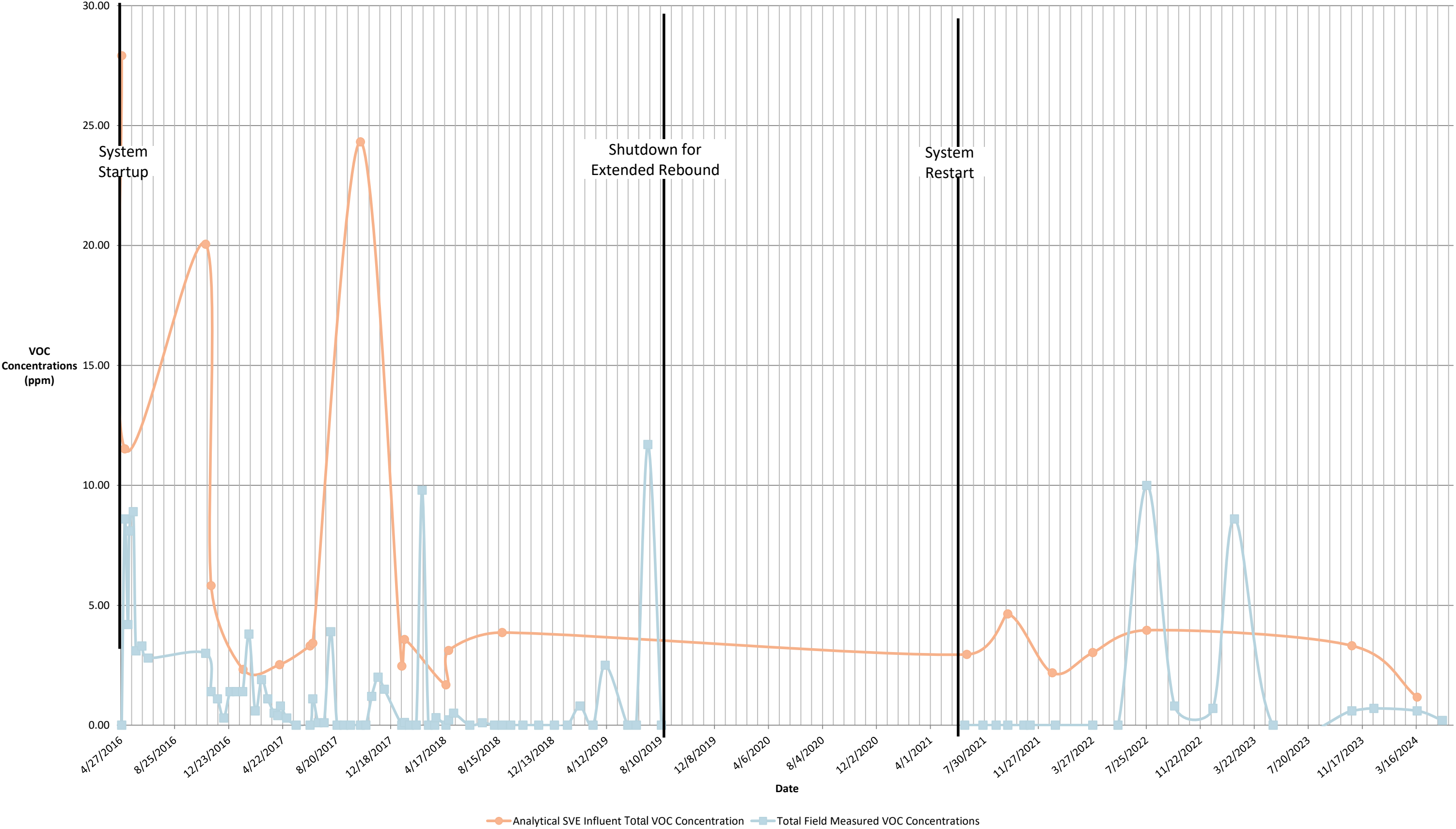
EPA 245.1 Hg.

SM2340B

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

Appendix C
Graphs depicting VOCs Screening and Lab Results – SSD and SVE
Systems

Influent SVE Total VOC Concentrations (ppm) - Field Screening and Laboratory Results



Influent SSD VOC Concentrations (ppm) - Field Screening and Laboratory Results

